

# CPC COOPERATIVE PATENT CLASSIFICATION

## G PHYSICS (NOTES omitted)

### INSTRUMENTS

## G01 MEASURING; TESTING (NOTES omitted)

## G01N INVESTIGATING OR ANALYSING MATERIALS BY DETERMINING THEIR CHEMICAL OR PHYSICAL PROPERTIES (measuring or testing processes other than immunoassay, involving enzymes or microorganisms [C12M](#), [C12Q](#))

### NOTES

1. In this subclass, the following terms are used with the meanings indicated :
  - "investigating" means testing or determining;
  - "materials" includes solid, liquid or gaseous media, e.g. the atmosphere.
2. Attention is drawn to the Notes following the title of class [G01](#).
3. Investigating the properties of materials, specially adapted for use in processes covered by subclass [B23K](#), is classified in group [B23K 31/12](#).

### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

<b>1/00</b>	<b>Sampling; Preparing specimens for investigation</b>	2001/1006	. . . {Dispersed solids}
2001/002	. {Devices for supplying or distributing samples to an analysing apparatus}	2001/1012	. . . . {Suspensions}
2001/005	. . {Packages for mailing or similar transport of samples}	2001/1018	. . . . . {Gas suspensions; Fluidised beds}
2001/007	. . {Devices specially adapted for forensic samples, e.g. tamper-proofing, sample tracking}	2001/1025	. . . . . {Liquid suspensions; Slurries; Mud; Sludge}
1/02	. Devices for withdrawing samples {(sampling of foundation soil <a href="#">E02D 1/04</a> ; collecting or conveying radioactive samples <a href="#">G01T 7/00</a> , e.g. <a href="#">G01T 7/02</a> , <a href="#">G01T 7/08</a> )}	2001/1031	. . . {Sampling from special places}
2001/021	. . {Correlating sampling sites with geographical information, e.g. GPS}	2001/1037	. . . . {from an enclosure (hazardous waste, radioactive)}
2001/022	. . {sampling for security purposes, e.g. contraband, warfare agents}	2001/1043	. . . . {from sewers}
2001/024	. . . {passengers or luggage}	2001/105	. . . . {from high-pressure reactors or lines}
2001/025	. . . {postal items}	2001/1056	. . . {Disposable (single-use) samplers}
2001/027	. . . {field kits / quick test kits}	2001/1062	. . . {Sampling under constant temperature, pressure, or the like}
2001/028	. . {Sampling from a surface, swabbing, vaporising}	2001/1068	. . . . {Cooling sample below melting point}
1/04	. . in the solid state, e.g. by cutting	2001/1075	. . . . {Trapping evaporated liquids by cooling}
2001/045	. . . {Laser ablation; Microwave vaporisation}	2001/1081	. . . . {Storing samples under refrigeration}
1/06	. . . providing a thin slice, e.g. microtome	2001/1087	. . . . {Categories of sampling}
2001/061	. . . . {Blade details}	2001/1093	. . . . {Composite sampling; Cumulative sampling}
2001/063	. . . . . {with sawing action}	1/12	. . . Dippers; Dredgers
2001/065	. . . . . {Drive details}	1/125	. . . . {adapted for sampling molten metals}
2001/066	. . . . . {electric}	1/14	. . . Suction devices, e.g. pumps; Ejector devices
2001/068	. . . . {Illumination means}	1/1409	. . . . {adapted for sampling molten metals}
1/08	. . . involving an extracting tool, e.g. core bit	2001/1418	. . . . {Depression, aspiration}
2001/085	. . . . {Grabs}	2001/1427	. . . . . {Positive displacement, piston, peristaltic}
1/10	. . in the liquid or fluent state {(burettes, pipettes <a href="#">B01L 3/02</a> ; sampling of ground water <a href="#">E02D 1/06</a> ; metering by volume of fluids or fluent solid material <a href="#">G01F 11/00</a> , <a href="#">G01F 13/00</a> )}	2001/1436	. . . . . {Ejector}
		2001/1445	. . . . . {Overpressure, pressurisation at sampling point}
		2001/1454	. . . . . {Positive displacement, piston}
		2001/1463	. . . . . {Injector; Air-lift}
		2001/1472	. . . . . {Devices not actuated by pressure difference}
		2001/1481	. . . . . {Archimedian screw; Auger}

2001/149	. . . . .	{Capillaries; Sponges}	2001/2282	. . . . .	{with cooling means}
1/16	. . .	with provision for intake at several levels ( <a href="#">G01N 1/2035</a> ) <a href="#">G01N 1/12</a> , <a href="#">G01N 1/14</a> take precedence)	2001/2285	. . . . .	{Details of probe structures}
1/18	. . .	with provision for splitting samples into portions ( <a href="#">G01N 1/12</a> , <a href="#">G01N 1/14</a> take precedence; fraction-collection apparatus for chromatography <a href="#">B01D 15/08</a> )	2001/2288	. . . . .	{Filter arrangements}
2001/185	. . . . .	{Conveyor of containers successively filled}	2001/2291	. . . . .	{Movable probes, e.g. swivelling, swinging}
1/20	. . .	for flowing or falling materials ( <a href="#">G01N 1/2035</a> ) <a href="#">G01N 1/12</a> , <a href="#">G01N 1/14</a> take precedence)	1/2294	. . . . .	{Sampling soil gases or the like}
2001/2007	. . . . .	{Flow conveyors}	2001/2297	. . . . .	{Timing devices}
2001/2014	. . . . .	{Pneumatic conveyors}	1/24	. . .	Suction devices ( <a href="#">G01N 1/22</a> - <a href="#">G01N 1/2294</a> take precedence)
2001/2021	. . . . .	{falling under gravity}	2001/241	. . . . .	{Bellows}
2001/2028	. . . . .	{Belts}	2001/242	. . . . .	{Injectors or ejectors}
1/2035	. . . . .	{by deviating part of a fluid stream, e.g. by drawing-off or tapping}	2001/244	. . . . .	{using critical flow orifices}
1/2042	. . . . .	{using a piston actuated by the pressure of the liquid to be sampled}	2001/245	. . . . .	{Fans}
2001/205	. . . . .	{using a valve}	2001/247	. . . . .	{Syringes}
2001/2057	. . . . .	{Sample chamber in a valve/piston}	2001/248	. . . . .	{Evacuated containers}
2001/2064	. . . . .	{using a by-pass loop}	1/26	. . .	with provision for intake from several spaces
2001/2071	. . . . .	{Removable sample bottle}	1/28	. . .	Preparing specimens for investigation {including physical details of (bio-)chemical methods covered elsewhere, e.g. <a href="#">G01N 33/50</a> , <a href="#">C12Q</a> } ( <a href="#">mounting specimens on microscopic slides G02B 21/34</a> ; means for supporting the objects or the materials to be analysed in electron microscopes <a href="#">H01J 37/20</a> (; laboratory gas handling apparatus <a href="#">B01L 5/00</a> )}
2001/2078	. . . . .	{Pre-evacuated bottle}	1/2806	. . .	{Means for preparing replicas of specimens, e.g. for microscopical analysis}
2001/2085	. . . . .	{Non-pre-evacuated septum closed bottles}	1/2813	. . .	{Producing thin layers of samples on a substrate, e.g. smearing, spinning-on ( <a href="#">G01N 1/30</a> takes precedence)}
2001/2092	. . . . .	{Cross-cut sampling}	2001/282	. . . . .	{with mapping; Identification of areas; Spatial correlated pattern}
1/22	. . .	in the gaseous state {(specially adapted for biological material <a href="#">G01N 33/497</a> ; measuring breath flow <a href="#">A61B 5/087</a> )}	2001/2826	. . . . .	{Collecting by adsorption or absorption}
1/2202	. . .	{involving separation of sample components during sampling}	2001/2833	. . . . .	{Collecting samples on a sticky, tacky, adhesive surface}
1/2205	. . . . .	{with filters}	2001/284	. . . . .	{using local activation of adhesive, i.e. Laser Capture Microdissection}
1/2208	. . . . .	{with impactors}	2001/2846	. . . . .	{Cytocentrifuge method}
1/2211	. . . . .	{with cyclones}	1/2853	. . .	{Shadowing samples}
1/2214	. . . . .	{by sorption}	1/286	. . .	{involving mechanical work, e.g. chopping, disintegrating, compacting, homogenising (microtomes <a href="#">G01N 1/06</a> ; pulverising in general <a href="#">B02C</a> ; mixing in general <a href="#">B01F</a> )}
2001/2217	. . . . .	{using a liquid}	2001/2866	. . . . .	{Grinding or homogeneising}
2001/222	. . . . .	{Other features}	2001/2873	. . . . .	{Cutting or cleaving}
2001/2223	. . . . .	{aerosol sampling devices}	2001/288	. . . . .	{Filter punches}
1/2226	. . .	{Sampling from a closed space, e.g. food package, head space}	2001/2886	. . . . .	{Laser cutting, e.g. tissue catapult}
2001/2229	. . . . .	{Headspace sampling, i.e. vapour over liquid}	2001/2893	. . .	{Preparing calibration standards}
2001/2232	. . . . .	{using a membrane, i.e. pervaporation}	1/30	. . .	Staining; Impregnating (; Fixation; Dehydration; Multistep processes for preparing samples of tissue, cell or nucleic acid material and the like for analysis)
2001/2235	. . . . .	{over a melt, e.g. furnace}	2001/302	. . . . .	{Stain compositions}
2001/2238	. . . . .	{the gas being compressed or pressurized}	2001/305	. . . . .	{Fixative compositions}
2001/2241	. . . . .	{purpose-built sampling enclosure for emissions}	2001/307	. . . . .	{non-toxic, no Hg, no formaldehyde}
2001/2244	. . . . .	{Exhaled gas, e.g. alcohol detecting}	1/31	. . .	Apparatus therefor
1/2247	. . .	{Sampling from a flowing stream of gas}	1/312	. . . . .	{for samples mounted on planar substrates}
2001/225	. . . . .	{isokinetic, same flow rate for sample and bulk gas}	2001/315	. . . . .	{Basket-type carriers for tissues}
1/2252	. . . . .	{in a vehicle exhaust}	2001/317	. . . . .	{spraying liquids onto surfaces}
2001/2255	. . . . .	{with dilution of the sample}	1/32	. . .	Polishing; Etching
1/2258	. . . . .	{in a stack or chimney}	1/34	. . .	Purifying; Cleaning {(processes or apparatus for extracting or separating nucleic acids from biological samples <a href="#">C12N 15/1003</a> )}
2001/2261	. . . . .	{preventing condensation (heating lines)}	1/36	. . .	Embedding or analogous mounting of samples
2001/2264	. . . . .	{with dilution}	2001/362	. . . . .	{using continuous plastic film to mount sample}
2001/2267	. . . . .	{separating gas from liquid, e.g. bubbles}			
2001/227	. . . . .	{separating gas from solid, e.g. filter}			
1/2273	. . .	{Atmospheric sampling}			
2001/2276	. . . . .	{Personal monitors}			
2001/2279	. . . . .	{high altitude, e.g. rockets, balloons}			

2001/364	. . . {using resins, epoxy}	3/12	. . . Pressure testing
2001/366	. . . {Moulds; Demoulding}	3/14	. . generated by dead weight, e.g. pendulum; generated by springs tension ( <a href="#">G01N 3/18 takes precedence</a> )
2001/368	. . . {Mounting multiple samples in one block, e.g. TMA [Tissue Microarrays]}	3/16	. . applied through gearing ( <a href="#">G01N 3/18 takes precedence</a> )
1/38	. . Diluting, dispersing or mixing samples	3/165	. . . {generated by rotation, i.e. centrifugal force (for testing structures or apparatus <a href="#">G01M 99/004</a> )}
2001/381	. . . {by membrane diffusion; Permeation tubes}	3/18	. . Performing tests at high or low temperatures
2001/382	. . . {using pistons of different sections}	3/20	. by applying steady bending forces ( <a href="#">G01N 3/26</a> , <a href="#">G01N 3/28 take precedence</a> )
2001/383	. . . {collecting and diluting in a flow of liquid}	3/22	. by applying steady torsional forces ( <a href="#">G01N 3/26</a> , <a href="#">G01N 3/28 take precedence</a> )
2001/385	. . . {diluting by adsorbing a fraction of the sample}	3/24	. by applying steady shearing forces ( <a href="#">G01N 3/26</a> , <a href="#">G01N 3/28 take precedence</a> )
2001/386	. . . {Other diluting or mixing processes}	3/26	. Investigating twisting or coiling properties
2001/387	. . . . {mixing by blowing a gas, bubbling}	3/28	. Investigating ductility, e.g. suitability of sheet metal for deep-drawing or spinning
2001/388	. . . . {mixing the sample with a tracer}	3/30	. by applying a single impulsive force, e.g. by falling weight
1/40	. . Concentrating samples	3/303	. . generated only by free-falling weight
1/4005	. . . {by transferring a selected component through a membrane}	3/307	. . generated by a compressed or tensile-stressed spring; generated by pneumatic or hydraulic means
2001/4011	. . . . {being a ion-exchange membrane}	3/31	. . generated by a rotating fly-wheel
2001/4016	. . . . {being a selective membrane, e.g. dialysis or osmosis}	3/313	. . generated by explosives
1/4022	. . . {by thermal techniques; Phase changes}	3/317	. . generated by electromagnetic means
2001/4027	. . . . {evaporation leaving a concentrated sample}	3/32	. by applying repeated or pulsating forces
2001/4033	. . . . {sample concentrated on a cold spot, e.g. condensation or distillation}	3/34	. . generated by mechanical means, e.g. hammer blows
2001/4038	. . . {electric methods, e.g. electromigration, electrophoresis, ionisation}	3/36	. . generated by pneumatic or hydraulic means
1/4044	. . . {by chemical techniques; Digestion; Chemical decomposition}	3/38	. . generated by electromagnetic means
1/405	. . . {by adsorption or absorption}	3/40	. Investigating hardness or rebound hardness
1/4055	. . . {by solubility techniques}	3/405	. . {by determining the vibration frequency of a sensing element in contact with the specimen}
2001/4061	. . . . {Solvent extraction}	3/42	. . by performing impressions under a steady load by indentors, e.g. sphere, pyramid ( <a href="#">G01N 3/54 takes precedence</a> )
2001/4066	. . . . {using difference of solubility between liquid and gas, e.g. bubbling, scrubbing or sparging}	3/44	. . . the indentors being put under a minor load and a subsequent major load, i.e. Rockwell system
2001/4072	. . . . {membraneless transfer of a component between two parallel laminar flows of fluid}	3/46	. . . the indentors performing a scratching movement
1/4077	. . . {by other techniques involving separation of suspended solids}	3/48	. . by performing impressions under impulsive load by indentors, e.g. falling ball ( <a href="#">G01N 3/54 takes precedence</a> )
2001/4083	. . . . {sedimentation}	3/50	. . by measuring rolling friction, e.g. by rocking pendulum ( <a href="#">G01N 3/54 takes precedence</a> )
2001/4088	. . . . {filtration}	3/52	. . by measuring extent of rebound of a striking body ( <a href="#">G01N 3/54 takes precedence</a> )
2001/4094	. . . . {using ultrasound}	3/54	. . Performing tests at high or low temperatures
1/42	. . Low-temperature sample treatment, e.g. cryofixation	3/56	. Investigating resistance to wear or abrasion
1/44	. . Sample treatment involving radiation, e.g. heat	3/562	. . {using radioactive tracers}
<b>3/00</b>	<b>Investigating strength properties of solid materials by application of mechanical stress</b>	3/565	. . {of granular or particulate material}
	<b>NOTE</b>	3/567	. . {by submitting the specimen to the action of a fluid or of a fluidised material, e.g. cavitation, jet abrasion ( <a href="#">G01N 3/565 takes precedence</a> )}
	This group covers the stressing of materials not only below but also beyond the elastic limit, e.g. until breaking occurs.	3/58	. Investigating machinability by cutting tools; Investigating the cutting ability of tools
3/02	. Details	3/60	. Investigating resistance of materials, e.g. refractory materials, to rapid heat changes {(thermal testing of structures or apparatus <a href="#">G01M 99/002</a> )}
3/04	. . Chucks		
3/06	. . Special adaptations of indicating or recording means		
3/062	. . . {with mechanical indicating or recording means}		
3/064	. . . {with hydraulic indicating or recording means}		
3/066	. . . {with electrical indicating or recording means}		
3/068	. . . {with optical indicating or recording means}		
3/08	. by applying steady tensile or compressive forces ( <a href="#">G01N 3/28 takes precedence</a> )		
3/10	. . generated by pneumatic or hydraulic pressure ( <a href="#">G01N 3/18 takes precedence</a> )		

3/62	<ul style="list-style-type: none"> <li>Manufacturing, calibrating, or repairing devices used in investigations covered by the preceding subgroups</li> </ul>	9/12	<ul style="list-style-type: none"> <li>by observing the depth of immersion of the bodies, e.g. hydrometers</li> </ul>
<b>5/00</b>	<b>Analysing materials by weighing, e.g. weighing small particles separated from a gas or liquid</b> ( <a href="#">G01N 9/00</a> takes precedence <a href="#">; weighing per se G01G</a> )	9/14	<ul style="list-style-type: none"> <li>the body being built into a container</li> </ul>
5/02	<ul style="list-style-type: none"> <li>by absorbing or adsorbing components of a material and determining change of weight of the adsorbent, e.g. determining moisture content <a href="#">{(absorption bulbs B01D 53/00)}</a></li> </ul>	9/16	<ul style="list-style-type: none"> <li>the body being pivoted</li> </ul>
5/025	<ul style="list-style-type: none"> <li><a href="#">{for determining moisture content}</a></li> </ul>	9/18	<ul style="list-style-type: none"> <li>Special adaptations for indicating, recording, or control</li> </ul>
5/04	<ul style="list-style-type: none"> <li>by removing a component, e.g. by evaporation, and weighing the remainder</li> </ul>	9/20	<ul style="list-style-type: none"> <li>by balancing the weight of the bodies</li> </ul>
5/045	<ul style="list-style-type: none"> <li><a href="#">{for determining moisture content}</a></li> </ul>	9/22	<ul style="list-style-type: none"> <li>with continuous circulation of the fluid</li> </ul>
<b>7/00</b>	<b>Analysing materials by measuring the pressure or volume of a gas or vapour</b>	9/24	<ul style="list-style-type: none"> <li>by observing the transmission of wave or particle radiation through the material</li> </ul>
7/02	<ul style="list-style-type: none"> <li>by absorption, adsorption, or combustion of components and measurement of the change in pressure or volume of the remainder <a href="#">{(absorption bulbs B01D 53/00)}</a></li> </ul>	9/26	<ul style="list-style-type: none"> <li>by measuring pressure differences</li> </ul>
7/04	<ul style="list-style-type: none"> <li>by absorption or adsorption alone</li> </ul>	2009/263	<ul style="list-style-type: none"> <li><a href="#">{using vertically-movable pressure transducer}</a></li> </ul>
7/06	<ul style="list-style-type: none"> <li>by combustion alone</li> </ul>	9/266	<ul style="list-style-type: none"> <li><a href="#">{for determining gas density}</a></li> </ul>
7/08	<ul style="list-style-type: none"> <li>by combustion followed by absorption or adsorption of the combustion products</li> </ul>	9/28	<ul style="list-style-type: none"> <li>by measuring the blowing pressure of gas bubbles escaping from nozzles at different depths in a liquid</li> </ul>
7/10	<ul style="list-style-type: none"> <li>by allowing diffusion of components through a porous wall and measuring a pressure or volume difference</li> </ul>	9/30	<ul style="list-style-type: none"> <li>by using centrifugal effects</li> </ul>
7/12	<ul style="list-style-type: none"> <li>the diffusion being followed by combustion or catalytic oxidation</li> </ul>	9/32	<ul style="list-style-type: none"> <li>by using flow properties of fluids, e.g. flow through tubes or apertures</li> </ul>
7/14	<ul style="list-style-type: none"> <li>by allowing the material to emit a gas or vapour, e.g. water vapour, and measuring a pressure or volume difference <a href="#">{(determining urea G01N 33/48742)}</a></li> </ul>	9/34	<ul style="list-style-type: none"> <li>by using elements moving through the fluid, e.g. vane</li> </ul>
7/16	<ul style="list-style-type: none"> <li>by heating the material</li> </ul>	9/36	<ul style="list-style-type: none"> <li>Analysing materials by measuring the density or specific gravity, e.g. determining quantity of moisture <a href="#">(methods of measurement in general G01N 9/02 - G01N 9/32)</a></li> </ul>
7/18	<ul style="list-style-type: none"> <li>by allowing the material to react</li> </ul>	<b>11/00</b>	<b>Investigating flow properties of materials, e.g. viscosity, plasticity; Analysing materials by determining flow properties</b>
7/20	<ul style="list-style-type: none"> <li>the reaction being fermentation</li> </ul>	2011/0006	<ul style="list-style-type: none"> <li><a href="#">{Calibrating, controlling or cleaning viscometers}</a></li> </ul>
7/22	<ul style="list-style-type: none"> <li>of dough</li> </ul>	2011/0013	<ul style="list-style-type: none"> <li><a href="#">{Temperature compensation}</a></li> </ul>
<b>9/00</b>	<b>Investigating density or specific gravity of materials; Analysing materials by determining density or specific gravity</b>	2011/002	<ul style="list-style-type: none"> <li><a href="#">{Controlling sample temperature; Thermal cycling during measurement}</a></li> </ul>
9/002	<ul style="list-style-type: none"> <li><a href="#">{using variation of the resonant frequency of an element vibrating in contact with the material submitted to analysis (G01N 9/34 takes precedence)}</a></li> </ul>	2011/0026	<ul style="list-style-type: none"> <li><a href="#">{Investigating specific flow properties of non-Newtonian fluids}</a></li> </ul>
2009/004	<ul style="list-style-type: none"> <li><a href="#">{comparing frequencies of two elements}</a></li> </ul>	2011/0033	<ul style="list-style-type: none"> <li><a href="#">{Yield stress; Residual stress at zero shear rate}</a></li> </ul>
2009/006	<ul style="list-style-type: none"> <li><a href="#">{vibrating tube, tuning fork}</a></li> </ul>	2011/004	<ul style="list-style-type: none"> <li><a href="#">{Stress relaxation time}</a></li> </ul>
2009/008	<ul style="list-style-type: none"> <li><a href="#">{Schlatter vibrating vane type}</a></li> </ul>	2011/0046	<ul style="list-style-type: none"> <li><a href="#">{In situ measurement during mixing process}</a></li> </ul>
9/02	<ul style="list-style-type: none"> <li>by measuring weight of a known volume</li> </ul>	2011/0053	<ul style="list-style-type: none"> <li><a href="#">{using ergometry; measuring power consumption}</a></li> </ul>
2009/022	<ul style="list-style-type: none"> <li><a href="#">{of solids}</a></li> </ul>	2011/006	<ul style="list-style-type: none"> <li><a href="#">{Determining flow properties indirectly by measuring other parameters of the system}</a></li> </ul>
2009/024	<ul style="list-style-type: none"> <li><a href="#">{the volume being determined directly, e.g. by size of container}</a></li> </ul>	2011/0066	<ul style="list-style-type: none"> <li><a href="#">{electrical properties}</a></li> </ul>
2009/026	<ul style="list-style-type: none"> <li><a href="#">{the volume being determined by amount of fluid displaced}</a></li> </ul>	2011/0073	<ul style="list-style-type: none"> <li><a href="#">{acoustic properties}</a></li> </ul>
2009/028	<ul style="list-style-type: none"> <li><a href="#">{a gas being used as displacement fluid}</a></li> </ul>	2011/008	<ul style="list-style-type: none"> <li><a href="#">{optical properties}</a></li> </ul>
9/04	<ul style="list-style-type: none"> <li>of fluids</li> </ul>	2011/0086	<ul style="list-style-type: none"> <li><a href="#">{magnetic properties}</a></li> </ul>
9/06	<ul style="list-style-type: none"> <li>with continuous circulation through a pivotally supported member</li> </ul>	2011/0093	<ul style="list-style-type: none"> <li><a href="#">{thermal properties}</a></li> </ul>
9/08	<ul style="list-style-type: none"> <li>by measuring buoyant force of solid materials by weighing both in air and in a liquid</li> </ul>	11/02	<ul style="list-style-type: none"> <li>by measuring flow of the material</li> </ul>
9/10	<ul style="list-style-type: none"> <li>by observing bodies wholly or partially immersed in fluid materials</li> </ul>	11/04	<ul style="list-style-type: none"> <li>through a restricted passage, e.g. tube, aperture</li> </ul>
		11/06	<ul style="list-style-type: none"> <li>by timing the outflow of a known quantity</li> </ul>
		11/08	<ul style="list-style-type: none"> <li>by measuring pressure required to produce a known flow</li> </ul>
		11/10	<ul style="list-style-type: none"> <li>by moving a body within the material</li> </ul>
		11/105	<ul style="list-style-type: none"> <li><a href="#">{by detecting the balance position of a float moving in a duct conveying the fluid under test}</a></li> </ul>
		11/12	<ul style="list-style-type: none"> <li>by measuring rising or falling speed of the body; by measuring penetration of wedged gauges <a href="#">(G01N 11/16 takes precedence)</a></li> </ul>
		11/14	<ul style="list-style-type: none"> <li>by using rotary bodies, e.g. vane <a href="#">(G01N 11/16 takes precedence)</a></li> </ul>
		11/142	<ul style="list-style-type: none"> <li><a href="#">{Sample held between two members substantially perpendicular to axis of rotation, e.g. parallel plate viscometer}</a></li> </ul>
		2011/145	<ul style="list-style-type: none"> <li><a href="#">{both members rotating}</a></li> </ul>



- 2011/147 . . . {Magnetic coupling}
- 11/16 . . by measuring damping effect upon oscillatory body
- 11/162 . . . {Oscillations being torsional, e.g. produced by rotating bodies}
- 11/165 . . . . {Sample held between two members substantially perpendicular to axis of rotation, e.g. parallel plate viscometer}
- 11/167 . . . . {Sample holder oscillates, e.g. rotating crucible}
- 13/00 Investigating surface or boundary effects, e.g. wetting power; Investigating diffusion effects; Analysing materials by determining surface, boundary, or diffusion effects (scanning-probe techniques or apparatus G01Q)**
- 2013/003 . {Diffusion; diffusivity between liquids}
- 2013/006 . {Dissolution of tablets or the like}
- 13/02 . Investigating surface tension of liquids
- 2013/0208 . . {by measuring contact angle}
- 2013/0216 . . {by measuring skin friction or shear force}
- 2013/0225 . . {of liquid metals or solder}
- 2013/0233 . . {Langmuir troughs; thin-film balances}
- 2013/0241 . . {bubble, pendant drop, sessile drop methods}
- 2013/025 . . . {Measuring foam stability}
- 2013/0258 . . . {Oscillating drop methods}
- 2013/0266 . . . {Bubble methods}
- 2013/0275 . . {involving surface-active agents}
- 2013/0283 . . {methods of calculating surface tension}
- 2013/0291 . . {Wilhelmy plate}
- 13/04 . Investigating osmotic effects
- 15/00 Investigating characteristics of particles; Investigating permeability, pore-volume or surface-area of porous materials (identification of microorganisms C12Q)**
- 2015/0003 . {Determining electric mobility, velocity profile, average speed or velocity of a plurality of particles}
- 2015/0007 . {Investigating dispersion of gas}
- 2015/0011 . . {in liquids, e.g. bubbles}
- 2015/0015 . . {in solids}
- 2015/0019 . {Means for transferring or separating particles prior to analysis, e.g. hoppers or particle conveyors}
- 2015/0023 . {Investigating dispersion of liquids}
- 2015/0026 . . {in gas, e.g. fog}
- 2015/003 . . {in liquids, e.g. emulsion}
- 2015/0034 . . {in solids}
- 2015/0038 . {Investigating nanoparticles}
- 2015/0042 . {Investigating dispersion of solids}
- 2015/0046 . . {in gas, e.g. smoke}
- 2015/0049 . . . {of filaments in gas}
- 2015/0053 . . {in liquids, e.g. trouble}
- 2015/0057 . . . {of filaments in liquids}
- 2015/0061 . . {in solids, e.g. petrography}
- 2015/0092 . {Monitoring flocculation or agglomeration}
- 2015/0096 . {Investigating consistence of powders, dustability, dustiness}
- 15/01 . specially adapted for biological cells, e.g. blood cells (investigating sedimentation of particle suspensions in blood G01N 15/05)
- 2015/011 . . {with lysing, e.g. of erythrocytes}
- 2015/012 . . {Red blood cells}
- 2015/014 . . . {Reticulocytes}
- 2015/016 . . {White blood cells}
- 2015/018 . . {Platelets}
- 2015/019 . . {Biological contaminants; Fouling}
- 15/02 . Investigating particle size or size distribution (by measuring osmotic pressure G01N 7/10; investigating sedimentation of particle suspensions G01N 15/04; investigating individual particles G01N 15/10)
- 15/0205 . . by optical means
- 15/0211 . . . {Investigating a scatter or diffraction pattern}
- 2015/0216 . . . . {from fluctuations of diffraction pattern}
- 2015/0222 . . . . {from dynamic light scattering, e.g. photon correlation spectroscopy}
- 15/0227 . . . using imaging; using holography
- 2015/0233 . . . . {using holography}
- 2015/0238 . . . {Single particle scatter}
- 2015/0244 . . . {with cutting-out molecular scatter}
- 2015/025 . . . {Methods for single or grouped particles}
- 15/0255 . . {with mechanical, e.g. inertial, classification, and investigation of sorted collections (with centrifuges G01N 15/042)}
- 2015/0261 . . . {using impactors}
- 15/0266 . . {with electrical classification}
- 15/0272 . . {with screening; with classification by filtering (B01D takes precedence)}
- 2015/0277 . . {Average size only}
- 2015/0283 . . {using control of suspension concentration}
- 2015/0288 . . {Sorting the particles}
- 2015/0294 . . {Particle shape}
- 2015/03 . {Electro-optical investigation of a plurality of particles, the analyser being characterised by the optical arrangement}
- 2015/035 . . {the optical arrangement forming an integrated apparatus with the sample container}
- 15/04 . Investigating sedimentation of particle suspensions
- 15/042 . . {by centrifuging and investigating centrifugates (centrifuges per se B04B)}
- 2015/045 . . . {by optical analysis}
- 2015/047 . . . . {by static multidetectors}
- 15/05 . . in blood
- 2015/055 . . . {for hematocrite determination}
- 15/06 . Investigating concentration of particle suspensions (by weighing G01N 5/00; investigating sedimentation of particle suspensions G01N 15/04; investigating individual particles G01N 15/10)
- NOTE**
- References listed below indicate CPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group and its subgroups:
  - Investigating or analysing materials;
  - by the use of optical means: G01N 21/00, e.g. G01N 21/47, G01N 21/90;
  - by other radiations or by particles: G01N 23/00, e.g. G01N 23/02, G01N 23/201;
  - by measuring impedance: G01N 27/02, e.g. G01N 27/06, G01N 27/22;
  - by electrochemical means: G01N 27/00, e.g. G01N 27/26;
  - by measuring absorption of sonic or ultrasonic vibrations: G01N 29/00, e.g. G01N 29/02
- 15/0606 . . {by collecting particles on a support}

15/0612	. . . {Optical scan of the deposits ( <a href="#">G01N 15/0625 takes precedence</a> )}	2015/1029	. . . {Particle size}
15/0618	. . . {of the filter type ( <a href="#">G01N 15/0643 takes precedence</a> )}	2015/103	. . . {Particle shape}
15/0625	. . . . {Optical scan of the deposits}	15/1031	. . . by measuring electrical or magnetic effects
15/0631	. . . . {Separation of liquids, e.g. by absorption, wicking}	15/12	. . . by observing changes in resistance or impedance across apertures when traversed by individual particles, e.g. by using the Coulter principle
15/0637	. . . {Moving support}	15/13	. . . . Details pertaining to apertures
15/0643	. . . . {of the filter type}	15/131	. . . . {Details ( <a href="#">G01N 15/13 takes precedence</a> )}
15/065	. . {using condensation nuclei counters}	15/132	. . . . . {Circuits}
15/0656	. . {using electric, e.g. electrostatic methods or magnetic methods ( <a href="#">by investigating individual particles G01N 15/1031, G01N 15/12</a> )}	2015/133	. . . . . {Flow forming}
2015/0662	. . {Comparing before/after passage through filter}	15/134	. . . . . {Devices using two or more apertures}
2015/0668	. . {Comparing properties of sample and carrier fluid, e.g. oil in water}	2015/135	. . . . . {Electrodes}
2015/0675	. . {Comparing suspension before/after dilution}	2015/136	. . . . . {Scanning electrodes}
2015/0681	. . {Purposely modifying particles, e.g. humidifying for growing}	2015/137	. . . . . {Cleaning}
2015/0687	. . {in solutions, e.g. non volatile residue}	2015/138	. . . . . {Detecting blocking debris}
15/075	. . by optical means	2015/139	. . . . . {Measuring the ratio of AC/DC impedances}
15/08	. Investigating permeability, pore-volume, or surface area of porous materials	15/14	. . Optical investigation techniques, e.g. flow cytometry
15/0806	. . {Details, e.g. sample holders, mounting samples for testing}	2015/1402	. . . {Data analysis by thresholding or gating operations performed on the acquired signals or stored data}
2015/0813	. . {Measuring intrusion, e.g. of mercury}	15/1404	. . . Handling flow, e.g. hydrodynamic focusing
15/082	. . {Investigating permeability by forcing a fluid through a sample}	2015/1406	. . . . {Control of droplet point}
15/0826	. . . {and measuring fluid flow rate, i.e. permeation rate or pressure change}	15/1409	. . . . Handling samples, e.g. injecting samples
2015/0833	. . {Pore surface area}	2015/1411	. . . . . {Features of sheath fluids}
2015/084	. . {Testing filters}	2015/1413	. . . . . {Hydrodynamic focussing}
2015/0846	. . {by use of radiation, e.g. transmitted or reflected light}	2015/1415	. . . . . {Control of particle position}
2015/0853	. . {by electrical capacitance measurement}	2015/1418	. . . . . {Eliminating clogging of debris}
2015/086	. . {of films, membranes or pellicules}	2015/142	. . . . . {Acoustic or ultrasonic focussing}
2015/0866	. . {Sorption}	2015/1422	. . . . . {Electrical focussing}
2015/0873	. . . {Dynamic sorption, e.g. with flow control means}	15/1425	. . . {using an analyser being characterised by its control arrangement}
15/088	. . {Investigating volume, surface area, size or distribution of pores; Porosimetry}	15/1427	. . . . {with the synchronisation of components, a time gate for operation of components, or suppression of particle coincidences}
15/0886	. . . {Mercury porosimetry}	15/1429	. . . Signal processing
15/0893	. . . {by measuring weight or volume of sorbed fluid, e.g. B.E.T. method}	15/1431	. . . . {the electronics being integrated with the analyser, e.g. hand-held devices for on-site investigation}
15/10	. Investigating individual particles	15/1433	. . . . . using image recognition
2015/1006	. . {for cytology}	15/1434	. . . Optical arrangements
15/1012	. . {Calibrating particle analysers; References therefor}	15/1436	. . . . {the optical arrangement forming an integrated apparatus with the sample container, e.g. a flow cell}
2015/1014	. . . {Constitution of reference particles}	2015/1438	. . . . . {Using two lasers in succession}
2015/1016	. . . {Particle flow simulating, e.g. liquid crystal cell}	2015/144	. . . . . {Imaging characterised by its optical setup}
2015/1019	. . {Associating Coulter-counter and optical flow cytometer [OFC]}	2015/1443	. . . . . {Auxiliary imaging}
2015/1021	. . {Measuring mass of individual particles}	2015/1445	. . . . . {Three-dimensional imaging, imaging in different image planes, e.g. under different angles or at different depths, e.g. by a relative motion of sample and detector, for instance by tomography}
2015/1022	. . {Measurement of deformation of individual particles by non-optical means}	2015/1447	. . . . . {Spatial selection}
15/1023	. . {Microstructural devices for non-optical measurement}	2015/145	. . . . . {by pattern of light, e.g. fringe pattern}
2015/1024	. . {Counting particles by non-optical means}	2015/1452	. . . . . {Adjustment of focus; Alignment}
2015/1026	. . {Recognising analyser failures, e.g. bubbles; Quality control for particle analysers}	2015/1454	. . . . . {using phase shift or interference, e.g. for improving contrast}
2015/1027	. . {Determining speed or velocity of a particle}	15/1456	. . . {without spatial resolution of the texture or inner structure of the particle, e.g. processing of pulse signals}
2015/1028	. . {Sorting particles}	15/1459	. . . . {the analysis being performed on a sample stream}

- 2015/1461 . . . . {Coincidence detecting; Circuits therefor}  
 15/1468 . . . {with spatial resolution of the texture or inner structure of the particle}

**NOTE**

{References listed below indicate CPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:

- counting objects disposed at random with size distinction [G06M 11/04](#)
- extraction of features from image for pattern recognition [G06V 10/40](#)
- specific image analysis method for the recognition of microscopic objects [G06V 20/69](#)
- image enhancement [G06T 5/00](#)
- image analysis [G06T 7/00](#)

- 15/147 . . . . {the analysis being performed on a sample stream}  
 2015/1472 . . . . {with colour}  
 2015/1477 . . . {Multiparameters}  
 2015/1479 . . . . {Using diffuse illumination or excitation}  
 2015/1481 . . . {Optical analysis of particles within droplets (sorting particles within droplets [G01N 15/1492](#))}

**WARNING**

Group [G01N 2015/1481](#) is impacted by reclassification into group [G01N 15/1492](#).

Groups [G01N 2015/1481](#) and [G01N 15/1492](#) should be considered in order to perform a complete search.

- 15/1484 . . . {microstructural devices}  
 2015/1486 . . . {Counting the particles}  
 2015/1488 . . . {Methods for deciding}  
 15/149 . . . specially adapted for sorting particles, e.g. by their size or optical properties  
 15/1492 . . . . within droplets

**WARNING**

Group [G01N 15/1492](#) is incomplete pending reclassification of documents from group [G01N 2015/1481](#).

Groups [G01N 2015/1481](#) and [G01N 15/1492](#) should be considered in order to perform a complete search.

- 2015/1493 . . . {Particle size}  
 2015/1495 . . . . {Deformation of particles}  
 2015/1497 . . . {Particle shape}

**17/00 Investigating resistance of materials to the weather, to corrosion, or to light**

- 17/002 . {Test chambers}  
 17/004 . {to light}  
 17/006 . {of metals}  
 17/008 . {Monitoring fouling}  
 17/02 . Electrochemical measuring systems for weathering, corrosion or corrosion-protection measurement  
 17/04 . Corrosion probes  
 17/043 . . {Coupons}

- 17/046 . . . {Means for supporting or introducing coupons}

**19/00 Investigating materials by mechanical methods**  
([G01N 3/00](#) - [G01N 17/00](#) take precedence)

- 19/02 . Measuring coefficient of friction between materials  
 {(testing of tyres [G01M 17/02](#); determinations of friction coefficient used in vehicle braking or traction control systems [B60T 8/172](#))}  
 19/04 . Measuring adhesive force between materials, e.g. of sealing tape, of coating  
 19/06 . Investigating by removing material, e.g. spark-testing  
 19/08 . Detecting presence of flaws or irregularities  
 19/10 . Measuring moisture content, e.g. by measuring change in length of hygroscopic filament; Hygrometers

**21/00 Investigating or analysing materials by the use of optical means, i.e. using sub-millimetre waves, infrared, visible or ultraviolet light**  
([G01N 3/00](#) - [G01N 19/00](#) take precedence)**NOTE**

This group does not cover the investigation of spectral properties of light per se, or measurements of the properties of materials where spectral properties of light are sensed and primary emphasis is placed on creating, detecting or analysing the spectrum providing that the properties of the materials to be investigated are of minor importance. Those subjects are covered by group [G01J 3/00](#).

- 21/01 . Arrangements or apparatus for facilitating the optical investigation  
 2021/0106 . . {General arrangement of respective parts}  
 2021/0112 . . . {Apparatus in one mechanical, optical or electronic block}  
 2021/0118 . . . {Apparatus with remote processing}  
 2021/0125 . . . . {with stored program or instructions}  
 2021/0131 . . . . . {being externally stored}  
 2021/0137 . . . . {with PC or the like}  
 2021/0143 . . . . {with internal and external computer}  
 2021/015 . . . {Apparatus with interchangeable optical heads or interchangeable block of optics and detector}  
 2021/0156 . . . . {with optics only in separate head, e.g. connection by optical fibres}  
 2021/0162 . . {using microprocessors for control of a sequence of operations, e.g. test, powering, switching, processing}  
 2021/0168 . . . {for the measurement cycle}  
 2021/0175 . . . {for selecting operating means}  
 2021/0181 . . {Memory or computer-assisted visual determination}  
 2021/0187 . . {Mechanical sequence of operations}  
 2021/0193 . . {the sample being taken from a stream or flow to the measurement cell}  
 21/03 . . Cuvette constructions  
 21/0303 . . . {Optical path conditioning in cuvettes, e.g. windows; adapted optical elements or systems; path modifying or adjustment ([G01N 21/031](#) - [G01N 21/15](#) take precedence)}  
 2021/0307 . . . . {Insert part in cell}  
 21/031 . . . {Multipass arrangements}  
 2021/0314 . . . . {Double pass, autocollimated path}

21/0317	. . . {High pressure cuvettes; <a href="#">(G01N 21/0332 - G01N 21/15 take precedence)</a> }	21/1702	. . {with opto-acoustic detection, e.g. for gases or analysing solids}
2021/0321	. . . {One time use cells, e.g. integrally moulded}	2021/1704	. . . {in gases}
2021/0325	. . . {Cells for testing reactions, e.g. containing reagents}	2021/1706	. . . {in solids}
2021/0328	. . . . {Arrangement of two or more cells having different functions for the measurement of reactions}	2021/1708	. . . {with piezotransducers <a href="#">(probes for investigating or analysing materials by the use of ultrasonic, sonic or infrasonic waves G01N 29/24)</a> }
21/0332	. . . {with temperature control <a href="#">(control of temperature G05D 23/00; cryostats F17C 3/08)</a> }	21/171	. . {with calorimetric detection, e.g. with thermal lens detection}
2021/0335	. . . . {Refrigeration of cells; Cold stages}	2021/1712	. . . {Thermal lens, mirage effect}
2021/0339	. . . {Holders for solids, powders}	2021/1714	. . . {Photothermal radiometry with measurement of emission}
2021/0342	. . . {Solid sample being immersed, e.g. equiindex fluid}	21/1717	. . {with a modulation of one or more physical properties of the sample during the optical investigation, e.g. electro-reflectance}
2021/0346	. . . {Capillary cells; Microcells}	2021/1719	. . . {Carrier modulation in semiconductors}
2021/035	. . . . {Supports for sample drops}	2021/1721	. . . {Electromodulation}
2021/0353	. . . . . {Conveyor of successive sample drops}	2021/1723	. . . {Fluid modulation}
2021/0357	. . . {Sets of cuvettes}	2021/1725	. . . {Modulation of properties by light, e.g. photorefectance}
2021/036	. . . {transformable, modifiable}	2021/1727	. . . {Magnetomodulation}
2021/0364	. . . {flexible, compressible}	2021/1729	. . . {Piezomodulation}
2021/0367	. . . {Supports of cells, e.g. pivotable}	2021/1731	. . . {Temperature modulation}
2021/0371	. . . . {Supports combined with sample intake}	2021/1734	. . {Sequential different kinds of measurements; Combining two or more methods}
2021/0375	. . . . {Slidable cells}	2021/1736	. . . {with two or more light sources}
2021/0378	. . . {Shapes}	2021/1738	. . {Optionally different kinds of measurements; Method being valid for different kinds of measurement}
2021/0382	. . . . {Frustoconical, tapered cell}	2021/174	. . . {either absorption-reflection or emission-fluorescence}
2021/0385	. . . {Diffusing membrane; Semipermeable membrane}	2021/1742	. . . {either absorption or reflection}
2021/0389	. . . {Windows}	2021/1744	. . . {either absorption or scatter}
2021/0392	. . . . {Nonplanar windows}	2021/1746	. . {Method using tracers}
2021/0396	. . . . {Oblique incidence}	2021/1748	. . {Comparative step being essential in the method}
21/05	. . . Flow-through cuvettes <a href="#">(G01N 21/09 takes precedence; handling fluid samples G01N 1/10)</a>	2021/1751	. . . {Constructive features therefore, e.g. using two measurement cells}
2021/052	. . . . {Tubular type; cavity type; multireflective}	2021/1753	. . . . {and using two light sources}
2021/054	. . . . {Bubble trap; Debubbling}	2021/1755	. . . . {and using two apparatus or two probes}
2021/056	. . . . {Laminated construction}	2021/1757	. . {Time modulation of light being essential to the method of light modification, e.g. using single detector <a href="#">(circuits for photometry with modulation, using one detector G01J 1/44)</a> }
2021/058	. . . . {Flat flow cell}	2021/1759	. . . {Jittering, dithering, optical path modulation}
21/07	. . . Centrifugal type cuvettes <a href="#">(G01N 21/09 takes precedence)</a>	2021/1761	. . {A physical transformation being implied in the method, e.g. a phase change}
21/09	. . . adapted to resist hostile environments or corrosive or abrasive materials	2021/1763	. . . {Gas to liquid phase change}
21/11	. . Filling or emptying of cuvettes	2021/1765	. . {Method using an image detector and processing of image signal}
2021/115	. . . {Washing; Purging}	2021/1768	. . . {using photographic film}
21/13	. . Moving of cuvettes or solid samples to or from the investigating station <a href="#">{(handling materials for automatic analysis G01N 35/00)}</a>	2021/177	. . . {Detector of the video camera type}
2021/135	. . . {Sample holder displaceable <a href="#">(in automatised apparatus G01N 35/02)</a> }	2021/1772	. . . . {Array detector}
21/15	. . Preventing contamination of the components of the optical system or obstruction of the light path	2021/1774	. . . . . {Line array detector}
2021/151	. . . {Gas blown}	2021/1776	. . . . {Colour camera}
2021/152	. . . {Scraping; Brushing; Moving band}	2021/1778	. . . . {IIT [intensified image tube]}
2021/154	. . . {Ultrasonic cleaning}	2021/178	. . {Methods for obtaining spatial resolution of the property being measured}
2021/155	. . . {Monitoring cleanness of window, lens, or other parts}	2021/1782	. . . {In-depth resolution}
2021/157	. . . . {Monitoring by optical means}	2021/1785	. . . {Three dimensional}
2021/158	. . . {Eliminating condensation}	2021/1787	. . . . {Tomographic, i.e. computerised reconstruction from projective measurements}
21/17	. . Systems in which incident light is modified in accordance with the properties of the material investigated <a href="#">(where the material investigated is optically excited causing a change in wavelength of the incident light G01N 21/63)</a>		



2021/1789	. . .	{Time resolved}	2021/3125	. . . .	{Measuring the absorption by excited molecules}
2021/1791	. . .	{stroboscopic; pulse gated; time range gated}	2021/3129	. . . .	{Determining multicomponents by multiwavelength light}
2021/1793	. . .	{Remote sensing}	2021/3133	. . . .	{with selection of wavelengths before the sample}
2021/1795	. . .	{Atmospheric mapping of gases}	2021/3137	. . . .	{with selection of wavelengths after the sample}
2021/1797	. . .	{in landscape, e.g. crops}	21/314	. . . .	{with comparison of measurements at specific and non-specific wavelengths ( <a href="#">dual wavelength spectrometry G01J 3/427</a> )}
21/19	. .	Dichroism	2021/3144	. . . .	{for oxymetry}
21/21	. .	Polarisation-affecting properties ( <a href="#">G01N 21/19 takes precedence</a> )	2021/3148	. . . .	{using three or more wavelengths}
21/211	. . .	{Ellipsometry ( <a href="#">optical thickness measurement G01B 11/06</a> )}	21/3151	. . . .	{using two sources of radiation of different wavelengths ( <a href="#">G01N 21/33</a> - <a href="#">G01N 21/39 take precedence</a> )}
2021/212	. . . .	{Arrangement with total internal reflection}	2021/3155	. . . .	{Measuring in two spectral ranges, e.g. UV and visible}
2021/213	. . . .	{Spectrometric ellipsometry}	2021/3159	. . . .	{Special features of multiplexing circuits}
2021/214	. . . .	{Variangle incidence arrangement}	2021/3162	. . . .	{with offset adjustment between filters}
2021/215	. . . .	{Brewster incidence arrangement}	2021/3166	. . . .	{using separate detectors and filters}
2021/216	. . .	{using circular polarised light}	2021/317	. . . .	{Special constructive features}
2021/217	. . .	{Measuring depolarisation or comparing polarised and depolarised parts of light}	2021/3174	. . . .	{Filter wheel}
2021/218	. . .	{Measuring properties of electrooptical or magneto-optical media}	2021/3177	. . . .	{Use of spatially separated filters in simultaneous way}
21/23	. . .	Bi-refringence	2021/3181	. . . .	{using LEDs}
21/25	. .	Colour; Spectral properties, i.e. comparison of effect of material on the light at two or more different wavelengths or wavelength bands	2021/3185	. . . .	{typically monochromatic or band-limited}
21/251	. . .	{Colorimeters; Construction thereof}	2021/3188	. . . .	{band-limited}
21/253	. . . .	{for batch operation, i.e. multisample apparatus ( <a href="#">analytical automats G01N 35/00</a> )}	2021/3192	. . . .	{Absorption edge variation is measured}
21/255	. . .	{Details, e.g. use of specially adapted sources, lighting or optical systems}	2021/3196	. . . .	{Correlating located peaks in spectrum with reference data, e.g. fingerprint data}
21/256	. . .	{Arrangements using two alternating lights and one detector}	21/33	. . . .	using ultraviolet light ( <a href="#">G01N 21/39 takes precedence</a> )
2021/258	. . .	{Surface plasmon spectroscopy, e.g. micro- or nanoparticles in suspension}	2021/335	. . . .	{Vacuum UV}
21/27	. . .	using photo-electric detection ( <a href="#">G01N 21/31 takes precedence</a> ); circuits for computing concentration ( <a href="#">logarithmic circuits G06G 7/24</a> ; <a href="#">photometric circuits in general G01J</a> )	21/35	. . . .	using infrared light ( <a href="#">G01N 21/39 takes precedence</a> )
21/272	. . . .	{for following a reaction, e.g. for determining photometrically a reaction rate (photometric kinetic analysis)}	21/3504	. . . .	for analysing gases, e.g. multi-gas analysis
21/274	. . . .	{Calibration, base line adjustment, drift correction}	2021/3509	. . . .	{Correlation method, e.g. one beam alternating in correlator/sample field}
21/276	. . . .	{with alternation of sample and standard in optical path}	2021/3513	. . . .	{Open path with an instrumental source}
21/278	. . . .	{Constitution of standards}	21/3518	. . . .	Devices using gas filter correlation techniques; Devices using gas pressure modulation techniques
21/29	. . .	using visual detection ( <a href="#">G01N 21/31 takes precedence</a> )	<b>NOTE</b>		This group also <u>covers</u> devices without instrumental sources, e.g. radiometric-type devices using ambient infrared light.
21/293	. . . .	{with colour charts, graduated scales or turrets}			
2021/296	. . . .	{Visually measuring scintillation effect}	2021/3522	. . . . .	{balancing by two filters on two detectors}
21/31	. . .	Investigating relative effect of material at wavelengths characteristic of specific elements or molecules, e.g. atomic absorption spectrometry ( <a href="#">G01N 21/72 takes precedence</a> )	2021/3527	. . . . .	{and using one filter cell as attenuator}
21/3103	. . . .	{Atomic absorption analysis}	2021/3531	. . . . .	{without instrumental source, i.e. radiometric}
2021/3107	. . . .	{Cold vapor, e.g. determination of Hg}	2021/3536	. . . . .	{using modulation of pressure or density}
2021/3111	. . . .	{using Zeeman split}	2021/354	. . . . .	{Hygrometry of gases}
2021/3114	. . . .	{Multi-element AAS arrangements}	2021/3545	. . . . .	{Disposition for compensating effect of interfering gases}
2021/3118	. . . .	{Commutating sources, e.g. line source/broad source, chopping for comparison of broad/narrow regimes}	2021/355	. . . . .	{by using a third optical path, e.g. interference cuvette}
2021/3122	. . . .	{using a broad source with a monochromator}			

21/3554	. . . . .	for determining moisture content	21/45	. . . . .	using interferometric methods; using Schlieren methods
21/3559	. . . . .	in sheets, e.g. in paper	2021/451	. . . . .	{for determining the optical absorption}
21/3563	. . . . .	for analysing solids; Preparation of samples therefor	21/453	. . . . .	{Holographic interferometry (for dimensional measurements <a href="#">G01B 9/021</a> - <a href="#">G01B 9/029</a> )}
2021/3568	. . . . .	{applied to semiconductors, e.g. Silicon}	21/455	. . . . .	{Schlieren methods, e.g. for gradient index determination; Shadowgraph}
2021/3572	. . . . .	{Preparation of samples, e.g. salt matrices}	2021/456	. . . . .	{Moire deflectometry}
21/3577	. . . . .	for analysing liquids, e.g. polluted water	2021/458	. . . . .	{using interferential sensor, e.g. sensor fibre, possibly on optical waveguide}
21/3581	. . . . .	using far infrared light; using Terahertz radiation	21/47	. . . . .	Scattering, i.e. diffuse reflection ( <a href="#">G01N 21/25</a> , <a href="#">G01N 21/41</a> take precedence { <a href="#">G01N 21/55</a> takes precedence})
21/3586	. . . . .	by Terahertz time domain spectroscopy [THz-TDS]	2021/4702	. . . . .	{Global scatter; Total scatter, excluding reflections}
21/359	. . . . .	using near infrared light	2021/4704	. . . . .	{Angular selective}
2021/3595	. . . . .	{using FTIR}	2021/4707	. . . . .	{Forward scatter; Low angle scatter}
21/37	. . . . .	using pneumatic detection {(opto-acoustic detection <a href="#">G01N 21/1702</a> )}	2021/4709	. . . . .	{Backscatter}
21/39	. . . . .	using tunable lasers	2021/4711	. . . . .	{Multiangle measurement}
2021/391	. . . . .	{Intracavity sample}	2021/4714	. . . . .	{Continuous plural angles}
2021/392	. . . . .	{Measuring reradiation, e.g. fluorescence, backscatter}	2021/4716	. . . . .	{Using a ring of sensors, or a combination of diaphragm and sensors; Annular sensor}
2021/393	. . . . .	{and using a spectral variation of the interaction of the laser beam and the sample}	2021/4719	. . . . .	{using a optical fibre array}
2021/394	. . . . .	{DIAL method}	2021/4721	. . . . .	{using a PSD}
2021/395	. . . . .	{using a topographic target}	2021/4723	. . . . .	{Scanning scatter angles}
2021/396	. . . . .	{Type of laser source}	2021/4726	. . . . .	{Detecting scatter at 90°}
2021/397	. . . . .	{Dye laser}	2021/4728	. . . . .	{Optical definition of scattering volume}
2021/398	. . . . .	{CO <sub>2</sub> laser}	2021/473	. . . . .	{Compensating for unwanted scatter, e.g. reliefs, marks}
2021/399	. . . . .	{Diode laser}	2021/4733	. . . . .	{Discriminating different types of scatterers}
21/41	. . . . .	Refractivity; Phase-affecting properties, e.g. optical path length ( <a href="#">G01N 21/21</a> takes precedence)	2021/4735	. . . . .	{Solid samples, e.g. paper, glass}
2021/4106	. . . . .	{Atmospheric distortion; Turbulence}	21/4738	. . . . .	{Diffuse reflection (precedence is given to <a href="#">G01N 21/55</a> - <a href="#">G01N 21/57</a> if specular component is taken into consideration), e.g. also for testing fluids, fibrous materials}
2021/4113	. . . . .	{Atmospheric dispersion}	21/474	. . . . .	{Details of optical heads therefor, e.g. using optical fibres}
21/412	. . . . .	{Index profiling of optical fibres}	2021/4742	. . . . .	{comprising optical fibres}
2021/4126	. . . . .	{Index of thin films}	2021/4745	. . . . .	{Fused bundle, i.e. for backscatter}
21/4133	. . . . .	{Refractometers, e.g. differential}	2021/4747	. . . . .	{Concentric bundles}
2021/414	. . . . .	{Correcting temperature effect in refractometers}	2021/475	. . . . .	{Bifurcated bundle}
2021/4146	. . . . .	{Differential cell arrangements}	2021/4752	. . . . .	{Geometry}
2021/4153	. . . . .	{Measuring the deflection of light in refractometers}	2021/4754	. . . . .	{Diffuse illumination}
2021/416	. . . . .	{Visualising flow by index measurement}	2021/4757	. . . . .	{Geometry 0/45° or 45/0°}
2021/4166	. . . . .	{Methods effecting a waveguide mode enhancement through the property being measured}	2021/4759	. . . . .	{Annular illumination}
2021/4173	. . . . .	{Phase distribution}	2021/4761	. . . . .	{Mirror arrangements, e.g. in IR range}
2021/418	. . . . .	{Frequency/phase diagrams}	2021/4764	. . . . .	{Special kinds of physical applications}
2021/4186	. . . . .	{Phase modulation imaging}	2021/4766	. . . . .	{Sample containing fluorescent brighteners}
2021/4193	. . . . .	{using a PSD}	2021/4769	. . . . .	{Fluid samples, e.g. slurries, granulates; Compressible powdery of fibrous samples}
21/43	. . . . .	by measuring critical angle	2021/4771	. . . . .	{Matte surfaces with reflecting particles}
21/431	. . . . .	{Dip refractometers, e.g. using optical fibres}	2021/4773	. . . . .	{Partly or totally translucent samples}
2021/432	. . . . .	{comprising optical fibres}	2021/4776	. . . . .	{Miscellaneous in diffuse reflection devices}
2021/433	. . . . .	{with an unclad part on the fibre}	2021/4778	. . . . .	{Correcting variations in front distance}
2021/434	. . . . .	{Dipping block in contact with sample, e.g. prism}	2021/478	. . . . .	{Application in testing analytical test strips}
2021/435	. . . . .	{Sensing drops on the contact surface}	2021/4783	. . . . .	{Examining under varying incidence; Angularly adjustable head}
2021/436	. . . . .	{Sensing resonant reflection}			
2021/437	. . . . .	{with investigation of angle}			
2021/438	. . . . .	{with investigation of wavelength}			

21/4785	. . .	{Standardising light scatter apparatus; Standards therefor}	2021/5953	. . . . .	{for detecting a spatial spectrum}
21/4788	. . .	{Diffraction (for sizing particles <a href="#">G01N 15/0205</a> )}	2021/5957	. . . . .	{using an image detector type detector, e.g. CCD}
2021/479	. . . .	{Speckle}	2021/5961	. . . . .	{using arrays of sources and detectors}
2021/4792	. . .	{Polarisation of scatter light}	2021/5965	. . . . .	{using selected detectors in an array}
21/4795	. . .	{spatially resolved investigating of object in scattering medium ( <a href="#">in vivo A61B</a> )}	2021/5969	. . . . .	{Scanning of a tube, a cuvette, a volume of sample}
2021/4797	. . . .	{time resolved, e.g. analysis of ballistic photons}	2021/5973	. . . . .	{where the cuvette or tube is moved}
21/49	. . .	within a body or fluid	2021/5976	. . . . .	{Image projected and scanning projected image}
2021/495	. . . .	{the fluid being adsorbed, e.g. in porous medium}	2021/598	. . . . .	{Features of mounting, adjusting}
21/51	. . . .	inside a container, e.g. in an ampoule ( <a href="#">G01N 21/53</a> takes precedence)	2021/5984	. . . . .	{height adjustable}
2021/513	. . . . .	{Cuvettes for scattering measurements}	2021/5988	. . . . .	{Fluid mounting or the like, e.g. vortex}
2021/516	. . . . .	{Multiple excitation of scattering medium, e.g. by retro-reflected or multiply reflected excitation rays}	2021/5992	. . . . .	{Double pass}
21/53	. . . .	within a flowing fluid, e.g. smoke	2021/5996	. . . . .	{Positioning the head}
21/532	. . . . .	{with measurement of scattering and transmission}	21/61	. . .	Non-dispersive gas analysers ( <a href="#">G01N 21/3504</a> takes precedence)
21/534	. . . . .	{by measuring transmission alone, i.e. determining opacity}	21/62	. . .	Systems in which the material investigated is excited whereby it emits light or causes a change in wavelength of the incident light
2021/536	. . . . .	{Measurement device mounted at stack}	2021/625	. . .	{Excitation by energised particles such as metastable molecules}
21/538	. . . . .	{for determining atmospheric attenuation and visibility}	21/63	. . .	optically excited
21/55	. . .	Specular reflectivity	21/631	. . .	{using photolysis and investigating photolysed fragments}
2021/551	. . .	{Retroreflectance}	2021/632	. . . .	{Predissociation, e.g. for fluorescence of transient excited radicals}
21/552	. . .	Attenuated total reflection	2021/633	. . .	{Photoinduced grating used for analysis}
21/553	. . . .	{and using surface plasmons ( <a href="#">fluorescence excitation G01N 21/648</a> ; <a href="#">enhanced Raman G01N 21/658</a> )}	2021/634	. . .	{Photochromic material analysis}
21/554	. . . . .	{detecting the surface plasmon resonance of nanostructured metals, e.g. localised surface plasmon resonance}	2021/635	. . .	{Photosynthetic material analysis, e.g. chlorophyll}
2021/555	. . .	{Measuring total reflection power, i.e. scattering and specular}	21/636	. . .	{using an arrangement of pump beam and probe beam; using the measurement of optical non-linear properties; ( <a href="#">non-linear optics per se G02F 1/35</a> )}
2021/556	. . .	{Measuring separately scattering and specular}	2021/637	. . . .	{Lasing effect used for analysis}
2021/557	. . .	{Detecting specular reflective parts on sample}	2021/638	. . . .	{Brillouin effect, e.g. stimulated Brillouin effect}
2021/558	. . .	{Measuring reflectivity and transmission}	21/64	. . .	Fluorescence; Phosphorescence
2021/559	. . .	{Determining variation of specular reflection within diffusively reflecting sample}	21/6402	. . . .	{Atomic fluorescence; Laser induced fluorescence}
21/57	. . .	Measuring gloss	21/6404	. . . . .	{Atomic fluorescence}
2021/575	. . . .	{Photogoniometering}	2021/6406	. . . . .	{multi-element}
21/59	. . .	Transmissivity ( <a href="#">G01N 21/25</a> takes precedence)	21/6408	. . . .	{with measurement of decay time, time resolved fluorescence}
2021/5903	. . .	{using surface plasmon resonance [SPR], e.g. extraordinary optical transmission [EOT]}	2021/641	. . . . .	{Phosphorimetry, gated}
21/5907	. . .	{Densitometers}	2021/6413	. . . . .	{Distinction short and delayed fluorescence or phosphorescence}
21/5911	. . . .	{of the scanning type ( <a href="#">scanning per se G02B</a> )}	2021/6415	. . . . .	{with two excitations, e.g. strong pump/probe flash}
2021/5915	. . . . .	{Processing scan data in densitometry}	2021/6417	. . . . .	{Spectrofluorimetric devices}
2021/5919	. . . . .	{Determining total density of a zone}	2021/6419	. . . . .	{Excitation at two or more wavelengths}
2021/5923	. . . . .	{Determining zones of density; quantitating spots}	2021/6421	. . . . .	{Measuring at two or more wavelengths}
2021/5926	. . . . .	{Isodensitometers}	2021/6423	. . . . .	{Spectral mapping, video display}
2021/593	. . . . .	{Correcting from the background density}	2021/6426	. . . . .	{Determining Fraunhofer lines}
2021/5934	. . . . .	{Averaging on a zone}	21/6428	. . . .	{Measuring fluorescence of fluorescent products of reactions or of fluorochrome labelled reactive substances, e.g. measuring quenching effects, using measuring "optrodes" ( <a href="#">in vivo A61B 5/00</a> ; <a href="#">immunoassay G01N 33/53</a> )}
2021/5938	. . . . .	{Features of monitor, display}	21/643	. . . . .	{non-biological material}
2021/5942	. . . . .	{for dot area ratio in printing applications}	2021/6432	. . . . .	{Quenching}
2021/5946	. . . . .	{for binary signal}			
2021/5949	. . . . .	{Correcting nonlinearity of signal, e.g. in measurement of photomedium}			

2021/6434	. . . . .	{Optrodes}	21/716	. . .	{by measuring the radiation emitted by a test object treated by combustion gases for investigating the composition of gas mixtures}
2021/6436	. . . . .	{for analysing tapes}	21/718	. . .	{Laser microanalysis, i.e. with formation of sample plasma}
2021/6439	. . . . .	{with indicators, stains, dyes, tags, labels, marks}	21/72	. . .	using flame burners
2021/6441	. . . . .	{with two or more labels}	2021/725	. . . . .	{for determining of metalloids, using Beilstein type reaction}
2021/6443	. . . . .	{Fluorimetric titration}	21/73	. . .	using plasma burners or torches
21/6445	. . . . .	{Measuring fluorescence polarisation}	21/74	. . .	using flameless atomising, e.g. graphite furnaces
21/6447	. . . . .	{by visual observation}	2021/745	. . . . .	{Control of temperature, heating, ashing}
21/645	. . . . .	{Specially adapted constructive features of fluorimeters}	21/75	. . .	Systems in which material is subjected to a chemical reaction, the progress or the result of the reaction being investigated (systems in which material is burnt in a flame or plasma <a href="#">G01N 21/72</a> , <a href="#">G01N 21/73</a> )
21/6452	. . . . .	{Individual samples arranged in a regular 2D-array, e.g. multiwell plates}	2021/751	. . .	{Comparing reactive/non reactive substances}
21/6454	. . . . .	{using an integrated detector array}	2021/752	. . .	{Devices comprising reaction zones}
21/6456	. . . . .	{Spatial resolved fluorescence measurements; Imaging}	2021/754	. . .	{Reagent flow and intermittent injection of sample or <i>vice versa</i> }
21/6458	. . . . .	{Fluorescence microscopy (fluorescence microscopes <i>per se</i> <a href="#">G02B 21/0076</a> and <a href="#">G02B 21/16</a> )}	2021/755	. . .	{Comparing readings with/without reagents, or before/after reaction}
2021/646	. . . . .	{Detecting fluorescent inhomogeneities at a position, e.g. for detecting defects}	2021/757	. . .	{using immobilised reagents}
2021/6463	. . . . .	{Optics}	2021/758	. . .	{using reversible reaction}
2021/6465	. . . . .	{Angular discrimination}	21/76	. . .	Chemiluminescence; Bioluminescence
2021/6467	. . . . .	{Axial flow and illumination}	21/763	. . .	{Bioluminescence}
2021/6469	. . . . .	{Cavity, e.g. ellipsoid}	21/766	. . .	{of gases}
2021/6471	. . . . .	{Special filters, filter wheel}	21/77	. . .	by observing the effect on a chemical indicator
2021/6473	. . . . .	{In-line geometry}	21/7703	. . .	{using reagent-clad optical fibres or optical waveguides (using measurement of total internal reflection or attenuated total reflection <a href="#">G01N 21/552</a> ; optical fibres or waveguides <i>per se</i> <a href="#">G02B</a> )}
2021/6476	. . . . .	{Front end, i.e. backscatter, geometry}	2021/7706	. . . . .	{Reagent provision}
2021/6478	. . . . .	{Special lenses}	2021/7709	. . . . .	{Distributed reagent, e.g. over length of guide}
21/648	. . . . .	{using evanescent coupling or surface plasmon coupling for the excitation of fluorescence}	2021/7713	. . . . .	{in core}
2021/6482	. . . . .	{Sample cells, cuvettes}	2021/7716	. . . . .	{in cladding}
2021/6484	. . . . .	{Optical fibres}	2021/772	. . . . .	{Tip coated light guide}
21/6486	. . . . .	{Measuring fluorescence of biological material, e.g. DNA, RNA, cells ( <a href="#">G01N 21/6428</a> takes precedence)}	2021/7723	. . . . .	{Swelling part, also for adsorption sensor, i.e. without chemical reaction}
21/6489	. . . . .	{Photoluminescence of semiconductors}	2021/7726	. . . . .	{Porous glass}
2021/6491	. . . . .	{Measuring fluorescence and transmission; Correcting inner filter effect}	2021/773	. . . . .	{Porous polymer jacket; Polymer matrix with indicator}
2021/6493	. . . . .	{by alternating fluorescence/transmission or fluorescence/reflection}	2021/7733	. . . . .	{Reservoir, liquid reagent}
2021/6495	. . . . .	{Miscellaneous methods}	2021/7736	. . . . .	{exposed, cladding free}
2021/6497	. . . . .	{Miscellaneous applications}	21/774	. . . . .	{the reagent being on a grating or periodic structure}
21/65	. . .	Raman scattering	21/7743	. . . . .	{the reagent-coated grating coupling light in or out of the waveguide}
2021/651	. . . . .	{Cuvettes therefore}	21/7746	. . . . .	{the waveguide coupled to a cavity resonator}
2021/653	. . . . .	{Coherent methods [CARS]}	2021/775	. . .	{Indicator and selective membrane}
2021/655	. . . . .	{Stimulated Raman}	2021/7753	. . .	{Reagent layer on photoelectrical transducer}
2021/656	. . . . .	{Raman microprobe}	2021/7756	. . .	{Sensor type}
21/658	. . . . .	{enhancement Raman, e.g. surface plasmons}	2021/7759	. . . . .	{Dipstick; Test strip}
21/66	. .	electrically excited, e.g. electroluminescence	2021/7763	. . . . .	{Sample through flow}
21/67	. . .	using electric arcs or discharges	2021/7766	. . . . .	{Capillary fill}
21/68	. . .	using high frequency electric fields	2021/7769	. . .	{Measurement method of reaction-produced change in sensor}
21/69	. . .	specially adapted for fluids {, e.g. molten metal}	2021/7773	. . . . .	{Reflection}
2021/695	. . . . .	{Molten metals}	2021/7776	. . . . .	{Index}
21/70	. .	mechanically excited, e.g. triboluminescence			
21/71	. .	thermally excited			
2021/712	. . .	{using formation of volatile hydride}			
21/714	. . .	{Sample nebulisers for flame burners or plasma burners ( <a href="#">nebulizers per se <a href="#">B05B</a>)}</a>			



2021/7779	. . . . {interferometric}	2021/8609	. . . {Optical head specially adapted}
2021/7783	. . . . {Transmission, loss}	2021/8618	. . . . {with an optically integrating part, e.g. hemisphere}
2021/7786	. . . . {Fluorescence}	2021/8627	. . . . {with an illuminator over the whole width}
2021/7789	. . . . {Cavity or resonator}	2021/8636	. . . . {Detecting arrangement therefore, e.g. collimators, screens}
2021/7793	. . . {Sensor comprising plural indicators}	2021/8645	. . . {using multidetectors, detector array}
2021/7796	. . . {Special mountings, packaging of indicators}	2021/8654	. . . {Mechanical support; Mounting of sheet}
21/78	. . . producing a change of colour	2021/8663	. . . {Paper, e.g. gloss, moisture content (inspecting the presence of flaws in moving materials, e.g. paper <a href="#">G01N 21/89</a> ; measurement of gloss in general <a href="#">G01N 21/57</a> )}
21/783	. . . . {for analysing gases}	2021/8672	. . . . {Paper formation parameter}
2021/786	. . . . {with auxiliary heating for reaction}	2021/8681	. . . . {Paper fibre orientation}
21/79	. . . . Photometric titration	2021/869	. . . {Plastics or polymeric material, e.g. polymers orientation in plastic, adhesive imprinted band}
21/80	. . . . Indicating pH value	21/87	. . Investigating jewels ( <a href="#">G01N 21/88</a> takes precedence)
21/81	. . . . Indicating humidity	21/88	. . Investigating the presence of flaws or contamination
21/82	. . . producing a precipitate or turbidity	21/8803	. . . {Visual inspection (measuring projectors <a href="#">G01B 9/08</a> )}
2021/825	. . . . {Agglutination}	21/8806	. . . {Specially adapted optical and illumination features}
21/83	. . . . Turbidimetric titration	2021/8809	. . . . {Adjustment for highlighting flaws}
21/84	. . Systems specially adapted for particular applications	2021/8812	. . . . {Diffuse illumination, e.g. "sky"}
2021/8405	. . {Application to two-phase or mixed materials, e.g. gas dissolved in liquids}	2021/8816	. . . . {by using multiple sources, e.g. LEDs}
2021/8411	. . {Application to online plant, process monitoring}	2021/8819	. . . . {by using retroreflecting screen}
2021/8416	. . . {and process controlling, not otherwise provided for}	2021/8822	. . . . {Dark field detection}
21/8422	. . {Investigating thin films, e.g. matrix isolation method}	2021/8825	. . . . {Separate detection of dark field and bright field}
2021/8427	. . . {Coatings}	2021/8829	. . . . {Shadow projection or structured background, e.g. for deflectometry (three-dimensional metrology of surfaces <a href="#">G01B 11/25</a> )}
2021/8433	. . . . {Comparing coated/uncoated parts}	2021/8832	. . . . {Structured background, e.g. for transparent objects}
2021/8438	. . . {Multilayers}	2021/8835	. . . . {Adjustable illumination, e.g. software adjustable screen}
2021/8444	. . {Fibrous material}	2021/8838	. . . . {Stroboscopic illumination; synchronised illumination}
2021/845	. . {Objects on a conveyor}	2021/8841	. . . . {Illumination and detection on two sides of object}
2021/8455	. . . {and using position detectors}	2021/8845	. . . . {Multiple wavelengths of illumination or detection}
2021/8461	. . {Investigating impurities in semiconductor, e.g. Silicon}	2021/8848	. . . . {Polarisation of light}
2021/8466	. . {Investigation of vegetal material, e.g. leaves, plants, fruits}	21/8851	. . . {Scan or image signal processing specially adapted therefor, e.g. for scan signal adjustment, for detecting different kinds of defects, for compensating for structures, markings, edges ( <a href="#">G01N 21/8806</a> and <a href="#">G01N 21/93</a> - <a href="#">G01N 21/95692</a> take precedence; optical measurement of dimensions <a href="#">G01B 11/00</a> ; optical scanning <a href="#">G02B 26/10</a> ; image transformation <a href="#">G06T 3/00</a> ; computerised image enhancement <a href="#">G06T 5/00</a> ; image processing <a href="#">per se</a> for flaw detection <a href="#">G06T 7/0002</a> )}
2021/8472	. . {Investigation of composite materials}	2021/8854	. . . . {Grading and classifying of flaws}
2021/8477	. . {Investigating crystals, e.g. liquid crystals}	2021/8858	. . . . {Flaw counting}
21/8483	. . {Investigating reagent band (test-element handling not specific to a test method <a href="#">G01N 33/4875</a> ; analytical elements specific to chemical analysis of biological material <a href="#">G01N 33/52</a> ; autometer with reagent band <a href="#">G01N 35/04</a> )}	2021/8861	. . . . {Determining coordinates of flaws}
2021/8488	. . . {the band presenting reference patches}	2021/8864	. . . . {Mapping zones of defects}
2021/8494	. . . {Measuring or storing parameters of the band}		
21/85	. . Investigating moving fluids or granular solids		
21/8507	. . . {Probe photometers, i.e. with optical measuring part dipped into fluid sample}		
2021/8514	. . . . {with immersed mirror}		
2021/8521	. . . . {with a combination mirror cell-cuvette}		
2021/8528	. . . . {Immersed light conductor}		
2021/8535	. . . . {presenting a cut}		
2021/8542	. . . . {presenting an exposed part of the core}		
2021/855	. . . . {Underground probe, e.g. with provision of a penetration tool}		
2021/8557	. . . {Special shaping of flow, e.g. using a by-pass line, jet flow, curtain flow}		
2021/8564	. . . . {Sample as drops}		
2021/8571	. . . {using filtering of sample fluid}		
2021/8578	. . . {Gaseous flow ( <a href="#">IR analysers G01N 21/8507</a> )}		
2021/8585	. . . . {using porous sheets, e.g. for separating aerosols}		
2021/8592	. . . {Grain or other flowing solid samples}		
21/86	. . Investigating moving sheets ( <a href="#">G01N 21/89</a> takes precedence)		

2021/8867	. . . . .	{using sequentially two or more inspection runs, e.g. coarse and fine, or detecting then analysing}	21/898	. . . . .	Irregularities in textured or patterned surfaces, e.g. textiles, wood
2021/887	. . . . .	{the measurements made in two or more directions, angles, positions}	21/8983	. . . . .	{for testing textile webs, i.e. woven material}
2021/8874	. . . . .	{Taking dimensions of defect into account}	21/8986	. . . . .	{Wood}
2021/8877	. . . . .	{Proximity analysis, local statistics}	21/90	. . . . .	in a container or its contents ( <a href="#">G01N 21/91</a> takes precedence)
2021/888	. . . . .	{Marking defects}	21/9009	. . . . .	{Non-optical constructional details affecting optical inspection, e.g. cleaning mechanisms for optical parts, vibration reduction}
2021/8883	. . . . .	{involving the calculation of gauges, generating models}	21/9018	. . . . .	{Dirt detection in containers}
2021/8887	. . . . .	{based on image processing techniques}	21/9027	. . . . .	{in containers after filling}
2021/889	. . . . .	{providing a bare video image, i.e. without visual measurement aids}	21/9036	. . . . .	{using arrays of emitters or receivers}
2021/8893	. . . . .	{providing a video image and a processed signal for helping visual decision}	21/9045	. . . . .	{Inspection of ornamented or stippled container walls}
2021/8896	. . . . .	{Circuits specially adapted for system specific signal conditioning}	21/9054	. . . . .	{Inspection of sealing surface and container finish}
21/89	. . . . .	in moving material, e.g. running paper or textiles ( <a href="#">G01N 21/90</a> , <a href="#">G01N 21/91</a> , <a href="#">G01N 21/94</a> take precedence)	2021/9063	. . . . .	{Hot-end container inspection}
21/8901	. . . . .	{Optical details; Scanning details ( <a href="#">per se G02B</a> )}	21/9072	. . . . .	{with illumination or detection from inside the container}
2021/8902	. . . . .	{Anamorphic spot}	21/9081	. . . . .	{Inspection especially designed for plastic containers, e.g. preforms}
21/8903	. . . . .	{using a multiple detector array}	21/909	. . . . .	{in opaque containers or opaque container parts, e.g. cans, tins, caps, labels}
2021/8904	. . . . .	{Sheetwide light conductor on detecting side, e.g. fluorescing light rod}	21/91	. . . . .	using penetration of dyes, e.g. fluorescent ink
2021/8905	. . . . .	{Directional selective optics, e.g. slits, spatial filters}	21/93	. . . . .	Detection standards; Calibrating {baseline adjustment, drift correction}
2021/8907	. . . . .	{Cylindrical optics}	2021/933	. . . . .	{Adjusting baseline or gain (also for web inspection)}
2021/8908	. . . . .	{Strip illuminator, e.g. light tube}	2021/936	. . . . .	{Adjusting threshold, e.g. by way of moving average}
2021/8909	. . . . .	{Scan signal processing specially adapted for inspection of running sheets}	21/94	. . . . .	Investigating contamination, e.g. dust ( <a href="#">G01N 21/85</a> takes precedence)
2021/891	. . . . .	{Edge discrimination, e.g. by signal filtering}	2021/945	. . . . .	{Liquid or solid deposits of macroscopic size on surfaces, e.g. drops, films, or clustered contaminants ( <a href="#">dust particles and microscopic contaminants in G01N 21/94</a> )}
2021/8911	. . . . .	{Setting scan-width signals}	21/95	. . . . .	characterised by the material or shape of the object to be examined ( <a href="#">G01N 21/89</a> - <a href="#">G01N 21/91</a> , <a href="#">G01N 21/94</a> take precedence)
2021/8912	. . . . .	{Processing using lane subdivision}	21/9501	. . . . .	{Semiconductor wafers ( <a href="#">manufacturing processes per se of semiconductor devices implementing a measuring step H01L 22/10</a> )}
21/8914	. . . . .	{characterised by the material examined}	21/9503	. . . . .	{Wafer edge inspection}
21/8915	. . . . .	{non-woven textile material}	21/9505	. . . . .	{Wafer internal defects, e.g. microcracks}
21/8916	. . . . .	{for testing photographic material}	21/9506	. . . . .	{Optical discs}
2021/8917	. . . . .	{Paper, also undulated}	21/9508	. . . . .	{Capsules; Tablets}
2021/8918	. . . . .	{Metal}	21/951	. . . . .	{Balls}
21/892	. . . . .	characterised by the flaw, defect or object feature examined	2021/9511	. . . . .	{Optical elements other than lenses, e.g. mirrors ( <a href="#">testing of optical apparatus in G01M 11/00</a> )}
21/8921	. . . . .	{Streaks}	2021/9513	. . . . .	{Liquid crystal panels}
21/8922	. . . . .	{Periodic flaws}	21/9515	. . . . .	{Objects of complex shape, e.g. examined with use of a surface follower device ( <a href="#">measuring contours and curvatures G01B 11/24</a> )}
2021/8924	. . . . .	{Dents; Relief flaws}	2021/9516	. . . . .	{whereby geometrical features are being masked}
2021/8925	. . . . .	{Inclusions}	2021/9518	. . . . .	{using a surface follower, e.g. robot}
2021/8927	. . . . .	{Defects in a structured web}	21/952	. . . . .	Inspecting the exterior surface of cylindrical bodies or wires ( <a href="#">G01N 21/956</a> takes precedence)
2021/8928	. . . . .	{Haze defects, i.e. with a part of diffracted light}			
21/894	. . . . .	Pinholes			
21/896	. . . . .	Optical defects in or on transparent materials, e.g. distortion, surface flaws {in conveyed flat sheet or rod ( <a href="#">for other objects G01N 21/958</a> )}			
2021/8962	. . . . .	{for detecting separately opaque flaws and refracting flaws}			
2021/8965	. . . . .	{using slant illumination, using internally reflected light}			
2021/8967	. . . . .	{Discriminating defects on opposite sides or at different depths of sheet or rod}			

21/954	. . . .	Inspecting the inner surface of hollow bodies, e.g. bores	23/085	. . . .	X-ray absorption fine structure [XAFS], e.g. extended XAFS [EXAFS]
2021/9542	. . . . .	{using a probe}	23/087	. . . .	using polyenergetic X-rays
2021/9544	. . . . .	{with emitter and receiver on the probe}	23/09	. . .	the radiation being neutrons
2021/9546	. . . . .	{with remote light transmitting, e.g. optical fibres}	23/095	. . .	Gamma-ray resonance absorption, e.g. using the Mössbauer effect
2021/9548	. . . . .	{Scanning the interior of a cylinder}	23/10	. . .	the material being confined in a container, e.g. in a luggage X-ray scanners
21/956	. . . .	Inspecting patterns on the surface of objects {(contactless testing of electronic circuits <a href="#">G01R 31/308</a> ; testing currency <a href="#">G07D</a> ; manufacturing processes <a href="#">per se</a> of semiconductor devices implementing a measuring step <a href="#">H01L 22/10</a> )}	23/12	. . .	the material being a flowing fluid or a flowing granular solid
21/95607	. . . . .	{using a comparative method}	23/125	. . . .	{with immersed detecting head}
2021/95615	. . . . .	{with stored comparison signal}	23/16	. . .	the material being a moving sheet or film
21/95623	. . . . .	{using a spatial filtering method ( <a href="#">per se</a> <a href="#">G02B</a> )}	23/18	. . .	Investigating the presence of flaws defects or foreign matter
2021/9563	. . . . .	{and suppressing pattern images}	23/185	. . . .	{in tyres}
2021/95638	. . . . .	{for PCB's}	23/20	. . .	by using diffraction of the radiation by the materials, e.g. for investigating crystal structure; by using scattering of the radiation by the materials, e.g. for investigating non-crystalline materials; by using reflection of the radiation by the materials
2021/95646	. . . . .	{Soldering}	23/20008	. .	Constructional details of analysers, e.g. characterised by X-ray source, detector or optical system; Accessories therefor; Preparing specimens therefor ( <a href="#">monochromators for X-rays using crystals</a> <a href="#">G21K 1/06</a> )
2021/95653	. . . . .	{Through-holes}	23/20016	. . .	Goniometers
2021/95661	. . . . .	{for leads, e.g. position, curvature}	23/20025	. . .	Sample holders or supports therefor
2021/95669	. . . . .	{for solder coating, coverage}	23/20033	. . . .	provided with temperature control or heating means
2021/95676	. . . . .	{Masks, reticles, shadow masks}	23/20041	. . . .	for high pressure testing, e.g. anvil cells
21/95684	. . . . .	{Patterns showing highly reflecting parts, e.g. metallic elements}	23/2005	. . .	Preparation of powder samples therefor
21/95692	. . . . .	{Patterns showing hole parts, e.g. honeycomb filtering structures}	23/20058	. .	Measuring diffraction of electrons, e.g. low energy electron diffraction [LEED] method or reflection high energy electron diffraction [RHEED] method
21/958	. . . .	Inspecting transparent materials {or objects, e.g. windscreens ( <a href="#">for conveyed flat sheet or rod</a> <a href="#">G01N 21/896</a> )}	23/20066	. .	Measuring inelastic scatter of gamma rays, e.g. Compton effect
2021/9583	. . . . .	{Lenses}	23/20075	. .	{by measuring interferences of X-rays, e.g. Borrmann effect}
2021/9586	. . . . .	{Windscreens}	23/20083	. .	{by using a combination of at least two measurements at least one being a transmission measurement and one a scatter measurement}
<b>22/00</b>		<b>Investigating or analysing materials by the use of microwaves or radio waves, i.e. electromagnetic waves with a wavelength of one millimetre or more (<a href="#">G01N 3/00</a> - <a href="#">G01N 17/00</a>, <a href="#">G01N 24/00</a> take precedence)</b>	23/20091	. .	Measuring the energy-dispersion spectrum [EDS] of diffracted radiation
22/005	. . .	{and using Stark effect modulation}	23/201	. .	by measuring small-angle scattering
22/02	. . .	Investigating the presence of flaws	23/202	. . .	using neutrons
22/04	. . .	Investigating moisture content	23/203	. .	Measuring back scattering
<b>23/00</b>		<b>Investigating or analysing materials by the use of wave or particle radiation, e.g. X-rays or neutrons, not covered by groups <a href="#">G01N 3/00</a> - <a href="#">G01N 17/00</a>, <a href="#">G01N 21/00</a> or <a href="#">G01N 22/00</a></b>	23/204	. . .	using neutrons
23/005	. . .	{by using neutrons ( <a href="#">G01N 23/02</a> - <a href="#">G01N 23/227</a> take precedence)}	23/205	. .	using diffraction cameras
23/02	. . .	by transmitting the radiation through the material	23/2055	. .	Analysing diffraction patterns
23/025	. . .	{using neutrons}	23/207	. .	Diffractometry using detectors, e.g. using a probe in a central position and one or more displaceable detectors in circumferential positions
23/04	. . .	and forming images of the material	23/2073	. . .	{using neutron detectors ( <a href="#">neutron spectrometry</a> <a href="#">G01T 3/00</a> )}
23/041	. . .	Phase-contrast imaging, e.g. using grating interferometers	23/2076	. . .	{for spectrometry, i.e. using an analysing crystal, e.g. for measuring X-ray fluorescence spectrum of a sample with wavelength-dispersion, i.e. WDXFS}
23/043	. . .	{using fluoroscopic examination, with visual observation or video transmission of fluoroscopic images}			
23/044	. . .	using laminography or tomosynthesis			
23/046	. . .	using tomography, e.g. computed tomography [CT]			
23/05	. . .	using neutrons			
23/06	. . .	and measuring the absorption			
23/083	. . .	the radiation being X-rays			

23/22	<ul style="list-style-type: none"> <li>by measuring secondary emission from the material</li> </ul>	24/084	<ul style="list-style-type: none"> <li>{Detection of potentially hazardous samples, e.g. toxic samples, explosives, drugs, firearms, weapons}</li> </ul>
	<b>NOTE</b>	24/085	<ul style="list-style-type: none"> <li>{Analysis of materials for the purpose of controlling industrial production systems}</li> </ul>
	Devices <i>per se</i> are classified in the relevant places, e.g. <a href="#">H01J 37/00</a> , <a href="#">H01J 49/00</a>	24/087	<ul style="list-style-type: none"> <li>{Structure determination of a chemical compound, e.g. of a biomolecule such as a protein}</li> </ul>
23/2202	<ul style="list-style-type: none"> <li>Preparing specimens therefor</li> </ul>	24/088	<ul style="list-style-type: none"> <li>{Assessment or manipulation of a chemical or biochemical reaction, e.g. verification whether a chemical reaction occurred or whether a ligand binds to a receptor in drug screening or assessing reaction kinetics}</li> </ul>
23/2204	<ul style="list-style-type: none"> <li>Specimen supports therefor; Sample conveying means therefore</li> </ul>	24/10	<ul style="list-style-type: none"> <li>by using electron paramagnetic resonance (<a href="#">G01N 24/12</a> takes precedence)</li> </ul>
23/2206	<ul style="list-style-type: none"> <li>Combination of two or more measurements, at least one measurement being that of secondary emission, e.g. combination of secondary electron [SE] measurement and back-scattered electron [BSE] measurement</li> </ul>	24/12	<ul style="list-style-type: none"> <li>by using double resonance</li> </ul>
23/2208	<ul style="list-style-type: none"> <li>all measurements being of a secondary emission, e.g. combination of SE measurement and characteristic X-ray measurement</li> </ul>	24/14	<ul style="list-style-type: none"> <li>by using cyclotron resonance</li> </ul>
23/2209	<ul style="list-style-type: none"> <li>using wavelength dispersive spectroscopy [WDS]</li> </ul>	<b>25/00</b>	<b>Investigating or analyzing materials by the use of thermal means (<a href="#">G01N 3/00</a> - <a href="#">G01N 23/00</a> take precedence)</b>
23/221	<ul style="list-style-type: none"> <li>by activation analysis</li> </ul>	25/005	<ul style="list-style-type: none"> <li>{by investigating specific heat}</li> </ul>
23/222	<ul style="list-style-type: none"> <li>using neutron activation analysis [NAA]</li> </ul>	25/02	<ul style="list-style-type: none"> <li>by investigating changes of state or changes of phase; by investigating sintering ({investigating or analysing oils or hydrocarbon fluids by measuring cloud point or pour point <a href="#">G01N 33/2811</a>})</li> </ul>
23/223	<ul style="list-style-type: none"> <li>by irradiating the sample with X-rays or gamma-rays and by measuring X-ray fluorescence</li> </ul>	25/04	<ul style="list-style-type: none"> <li>of melting point; of freezing point; of softening point</li> </ul>
23/225	<ul style="list-style-type: none"> <li>using electron or ion</li> </ul>	25/06	<ul style="list-style-type: none"> <li>Analysis by measuring change of freezing point</li> </ul>
23/2251	<ul style="list-style-type: none"> <li>using incident electron beams, e.g. scanning electron microscopy [SEM]</li> </ul>	25/08	<ul style="list-style-type: none"> <li>of boiling point</li> </ul>
23/2252	<ul style="list-style-type: none"> <li>Measuring emitted X-rays, e.g. electron probe microanalysis [EPMA]</li> </ul>	25/085	<ul style="list-style-type: none"> <li>{Investigating nucleation}</li> </ul>
23/2254	<ul style="list-style-type: none"> <li>Measuring cathodoluminescence</li> </ul>	25/10	<ul style="list-style-type: none"> <li>Analysis by measuring change of boiling point</li> </ul>
23/2255	<ul style="list-style-type: none"> <li>using incident ion beams, e.g. proton beams</li> </ul>	25/12	<ul style="list-style-type: none"> <li>of critical point; of other phase change</li> </ul>
23/2257	<ul style="list-style-type: none"> <li>Measuring excited X-rays, i.e. particle-induced X-ray emission [PIXE]</li> </ul>	25/14	<ul style="list-style-type: none"> <li>by using distillation, extraction, sublimation, condensation, freezing, or crystallisation (<a href="#">G01N 25/02</a> takes precedence)</li> </ul>
23/2258	<ul style="list-style-type: none"> <li>Measuring secondary ion emission, e.g. secondary ion mass spectrometry [SIMS] (<a href="#">mass-to-charge ratio analysis aspects of SIMS for material analysis <a href="#">G01N 27/62</a></a>)</li> </ul>	25/142	<ul style="list-style-type: none"> <li>{by condensation}</li> </ul>
23/227	<ul style="list-style-type: none"> <li>Measuring photoelectric effect, e.g. photoelectron emission microscopy [PEEM]</li> </ul>	25/145	<ul style="list-style-type: none"> <li>{Accessories, e.g. cooling devices (in general <a href="#">B01L</a>, <a href="#">F25D</a>)}</li> </ul>
23/2273	<ul style="list-style-type: none"> <li>Measuring photoelectron spectrum, e.g. electron spectroscopy for chemical analysis [ESCA] or X-ray photoelectron spectroscopy [XPS]</li> </ul>	25/147	<ul style="list-style-type: none"> <li>{by cristallisation}</li> </ul>
23/2276	<ul style="list-style-type: none"> <li>using the Auger effect, e.g. Auger electron spectroscopy [AES]</li> </ul>	25/16	<ul style="list-style-type: none"> <li>by investigating thermal coefficient of expansion</li> </ul>
<b>24/00</b>	<b>Investigating or analyzing materials by the use of nuclear magnetic resonance, electron paramagnetic resonance or other spin effects</b>	25/18	<ul style="list-style-type: none"> <li>by investigating thermal conductivity (by calorimetry <a href="#">G01N 25/20</a>; by measuring change of resistance of an electrically-heated body <a href="#">G01N 27/18</a>)</li> </ul>
24/002	<ul style="list-style-type: none"> <li>{Using resonance on molecular beams (atomic clocks <a href="#">G04F 5/14</a>; beam masers <a href="#">H01S 1/06</a>)}</li> </ul>	25/20	<ul style="list-style-type: none"> <li>by investigating the development of heat, i.e. calorimetry, e.g. by measuring specific heat, by measuring thermal conductivity (calorimeters <i>per se</i> <a href="#">G01K</a>)</li> </ul>
24/004	<ul style="list-style-type: none"> <li>{Using acoustical resonance, i.e. phonon interactions}</li> </ul>	25/22	<ul style="list-style-type: none"> <li>on combustion or catalytic oxidation, e.g. of components of gas mixtures</li> </ul>
24/006	<ul style="list-style-type: none"> <li>{using optical pumping (magnetometers using optical pumping <a href="#">G01R 33/26</a>, optical pumping of lasers <a href="#">H01S 3/091</a>)}</li> </ul>	25/24	<ul style="list-style-type: none"> <li>using combustion tubes, e.g. for microanalysis</li> </ul>
24/008	<ul style="list-style-type: none"> <li>{by using resonance effects in zero field, e.g. in microwave, submillimetric region (by measuring absorption of microwaves by the material <a href="#">G01N 22/00</a>)}</li> </ul>	25/26	<ul style="list-style-type: none"> <li>using combustion with oxygen under pressure, e.g. in bomb calorimeter</li> </ul>
24/08	<ul style="list-style-type: none"> <li>by using nuclear magnetic resonance (<a href="#">G01N 24/12</a> takes precedence)</li> </ul>	25/28	<ul style="list-style-type: none"> <li>the rise in temperature of the gases resulting from combustion being measured directly</li> </ul>
24/081	<ul style="list-style-type: none"> <li>{Making measurements of geologic samples, e.g. measurements of moisture, pH, porosity, permeability, tortuosity or viscosity}</li> </ul>	25/30	<ul style="list-style-type: none"> <li>using electric temperature-responsive elements</li> </ul>
24/082	<ul style="list-style-type: none"> <li>{Measurement of solid, liquid or gas content}</li> </ul>	25/32	<ul style="list-style-type: none"> <li>using thermoelectric elements</li> </ul>
		25/34	<ul style="list-style-type: none"> <li>using mechanical temperature-responsive elements, e.g. bimetallic (bimetallic elements <i>per se</i> <a href="#">G12B 1/02</a>)</li> </ul>
		25/36	<ul style="list-style-type: none"> <li>for investigating the composition of gas mixtures</li> </ul>



25/38	. . . . using the melting or combustion of a solid	27/021	. . {before and after chemical transformation of the material}
25/385	. . . . {for investigating the composition of gas mixtures}	27/023	. . {where the material is placed in the field of a coil}
25/40	. . . the heat developed being transferred to a flowing fluid	27/025	. . . {a current being generated within the material by induction}
25/42	. . . . continuously	27/026	. . {Dielectric impedance spectroscopy (electrochemical impedance spectroscopy for measuring corrosion <a href="#">G01N 17/02</a> )}
25/44	. . . the heat developed being transferred to a fixed quantity of fluid	27/028	. . {Circuits therefor (measuring impedance <a href="#">per se</a> <a href="#">G01R 27/02</a> )}
25/46	. . . . for investigating the composition of gas mixtures	27/04	. . by investigating resistance
25/48	. . on solution, sorption, or a chemical reaction not involving combustion or catalytic oxidation	27/041	. . . {of a solid body}
25/4806	. . . {Details not adapted to a particular type of sample}	27/043	. . . {of a granular material}
25/4813	. . . . {concerning the measuring means}	27/045	. . . {Circuits (measuring resistance <a href="#">per se</a> <a href="#">G01R 27/00</a> , e.g. <a href="#">G01R 27/22</a> )}
25/482	. . . . {concerning the temperature responsive elements (measuring temperature or quantity of heat, thermally-sensitive elements <a href="#">G01K</a> ; thermoelectric devices <a href="#">H10N 10/00</a> , <a href="#">H10N 15/00</a> )}	27/046	. . . . {provided with temperature compensation}
25/4826	. . . . {concerning the heating or cooling arrangements (heating apparatus for chemical or physical laboratory apparatus in general <a href="#">B01L 7/00</a> )}	27/048	. . . {for determining moisture content of the material}
25/4833	. . . . {specially adapted for temperature scanning}	27/06	. . . of a liquid (involving electrolysis <a href="#">G01N 27/26</a> )
25/484	. . . . {Heat insulation}	27/07	. . . . Construction of measuring vessels; Electrodes therefor
25/4846	. . . {for a motionless, e.g. solid sample}	27/08	. . . . which is flowing continuously
25/4853	. . . . {Details}	27/10	. . . . Investigation or analysis specially adapted for controlling or monitoring operations or for signalling
25/486	. . . . {Sample holders}	27/12	. . . of a solid body in dependence upon absorption of a fluid; of a solid body in dependence upon reaction with a fluid {, for detecting components in the fluid}
25/4866	. . . . {by using a differential method}	27/121	. . . . {for determining moisture content, e.g. humidity, of the fluid (moisture content of the tested material <a href="#">G01N 27/048</a> )}
25/4873	. . . {for a flowing, e.g. gas sample}	27/122	. . . . {Circuits particularly adapted therefor, e.g. linearising circuits}
25/488	. . . . {Details}	27/123	. . . . {for controlling the temperature (temperature control <a href="#">per se</a> <a href="#">G05D 23/00</a> )}
25/4886	. . . . {concerning the circulation of the sample}	27/124	. . . . . {varying the temperature, e.g. in a cyclic manner}
25/4893	. . . . {by using a differential method}	27/125	. . . . {Composition of the body, e.g. the composition of its sensitive layer}
25/50	. by investigating flash-point; by investigating explosibility	27/126	. . . . . {comprising organic polymers}
25/52	. . by determining flash-point of liquids	27/127	. . . . . {comprising nanoparticles}
25/54	. . by determining explosibility	27/128	. . . . {Microapparatus}
25/56	. by investigating moisture content	27/129	. . . . {Diode type sensors, e.g. gas sensitive Schottky diodes (capacitor type sensors <a href="#">G01N 27/227</a> ; field-effect transistor type sensors <a href="#">G01N 27/414</a> )}
25/58	. . by measuring changes of properties of the material due to heat, cold or expansion	27/14	. . . of an electrically-heated body in dependence upon change of temperature
25/60	. . . for determining the wetness of steam	27/16	. . . . caused by burning or catalytic oxidation of surrounding material to be tested, e.g. of gas
25/62	. . by psychrometric means, e.g. wet-and-dry bulb thermometers	27/18	. . . . caused by changes in the thermal conductivity of a surrounding material to be tested ( <a href="#">G01N 27/20</a> takes precedence)
25/64	. . . using electric temperature-responsive elements	27/185	. . . . . {using a catharometer}
25/66	. . by investigating dew-point	27/20	. . . Investigating the presence of flaws
25/68	. . . by varying the temperature of a condensing surface	27/205	. . . . {in insulating materials}
25/70	. . . by varying the temperature of the material, e.g. by compression, by expansion	27/22	. . by investigating capacitance
25/72	. Investigating presence of flaws	27/221	. . . {by investigating the dielectric properties (using microwaves <a href="#">G01N 22/00</a> ; measuring loss factors or dielectric constants <a href="#">per se</a> <a href="#">G01R 27/26</a> )}
<b>27/00</b>	<b>Investigating or analysing materials by the use of electric, electrochemical, or magnetic means (<a href="#">G01N 3/00</a> – <a href="#">G01N 25/00</a> take precedence; measurement or testing of electric or magnetic variables or of electric or magnetic properties of materials <a href="#">G01R</a>)</b>	2027/222	. . . . {for analysing gases}
27/002	. {by investigating the work function voltage}		
27/005	. . {by determining the work function in vacuum}		
27/007	. {by investigating the electric dipolar moment (measuring piezoelectric properties <a href="#">G01R 29/22</a> )}		
27/02	. by investigating impedance		

- 27/223 . . . {for determining moisture content, e.g. humidity ([rain detectors on vehicle windows B60S 1/0825](#))}
- 27/225 . . . {by using hygroscopic materials}
- 27/226 . . . {Construction of measuring vessels; Electrodes therefor}
- 27/227 . . . {Sensors changing capacitance upon adsorption or absorption of fluid components, e.g. electrolyte-insulator-semiconductor sensors, MOS capacitors ([G01N 27/225 takes precedence](#))}
- 27/228 . . . {Circuits therefor ([measuring capacitance per se G01R 27/26](#))}
- 27/24 . . . Investigating the presence of flaws
- 27/26 . . . by investigating electrochemical variables; by using electrolysis or electrophoresis
- 27/27 . . . Association of two or more measuring systems or cells, each measuring a different parameter, where the measurement results may be either used independently, the systems or cells being physically associated, or combined to produce a value for a further parameter
- 27/28 . . . Electrolytic cell components
- 27/283 . . . {Means for supporting or introducing electrochemical probes}
- 27/286 . . . {Power or signal connectors associated therewith}
- 27/30 . . . Electrodes, e.g. test electrodes; Half-cells ([G01N 27/414 takes precedence](#))
- 27/301 . . . {Reference electrodes}
- 27/302 . . . {pH sensitive, e.g. quinhydrone, antimony or hydrogen electrodes ([ion selective electrodes G01N 27/333](#), [glass electrodes G01N 27/36](#))}
- 27/304 . . . {Gas permeable electrodes}
- 27/305 . . . {optically transparent or photoresponsive electrodes}
- 27/307 . . . {Disposable laminated or multilayered electrodes ([G01N 27/3272 takes precedence](#))}
- 27/308 . . . {at least partially made of carbon}
- 27/31 . . . Half-cells with permeable membranes, e.g. semi-porous or perm-selective membranes
- 27/32 . . . Calomel electrodes
- 27/327 . . . Biochemical electrodes {, e.g. electrical or mechanical details for [in vitro](#) measurements}
- 27/3271 . . . {Amperometric enzyme electrodes for analytes in body fluids, e.g. glucose in blood ([amperometry per se G01N 27/49](#); aspects concerning the enzyme reagent [C12Q 1/001](#))}
- 27/3272 . . . {Test elements therefor, i.e. disposable laminated substrates with electrodes, reagent and channels ([optical biosensors G01N 33/52](#))}
- 27/3273 . . . {Devices therefor, e.g. test element readers, circuitry ([details not specific to biochemical electrodes G01N 33/4875](#))}
- 27/3274 . . . {Corrective measures, e.g. error detection, compensation for temperature or hematocrit, calibration ([coding of calibration information G01N 33/48771](#))}
- 27/3275 . . . {Sensing specific biomolecules, e.g. nucleic acid strands, based on an electrode surface reaction}
- 27/3276 . . . {being a hybridisation with immobilised receptors ([using a FET type sensor G01N 27/4145](#); concerning the hybridisation [C12Q 1/68](#))}
- 27/3277 . . . {being a redox reaction, e.g. detection by cyclic voltammetry ([voltammetry per se G01N 27/42](#), [G01N 27/48](#))}
- 27/3278 . . . {involving nanosized elements, e.g. nanogaps or nanoparticles ([nanopores G01N 33/48721](#); [magnetic beads G01N 27/745](#))}
- 27/333 . . . Ion-selective electrodes or membranes ([glass electrodes G01N 27/36](#))
- 27/3335 . . . {the membrane containing at least one organic component ([G01N 27/3271 takes precedence](#); aspects concerning the enzyme reagent in enzyme electrodes [C12Q 1/001](#))}
- 27/34 . . . Dropping-mercury electrodes
- 27/36 . . . Glass electrodes
- 27/38 . . . Cleaning of electrodes
- 27/40 . . . Semi-permeable membranes or partitions
- 27/401 . . . Salt-bridge leaks; Liquid junctions
- 27/403 . . . Cells and electrode assemblies
- 27/4035 . . . {Combination of a single ion-sensing electrode and a single reference electrode ([G01N 27/406 and G01N 27/413 take precedence](#))}
- 27/404 . . . Cells with anode, cathode and cell electrolyte on the same side of a permeable membrane which separates them from the sample fluid {, e.g. Clark-type oxygen sensors}
- 27/4045 . . . {for gases other than oxygen}
- 27/406 . . . Cells and probes with solid electrolytes
- 27/4062 . . . {Electrical connectors associated therewith}
- 27/4065 . . . {Circuit arrangements specially adapted therefor}
- 27/4067 . . . {Means for heating or controlling the temperature of the solid electrolyte}
- 27/407 . . . for investigating or analysing gases {([G01N 27/411 takes precedence](#))}
- 27/4071 . . . {using sensor elements of laminated structure}
- 27/4072 . . . {characterized by the diffusion barrier}
- 27/4073 . . . {Composition or fabrication of the solid electrolyte}
- 27/4074 . . . {for detection of gases other than oxygen}
- 27/4075 . . . {Composition or fabrication of the electrodes and coatings thereon, e.g. catalysts}
- 27/4076 . . . {Reference electrodes or reference mixtures}
- 27/4077 . . . {Means for protecting the electrolyte or the electrodes}
- 27/4078 . . . {Means for sealing the sensor element in a housing}
- 27/409 . . . Oxygen concentration cells
- 27/41 . . . Oxygen pumping cells
- 27/411 . . . for investigating or analysing of liquid metals

- 27/4111 . . . . . {using sensor elements of laminated structure}
- 27/4112 . . . . . {Composition or fabrication of the solid electrolyte}
- 27/4114 . . . . . {for detection of gases other than oxygen}
- 27/4115 . . . . . {Composition or fabrication of the electrodes and coatings thereon, e.g. catalysts}
- 27/4117 . . . . . {Reference electrodes or reference mixtures}
- 27/4118 . . . . . {Means for protecting the electrolyte or the electrodes}
- 27/413 . . . Concentration cells using liquid electrolytes {measuring currents or voltages in voltaic cells}
- 27/414 . . . Ion-sensitive or chemical field-effect transistors, i.e. ISFETS or CHEMFETS
- 27/4141 . . . . {specially adapted for gases}
- 27/4143 . . . . {Air gap between gate and channel, i.e. suspended gate [SG] FETs (work function measurement [per se G01N 27/002](#))}
- 27/4145 . . . . {specially adapted for biomolecules, e.g. gate electrode with immobilised receptors}
- 27/4146 . . . . {involving nanosized elements, e.g. nanotubes, nanowires}
- 27/4148 . . . . {Integrated circuits therefor, e.g. fabricated by CMOS processing ([CMOS processing per se H01L 21/82](#))}
- 27/416 . . . Systems ([G01N 27/27 takes precedence](#))
- 27/4161 . . . {measuring the voltage and using a constant current supply, e.g. chronopotentiometry}
- 27/4162 . . . {investigating the composition of gases, by the influence exerted on ionic conductivity in a liquid (conductometry in general [G01N 27/06](#); amperometric gas sensors [G01N 27/404](#))}
- 27/4163 . . . {checking the operation of, or calibrating, the measuring apparatus ([G01N 27/3274](#), [G01N 27/4175](#) and [G01N 33/0006](#) take precedence)}
- 27/4165 . . . . {for pH meters}
- 27/4166 . . . {measuring a particular property of an electrolyte}
- 27/4167 . . . . {pH (electrodes therefor [G01N 27/302](#), [G01N 27/36](#))}
- 27/4168 . . . . {Oxidation-reduction potential, e.g. for chlorination of water (water analysis [G01N 33/18](#))}
- 27/417 . . . using cells {, i.e. more than one cell} and probes with solid electrolytes
- 27/4175 . . . . {Calibrating or checking the analyser}
- 27/419 . . . . Measuring voltages or currents with a combination of oxygen pumping cells and oxygen concentration cells
- 27/42 . . . Measuring deposition or liberation of materials from an electrolyte; Coulometry, i.e. measuring coulomb-equivalent of material in an electrolyte
- 27/423 . . . . {Coulometry}
- 27/426 . . . . {by weighing}
- 27/44 . . . . using electrolysis to generate a reagent, e.g. for titration
- 27/447 . . . using electrophoresis
- 27/44704 . . . . {Details; Accessories}
- 27/44708 . . . . . {Cooling}
- 27/44713 . . . . . {Particularly adapted electric power supply}
- 27/44717 . . . . . {Arrangements for investigating the separated zones, e.g. localising zones}
- 27/44721 . . . . . {by optical means}
- 27/44726 . . . . . {using specific dyes, markers or binding molecules}
- 27/4473 . . . . . {by electric means}
- 27/44734 . . . . . {by thermal means}
- 27/44739 . . . . . {Collecting the separated zones, e.g. blotting to a membrane or punching of gel spots}
- 27/44743 . . . . . {Introducing samples}
- 27/44747 . . . . . {Composition of gel or of carrier mixture}
- 27/44752 . . . . . {Controlling the zeta potential, e.g. by wall coatings}
- 27/44756 . . . . {Apparatus specially adapted therefor}
- 27/4476 . . . . . {of the density gradient type}
- 27/44765 . . . . . {of the counter-flow type}
- 27/44769 . . . . . {Continuous electrophoresis, i.e. the sample being continuously introduced, e.g. free flow electrophoresis [FFE]}
- 27/44773 . . . . . {Multi-stage electrophoresis, e.g. two-dimensional electrophoresis}
- 27/44778 . . . . . {on a common gel carrier, i.e. 2D gel electrophoresis}
- 27/44782 . . . . . {of a plurality of samples}
- 27/44786 . . . . . {of the magneto-electrophoresis type}
- 27/44791 . . . . . {Microapparatus (sample containers with integrated microfluidic structures [B01L 3/5027](#))}
- 27/44795 . . . . . {Isoelectric focusing}
- 27/453 . . . . Cells therefor
- 27/48 . . . using polarography, i.e. measuring changes in current under a slowly-varying voltage
- 27/49 . . . Systems involving the determination of the current at a single specific value, or small range of values, of applied voltage for producing selective measurement of one or more particular ionic species
- 27/60 . . . by investigating electrostatic variables {, e.g. electrographic flaw testing ([G01N 27/007](#) takes precedence)}
- 27/605 . . . {for determining moisture content, e.g. humidity}
- 27/61 . . Investigating the presence of flaws
- 27/62 . . . by investigating the ionisation of gases, e.g. aerosols; by investigating electric discharges, e.g. emission of cathode
- 27/622 . . . Ion mobility spectrometry
- 27/623 . . . combined with mass spectrometry
- 27/624 . . . Differential mobility spectrometry [DMS]; Field asymmetric-waveform ion mobility spectrometry [FAIMS]
- 27/626 . . . using heat to ionise a gas
- 27/628 . . . {and a beam of energy, e.g. laser enhanced ionisation}
- 27/64 . . . using wave or particle radiation to ionise a gas, e.g. in an ionisation chamber
- 27/66 . . . and measuring current or voltage
- 27/68 . . . using electric discharge to ionise a gas
- 27/70 . . . and measuring current or voltage
- 27/72 . . . by investigating magnetic variables

- 27/725 . . {by using magneto-acoustical effects or the Barkhausen effect}
- 27/74 . . of fluids ([G01N 24/00](#) takes precedence)
- 27/745 . . . {for detecting magnetic beads used in biochemical assays (concerning the assays [G01N 33/54326](#); sensors therefor [G01R 33/1269](#); automatic analysers therefor [G01N 35/0098](#))}
- 27/76 . . . by investigating susceptibility
- 27/80 . . for investigating mechanical hardness, e.g. by investigating saturation or remanence of ferromagnetic material
- 27/82 . . for investigating the presence of flaws
- 27/825 . . . {by using magnetic attraction force ([G01N 27/84](#) takes precedence)}
- 27/83 . . . by investigating stray magnetic fields
- 27/84 . . . . by applying magnetic powder or magnetic ink
- 27/85 . . . . using magnetographic methods
- 27/87 . . . . using probes
- 27/90 . . . . using eddy currents
- 27/9006 . . . . {Details, e.g. in the structure or functioning of sensors}
- 27/9013 . . . . Arrangements for scanning
- 27/902 . . . . . {by moving the sensors}
- 27/9026 . . . . . {by moving the material}
- 27/904 . . . . with two or more sensors
- 27/9046 . . . . {by analysing electrical signals}
- 27/9053 . . . . . {Compensating for probe to workpiece spacing}
- 27/906 . . . . . {Compensating for velocity}
- 27/9066 . . . . . {by measuring the propagation time, or delaying the signals}
- 27/9073 . . . . {Recording measured data}
- 27/908 . . . . . {synchronously with scanning}
- 27/9086 . . . . . {Calibrating of recording device}
- 27/9093 . . . . Arrangements for supporting the sensor; Combinations of eddy-current sensors and auxiliary arrangements for marking or for rejecting
- 27/92 . . by investigating breakdown voltage ([G01N 27/60](#), [G01N 27/62](#) take precedence)
- 29/00 Investigating or analysing materials by the use of ultrasonic, sonic or infrasonic waves; Visualisation of the interior of objects by transmitting ultrasonic or sonic waves through the object ([G01N 3/00](#), [G01N 5/00](#), [G01N 7/00](#), [G01N 9/00](#), [G01N 11/00](#), [G01N 13/00](#), [G01N 15/00](#), [G01N 17/00](#), [G01N 19/00](#), [G01N 21/00](#), [G01N 22/00](#), [G01N 23/00](#), [G01N 24/00](#), [G01N 25/00](#), [G01N 27/00](#) take precedence)**
- 29/02 . . Analysing fluids (using acoustic emission techniques [G01N 29/14](#) {; constructional or flow details for analysing fluids [G01N 29/222](#); optoacoustic fluid cells [G01N 29/2425](#))}
- 29/022 . . {Fluid sensors based on microsensors, e.g. quartz crystal-microbalance [QCM], surface acoustic wave [SAW] devices, tuning forks, cantilevers, flexural plate wave [FPW] devices (microdevices [per se](#) [B81B](#))}
- 29/024 . . by measuring propagation velocity or propagation time of acoustic waves
- 29/028 . . by measuring mechanical or acoustic impedance
- 29/032 . . by measuring attenuation of acoustic waves
- 29/036 . . by measuring frequency or resonance of acoustic waves
- 29/04 . . Analysing solids (using acoustic emission techniques [G01N 29/14](#))
- 29/041 . . {on the surface of the material, e.g. using Lamb, Rayleigh or shear waves}
- 29/043 . . {in the interior, e.g. by shear waves}
- 29/045 . . {by imparting shocks to the workpiece and detecting the vibrations or the acoustic waves caused by the shocks (measuring resonant frequency [G01H 13/00](#); measuring strength properties by application of mechanical stress [G01N 3/00](#))}
- 29/046 . . . {using the echo of particles imparting on a surface; using acoustic emission of particles (investigating concentration of particle suspensions [G01N 15/06](#); devices for measuring flow of solids in suspension [G01F 1/74](#))}
- 29/048 . . {Marking the faulty objects}
- 29/06 . . Visualisation of the interior, e.g. acoustic microscopy {(medical or veterinary diagnosis using sonic waves [A61B 8/00](#); representation of acoustic wave distribution [G01H 3/125](#), [G01H 9/002](#); short-range imaging systems using reflection of acoustic waves [G01S 15/8906](#))}
- 29/0609 . . . {Display arrangements, e.g. colour displays (indicating or recording in connection with measuring in general [G01D](#))}
- 29/0618 . . . . {synchronised with scanning, e.g. in real-time}
- 29/0627 . . . . . {Cathode-ray tube displays (in general [G01R 13/20](#))}
- 29/0636 . . . . . {with permanent recording}
- 29/0645 . . . . {Display representation or displayed parameters, e.g. A-, B- or C-Scan}
- 29/0654 . . . {Imaging}
- 29/0663 . . . . {by acoustic holography (acoustical holography [per se](#) [G03H 3/00](#))}
- 29/0672 . . . . {by acoustic tomography (medical tomography [A61B 8/13](#))}
- 29/0681 . . . . {by acoustic microscopy, e.g. scanning acoustic microscopy}
- 29/069 . . . . {Defect imaging, localisation and sizing using, e.g. time of flight diffraction [TOFD], synthetic aperture focusing technique [SAFT], Amplituden-Laufzeit-Ortskurven [ALOK] technique}
- 29/07 . . by measuring propagation velocity or propagation time of acoustic waves
- 29/075 . . . {by measuring or comparing phase angle (measuring frequencies or phase angles [per se](#) [G01R 23/00](#), [G01R 25/00](#))}
- 29/09 . . by measuring mechanical or acoustic impedance
- 29/11 . . by measuring attenuation of acoustic waves
- 29/12 . . by measuring frequency or resonance of acoustic waves {(measuring frequency or resonant frequency of mechanical vibrations or acoustic waves in general [G01H 1/06](#), [G01H 3/04](#), [G01H 13/00](#); acoustic resonators [G10K 11/04](#); vibration or shock testing of structures [G01M 7/00](#))}



- 29/14 . . . using acoustic emission techniques [{\(echo of particles G01N 29/046; measuring mechanical vibrations or acoustic waves in solids in general G01H 1/00\)}](#)
- 29/22 . . Details [{, e.g. general constructional or apparatus details}](#)
- 29/221 . . [{Arrangements for directing or focusing the acoustical waves \(electronic orientation or focusing G01N 29/262; sound directing or focusing G10K 11/26; mechanical steering of sound transducers or their beams G10K 11/35\)}](#)
- 29/222 . . [{Constructional or flow details for analysing fluids \(optoacoustic fluid cells G01N 29/2425\)}](#)
- 29/223 . . [{Supports, positioning or alignment in fixed situation \(mounting transducers per se G10K 11/004\)}](#)
- 29/225 . . [{Supports, positioning or alignment in moving situation}](#)
- 29/226 . . . [{Handheld or portable devices}](#)
- 29/227 . . [{related to high pressure, tension or stress conditions}](#)
- 29/228 . . [{related to high temperature conditions}](#)
- 29/24 . . Probes [{\(transducers for acoustic waves B06B, G10K; for measuring G01H\)}](#)
- 29/2406 . . . [{Electrostatic or capacitive probes, e.g. electret or cMUT-probes}](#)
- 29/2412 . . . [{using the magnetostrictive properties of the material to be examined, e.g. electromagnetic acoustic transducers \[EMAT\]; \(investigating the presence of flaws using eddy currents G01N 27/90, magnetostrictive transducers B06B 1/08, measuring magnetostrictive properties G01R 33/18\)}](#)
- 29/2418 . . . [{using optoacoustic interaction with the material, e.g. laser radiation, photoacoustics \(photoacoustic cells G01N 21/1702; measuring characteristics of vibrations by using radiation-sensitive means G01H 9/00; acousto-optical conversion techniques for short-range imaging G01S 15/8965; sound-producing devices using laser bundle G10K 15/046\)}](#)
- 29/2425 . . . . [{optoacoustic fluid cells therefor}](#)
- 29/2431 . . . [{using other means for acoustic excitation, e.g. heat, microwaves, electron beams \(sound producing devices not otherwise provided for G10K 15/04\)}](#)
- 29/2437 . . . [{Piezoelectric probes}](#)
- 29/2443 . . . . [{Quartz crystal probes}](#)
- 29/245 . . . . [{Ceramic probes, e.g. lead zirconate titanate \[PZT\] probes}](#)
- 29/2456 . . . [{Focusing probes \(focusing arrangements G01N 29/221\)}](#)
- 29/2462 . . . [{Probes with waveguides, e.g. SAW devices}](#)
- 29/2468 . . . [{Probes with delay lines}](#)
- 29/2475 . . . [{Embedded probes, i.e. probes incorporated in objects to be inspected}](#)
- 29/2481 . . . [{Wireless probes, e.g. with transponders or radio links}](#)
- 29/2487 . . . [{Directing probes, e.g. angle probes \(directing arrangements G01N 29/221\)}](#)
- 29/2493 . . . . [{Wheel shaped probes}](#)
- 29/26 . . Arrangements for orientation or scanning [{by relative movement of the head and the sensor \(mechanical steering of sound transducers or their beams G10K 11/35\)}](#)
- 29/262 . . . . [{by electronic orientation or focusing, e.g. with phased arrays \(phased arrays per se G10K 11/34\)}](#)
- 29/265 . . . . by moving the sensor relative to a stationary material
- 29/27 . . . . by moving the material relative to a stationary sensor
- 29/275 . . . . by moving both the sensor and the material
- 29/28 . . providing acoustic coupling [{, e.g. water \(impedance matching G10K 11/02\)}](#)
- 29/30 . . Arrangements for calibrating or comparing, e.g. with standard objects
- 29/32 . . Arrangements for suppressing undesired influences, e.g. temperature or pressure variations [{, compensating for signal noise}](#)
- 29/323 . . . . [{compensating for pressure or tension variations}](#)
- 29/326 . . . . [{compensating for temperature variations}](#)
- 29/34 . . Generating the ultrasonic, sonic or infrasonic waves [{, e.g. electronic circuits specially adapted therefor}](#)
- 29/341 . . [{with time characteristics}](#)
- 29/343 . . . . [{pulse waves, e.g. particular sequence of pulses, bursts}](#)
- 29/345 . . . . [{continuous waves}](#)
- 29/346 . . [{with amplitude characteristics, e.g. modulated signal}](#)
- 29/348 . . [{with frequency characteristics, e.g. single frequency signals, chirp signals \(measuring frequency of mechanical vibrations or acoustic waves in general G01H 1/06, G01H 3/04; measuring frequency or analysing frequency spectra G01R 23/00\)}](#)
- 29/36 . . Detecting the response signal [{, e.g. electronic circuits specially adapted therefor}](#)
- 29/38 . . by time filtering, e.g. using time gates
- 29/40 . . by amplitude filtering, e.g. by applying a threshold [{or by gain control}](#)
- 29/42 . . by frequency filtering [{or by tuning to resonant frequency}](#)
- 29/44 . . Processing the detected response signal [{, e.g. electronic circuits specially adapted therefor \(digital signal processing per se G06F 17/00\)}](#)
- 29/4409 . . [{by comparison}](#)
- 29/4418 . . . . [{with a model, e.g. best-fit, regression analysis}](#)
- 29/4427 . . . . [{with stored values, e.g. threshold values}](#)
- 29/4436 . . . . [{with a reference signal \(amplitude comparison G01N 29/48\)}](#)
- 29/4445 . . [{Classification of defects}](#)
- 29/4454 . . [{Signal recognition, e.g. specific values or portions, signal events, signatures}](#)
- 29/4463 . . [{Signal correction, e.g. distance amplitude correction \[DAC\], distance gain size \[DGS\], noise filtering}](#)
- 29/4472 . . [{Mathematical theories or simulation}](#)
- 29/4481 . . [{Neural networks}](#)
- 29/449 . . [{Statistical methods not provided for in G01N 29/4409, e.g. averaging, smoothing and interpolation}](#)
- 29/46 . . by spectral analysis, e.g. Fourier analysis [{or wavelet analysis \(spectral signal processing per se G06F 17/14\)}](#)
- 29/48 . . by amplitude comparison

29/50	. . using auto-correlation techniques or cross-correlation techniques	30/08	. . . . using an enricher
29/52	. . using inversion methods other than spectral analysis, e.g. conjugated gradient inversion	2030/085	. . . . {using absorbing precolumn}
<b>30/00</b>	<b>Investigating or analysing materials by separation into components using adsorption, absorption or similar phenomena or using ion-exchange, e.g. chromatography {or field flow fractionation}</b> ( <a href="#">G01N 3/00</a> , <a href="#">G01N 5/00</a> , <a href="#">G01N 7/00</a> , <a href="#">G01N 9/00</a> , <a href="#">G01N 11/00</a> , <a href="#">G01N 13/00</a> , <a href="#">G01N 15/00</a> , <a href="#">G01N 17/00</a> , <a href="#">G01N 19/00</a> , <a href="#">G01N 21/00</a> , <a href="#">G01N 22/00</a> , <a href="#">G01N 23/00</a> , <a href="#">G01N 24/00</a> , <a href="#">G01N 25/00</a> , <a href="#">G01N 27/00</a> , <a href="#">G01N 29/00</a> take precedence)	30/10	. . . . using a splitter
	<b>NOTE</b>	30/12	. . . . by evaporation
	In this group, the following term is used with the meaning indicated:	2030/121	. . . . {cooling; cold traps}
	• "conditioning" refers to the adjustment or control of environmental parameters, e.g. temperature or pressure.	2030/122	. . . . {cryogenic focusing}
30/0005	. {Field flow fractionation}	2030/123	. . . . {using more than one trap}
2030/001	. . {hydrodynamic fractionation, e.g. CHDF or HDC}	2030/125	. . . . {pyrolysing}
2030/0015	. . {characterised by driving force}	2030/126	. . . . {evaporating sample}
2030/002	. . . {sedimentation or centrifugal FFF}	2030/127	. . . . {PTV evaporation}
2030/0025	. . . {cross flow FFF}	2030/128	. . . . {Thermal desorption analysis}
2030/003	. . . . {Asymmetrical flow}	30/14	. . . . by elimination of some components
2030/0035	. . . {electrical field}	2030/143	. . . . {selective absorption}
2030/004	. . {characterised by opposing force}	2030/146	. . . . {using membranes}
2030/0045	. . . {normal, i.e. diffusion or thermal FFF}	30/16	. . . Injection ( <a href="#">G01N 30/24</a> takes precedence)
2030/005	. . . {steric FFF, i.e. diffusion negligible for larger particles; separation due to protrusion depth into carrier flow profile}	2030/162	. . . . {electromigration}
2030/0055	. . . {hyperlayer, i.e. different particle populations in hyperlayers elevated above wall}	2030/165	. . . . {retention gaps}
2030/006	. . . . {lift hyperlayer, i.e. hydrodynamic lift forces dominate steric effect}	2030/167	. . . . {on-column injection}
2030/0065	. . . {Dielectric FFF, i.e. opposing forces dominate hydrodynamic lift forces and steric effects}	30/18	. . . . using a septum or microsyringe
2030/007	. . {programming of driving force ( <a href="#">carrier programming G01N 30/02</a> )}	2030/185	. . . . {specially adapted to seal the inlet}
2030/0075	. {Separation due to differential desorption}	30/20	. . . . using a sampling valve
2030/008	. . {Thermal desorption}	2030/201	. . . . {multiport valves, i.e. having more than two ports}
2030/0085	. . {the desorption energy being adapted to sample, e.g. laser tuned to molecular bonds}	2030/202	. . . . {rotary valves}
2030/009	. {Extraction}	2030/204	. . . . {Linearly moving valves, e.g. sliding valves}
2030/0095	. {Separation specially adapted for use outside laboratory, e.g. field sampling, portable equipments}	2030/205	. . . . {Diaphragm valves, e.g. deformed member closing the passage}
30/02	. Column chromatography	2030/207	. . . . {with metering cavity, e.g. sample loop}
2030/022	. . {characterised by the kind of separation mechanism}	2030/208	. . . . {with more than one cavity}
2030/025	. . . {Gas chromatography}	30/22	. . . . in high pressure liquid systems
2030/027	. . . {Liquid chromatography}	30/24	. . . Automatic injection systems
30/04	. . Preparation or injection of sample to be analysed	30/26	. . Conditioning of the fluid carrier; Flow patterns
2030/042	. . . {Standards}	30/28	. . . Control of physical parameters of the fluid carrier
2030/045	. . . . {internal}	2030/285	. . . . {electrically driven carrier}
2030/047	. . . . {external}	30/30	. . . . of temperature
30/06	. . . Preparation	2030/3007	. . . . {same temperature for whole column}
2030/062	. . . . {extracting sample from raw material}	2030/3015	. . . . {temperature gradients along column}
2030/065	. . . . {using different phases to separate parts of sample}	2030/3023	. . . . {using cryogenic fluids}
2030/067	. . . . {by reaction, e.g. derivatising the sample}	2030/303	. . . . {using peltier elements}
		2030/3038	. . . . {temperature control of column exit, e.g. of restrictors}
		2030/3046	. . . . {temperature control of column inlet}
		2030/3053	. . . . {using resistive heating}
		2030/3061	. . . . {column or associated structural member used as heater}
		2030/3069	. . . . {electrical resistance used to determine control temperature}
		2030/3076	. . . . {using specially adapted T(t) profile}
		2030/3084	. . . . {ovens}
		2030/3092	. . . . {Heat exchange between incoming and outgoing mobile phase}
		30/32	. . . . of pressure or speed ( <a href="#">G01N 30/36</a> takes precedence)
		2030/322	. . . . {pulse dampers}
		2030/324	. . . . {speed, flow rate}
		2030/326	. . . . {pumps}
		2030/328	. . . . {valves, e.g. check valves of pumps}
		30/34	. . . . of fluid composition, e.g. gradient ( <a href="#">G01N 30/36</a> takes precedence)
		2030/342	. . . . {fluid composition fixed during analysis}

2030/345	. . . . .	{fluid electrical conductivity fixed during analysis}	30/6021	. . . . .	{Adjustable pistons}
2030/347	. . . . .	{mixers}	30/6026	. . . . .	{Fluid seals}
30/36	. . . . .	in high pressure liquid systems	30/603	. . . . .	{retaining the stationary phase, e.g. Frits}
30/38	. . . . .	Flow patterns	30/6034	. . . . .	{joining multiple columns}
2030/381	. . . . .	{centrifugal chromatography}	30/6039	. . . . .	{in series}
2030/382	. . . . .	{flow switching in a single column}	30/6043	. . . . .	{in parallel}
2030/383	. . . . .	{by using auxiliary fluid}	30/6047	. . . . .	{with supporting means; Holders}
2030/385	. . . . .	{by switching valves}	30/6052	. . . . .	{body}
2030/386	. . . . .	{Radial chromatography, i.e. with mobile phase traversing radially the stationary phase}	30/606	. . . . .	{with fluid access or exit ports}
2030/387	. . . . .	{Turbulent flow of mobile phase}	30/6065	. . . . .	{with varying cross section}
2030/388	. . . . .	{Elution in two different directions on one stationary phase}	30/6069	. . . . .	{with compartments or bed substructure}
30/40	. . . . .	using back flushing	30/6073	. . . . .	{in open tubular form}
2030/402	. . . . .	{purging a device}	30/6078	. . . . .	{Capillaries}
2030/405	. . . . .	{re-concentrating or inverting previous separation}	30/6082	. . . . .	{transparent to radiation}
2030/407	. . . . .	{carrying out another separation}	30/6086	. . . . .	{form designed to optimise dispersion}
30/42	. . . . .	using counter-current	30/6091	. . . . .	{Cartridges}
30/44	. . . . .	using recycling of the fraction to be distributed	30/6095	. . . . .	{Micromachined or nanomachined, e.g. micro- or nanosize}
2030/445	. . . . .	{heart cut}	<b>NOTE</b>		
30/46	. . . . .	using more than one column ( <a href="#">G01N 30/44</a> takes precedence)	Attention is drawn to the Notes following the titles of class <a href="#">B81</a> and subclass <a href="#">B81B</a> relating to "microstructural devices" and "microstructural systems" and the Notes following the title of subclass <a href="#">B82B</a> relating to "nanostructures"		
30/461	. . . . .	{with serial coupling of separation columns}	30/62	. . . . .	Detectors specially adapted therefor
30/462	. . . . .	{with different eluents or with eluents in different states ( <a href="#">G01N 30/463</a> takes precedence)}	2030/621	. . . . .	{signal-to-noise ratio}
30/463	. . . . .	{for multidimensional chromatography}	2030/623	. . . . .	{by modulation of sample feed or detector response}
30/465	. . . . .	{with specially adapted interfaces between the columns}	2030/625	. . . . .	{by measuring reference material, e.g. carrier without sample}
30/466	. . . . .	{with separation columns in parallel}	2030/626	. . . . .	{calibration, baseline}
30/467	. . . . .	{all columns being identical}	2030/628	. . . . .	{Multiplexing, i.e. several columns sharing a single detector}
30/468	. . . . .	{involving switching between different column configurations}	30/64	. . . . .	Electrical detectors
30/50	. . . . .	Conditioning of the sorbent material or stationary liquid	2030/642	. . . . .	{photoionisation detectors}
30/52	. . . . .	Physical parameters	2030/645	. . . . .	{electrical conductivity detectors}
2030/521	. . . . .	{form}	2030/647	. . . . .	{surface ionisation}
2030/522	. . . . .	{pressure}	30/66	. . . . .	Thermal conductivity detectors
2030/524	. . . . .	{structural properties}	30/68	. . . . .	Flame ionisation detectors
2030/525	. . . . .	{surface properties, e.g. porosity}	2030/685	. . . . .	{flame photometry}
2030/527	. . . . .	{sorbent material in form of a membrane}	30/70	. . . . .	Electron capture detectors
2030/528	. . . . .	{Monolithic sorbent material}	30/72	. . . . .	Mass spectrometers ( <a href="#">mass spectrometers per se H01J 49/00</a> )
30/54	. . . . .	Temperature	30/7206	. . . . .	{interfaced to gas chromatograph ( <a href="#">interfaces in general for introducing or extracting samples to be analysed with specially adapted mass spectrometer, see H01J 49/04</a> )}
30/56	. . . . .	Packing methods or coating methods	30/7213	. . . . .	{splitting of the gaseous effluent}
2030/562	. . . . .	{packing}	30/722	. . . . .	{through a gas permeable barrier (membranes, porous layers)}
2030/565	. . . . .	{slurry packing}	2030/7226	. . . . .	{OWTC, short capillaries or transfer line used as column}
2030/567	. . . . .	{coating}	30/7233	. . . . .	{interfaced to liquid or supercritical fluid chromatograph ( <a href="#">interfaces in general for introducing or extracting samples to be analysed with specially adapted mass spectrometer, see H01J 49/04</a> )}
30/58	. . . . .	the sorbent moving as a whole	30/724	. . . . .	{Nebulising, aerosol formation or ionisation ( <a href="#">spraying or atomising in general B05B</a> )}
2030/582	. . . . .	{micellar electrokinetic capillary chromatography [MECC]}	30/7246	. . . . .	{by pneumatic means}
2030/585	. . . . .	{Parallel current chromatography}			
2030/587	. . . . .	{Continuous annular chromatography}			
30/60	. . . . .	Construction of the column			
30/6004	. . . . .	{end pieces}			
2030/6008	. . . . .	{capillary restrictors}			
2030/6013	. . . . .	{interfaces to detectors}			
30/6017	. . . . .	{Fluid distributors}			

30/7253	. . . . . {by thermal means, e.g. thermospray}	30/8655	. . . . {Details of data formats}
30/726	. . . . . {by electrical or glow discharge}	30/8658	. . . {Optimising operation parameters}
30/7266	. . . . . {by electric field, e.g. electrospray}	30/8662	. . . . {Expert systems; optimising a large number of parameters}
30/7273	. . . . . {Desolvation chambers}	30/8665	. . . {for calibrating the measuring apparatus}
30/728	. . . . {Intermediate storage of effluent, including condensation on surface}	30/8668	. . . . {using retention times}
30/7286	. . . . . {the store moving as a whole, e.g. moving wire}	30/8672	. . . . {not depending on an individual instrument, e.g. retention time indexes or calibration transfer}
30/7293	. . . . {Velocity or momentum separators}	30/8675	. . . {Evaluation, i.e. decoding of the signal into analytical information (for analysis of specific compounds see also G01N 30/88 and subgroups of G01N 33/00; chemical libraries per se C40B)}
30/74	. . . Optical detectors {(measurement of intensity, velocity, spectral content, polarisation, or phase of infrared, visible or ultraviolet light G01J)}	30/8679	. . . . {Target compound analysis, i.e. whereby a limited number of peaks is analysed}
2030/743	. . . . {FTIR}	30/8682	. . . . {Group type analysis, e.g. of components having structural properties in common}
2030/746	. . . . {detecting along the line of flow, e.g. axial}	30/8686	. . . . {Fingerprinting, e.g. without prior knowledge of the sample components}
30/76	. . . Acoustical detectors {(measurement of mechanical vibrations or ultrasonic, sonic or infrasonic waves G01H)}	30/8689	. . . . {Peak purity of co-eluting compounds}
2030/765	. . . . {for measuring mechanical vibrations}	30/8693	. . . {Models, e.g. prediction of retention times, method development and validation}
2030/77	. . . {detecting radioactive properties}	30/8696	. . . {Details of Software}
30/78	. . . using more than one detector	30/88	. . Integrated analysis systems specially adapted therefor, not covered by a single one of the groups G01N 30/04 - G01N 30/86
30/80	. . Fraction collectors	2030/8804	. . . {automated systems}
30/82	. . . Automatic means therefor	2030/8809	. . . {analysis specially adapted for the sample}
30/84	. . Preparation of the fraction to be distributed	2030/8813	. . . . {biological materials}
2030/8405	. . . {using pyrolysis}	2030/8818	. . . . . {involving amino acids}
2030/8411	. . . {Intermediate storage of effluent, including condensation on surface}	2030/8822	. . . . . {involving blood}
2030/8417	. . . . {the store moving as a whole, e.g. moving wire}	2030/8827	. . . . . {involving nucleic acids}
2030/8423	. . . {using permeable separator tubes}	2030/8831	. . . . . {involving peptides or proteins}
2030/8429	. . . {adding modifying material}	2030/8836	. . . . . {involving saccharides}
2030/8435	. . . . {for chemical reaction}	2030/884	. . . . {organic compounds}
2030/8441	. . . . {to modify physical properties}	2030/8845	. . . . . {involving halogenated organic compounds}
2030/8447	. . . {Nebulising, aerosol formation or ionisation}	2030/885	. . . . . {involving polymers}
2030/8452	. . . . {Generation of electrically charged aerosols or ions}	2030/8854	. . . . . {involving hydrocarbons}
2030/8458	. . . . . {of ions or clusters of individual ions}	2030/8859	. . . . . {inorganic compounds}
2030/8464	. . . . {Uncharged atoms or aerosols}	2030/8863	. . . . . {Fullerenes}
2030/847	. . . . {by pneumatic means}	2030/8868	. . . . {elemental analysis, e.g. isotope dilution analysis}
2030/8476	. . . . {by thermal means}	2030/8872	. . . . {impurities}
2030/8482	. . . . {by electrical or glow discharge}	2030/8877	. . . . {optical isomers}
2030/8488	. . . . {by electric field}	2030/8881	. . . {Modular construction, specially adapted therefor}
2030/8494	. . . . {Desolvation chambers}	2030/8886	. . . {Analysis of industrial production processes}
30/86	. . Signal analysis	2030/889	. . . {monitoring the quality of the stationary phase; column performance}
30/8603	. . . {with integration or differentiation}	2030/8895	. . . {Independent juxtaposition of embodiments; Reviews}
30/8606	. . . . {Integration}	30/89	. Inverse chromatography
30/861	. . . . {Differentiation}	30/90	. Plate chromatography, e.g. thin layer or paper chromatography
30/8613	. . . . {Dividing or multiplying by a constant}	2030/903	. . {centrifugal chromatography}
30/8617	. . . . {Filtering, e.g. Fourier filtering}	2030/906	. . {pressurised fluid phase}
2030/862	. . . . {Other mathematical operations for data preprocessing}	30/91	. . Application of the sample
30/8624	. . . {Detection of slopes or peaks; baseline correction}	30/92	. . Construction of the plate
30/8627	. . . . {Slopes}	30/93	. . . Application of the sorbent layer
30/8631	. . . . {Peaks}	30/94	. . Development
30/8634	. . . . . {Peak quality criteria}	2030/945	. . . {Application of reagents to undeveloped plate}
30/8637	. . . . . {Peak shape}		
30/8641	. . . . {Baseline}		
30/8644	. . . . {Data segmentation, e.g. time windows}		
2030/8648	. . . . {Feature extraction not otherwise provided for}		
30/8651	. . . {Recording, data acquisition, archiving and storage}		



30/95	. . Detectors specially adapted therefor; Signal analysis			{This Note corresponds to IPC Note (1) relating to <a href="#">G01N 33/52</a> - <a href="#">G01N 33/98</a> .}
30/96	. using ion-exchange ( <a href="#">G01N 30/02</a> , <a href="#">G01N 30/90</a> take precedence)	33/0001	. {by organoleptic means}	
2030/965	. . {suppressor columns}	2033/0003	. {Composite materials}	
<b>31/00</b>	<b>Investigating or analysing non-biological materials by the use of the chemical methods specified in the subgroup; Apparatus specially adapted for such methods</b>	33/0004	. {Gaseous mixtures, e.g. polluted air (gaseous biological material <a href="#">G01N 33/497</a> ; exhaust gas of internal combustion engines <a href="#">G01M 15/102</a> )}	
31/002	. {Determining nitrogen by transformation into ammonia, e.g. KJELDAHL method}	33/0006	. . {Calibrating gas analysers}	
31/005	. {investigating the presence of an element by oxidation ( <a href="#">G01N 31/12</a> takes precedence)}	33/0008	. . . {Details concerning storage of calibration data, e.g. in EEPROM}	
31/007	. . {by measuring the quantity of water resulting therefrom ( <a href="#">G01N 31/12</a> takes precedence)}	33/0009	. . {General constructional details of gas analysers, e.g. portable test equipment ( <a href="#">G01N 1/22</a> takes precedence)}	
	<b>NOTE</b>	33/0011	. . . {Sample conditioning (in general <a href="#">G01N 1/28</a> )}	
	The observation of the progress of the reaction specified below by any of the methods specified in groups <a href="#">G01N 3/00</a> - <a href="#">G01N 3/00</a> - <a href="#">G01N 29/00</a> , if this is of major importance, is dealt with in the group concerned.	33/0013	. . . . {by a chemical reaction ( <a href="#">G01N 33/0024</a> takes precedence)}	
31/02	. using precipitation ({ <a href="#">measuring deposition or liberation of materials from an electrolyte</a> <a href="#">G01N 27/42</a> )}	33/0014	. . . . {by eliminating a gas ( <a href="#">G01N 33/0013</a> and <a href="#">G01N 33/0024</a> take precedence)}	
31/10	. using catalysis	33/0016	. . . . {by regulating a physical variable, e.g. pressure, temperature}	
31/12	. using combustion ( <a href="#">G01N 25/20</a> takes precedence)	33/0018	. . . . {by diluting a gas}	
31/16	. using titration	2033/0019	. . . . {by preconcentration}	
31/162	. . {Determining the equivalent point by means of a discontinuity}	33/0021	. . . . {involving the use of a carrier gas for transport to the sensor}	
31/164	. . . {by electrical or electrochemical means}	33/0022	. . . . {using a number of analysing channels}	
31/166	. . {Continuous titration of flowing liquids}	33/0024	. . . . {a chemical reaction taking place or a gas being eliminated in one or more channels}	
31/168	. . {Determining water content by using Karl Fischer reagent}	33/0026	. . . {use of an alternating circulation of another gas ( <a href="#">calibrating gas analysers</a> <a href="#">G01N 33/0006</a> )}	
31/18	. . Burettes specially adapted for titration	33/0027	. . . {concerning the detector}	
31/20	. using microanalysis, e.g. drop reaction	33/0029	. . . . {cleaning}	
31/22	. using chemical indicators ( <a href="#">G01N 31/02</a> takes precedence)	33/0031	. . . . {comprising two or more sensors, e.g. a sensor array ( <a href="#">electrochemical electrode arrays</a> <a href="#">G01N 27/27</a> )}	
31/221	. . {for investigating pH value}	33/0032	. . . . . {using two or more different physical functioning modes}	
31/222	. . {for investigating moisture content}	33/0034	. . . . . {comprising neural networks or related mathematical techniques}	
31/223	. . {for investigating presence of specific gases or aerosols ( <a href="#">G01N 31/221</a> , <a href="#">G01N 31/222</a> take precedence; actuation of fire alarm by presence of smoke or gases <a href="#">G08B 17/10</a> )}	33/0036	. . . . {Specially adapted to detect a particular component (all the other sub-groups of <a href="#">G01N 33/0004</a> take precedence)}	
31/224	. . . {for investigating presence of dangerous gases}	33/0037	. . . . . {for NO <sub>x</sub> }	
31/225	. . . {for oxygen, e.g. including dissolved oxygen}	33/0039	. . . . . {for O <sub>3</sub> }	
31/226	. . {for investigating the degree of sterilisation}	33/004	. . . . . {for CO, CO <sub>2</sub> }	
31/227	. . {for nitrates or nitrites}	33/0042	. . . . . {for SO <sub>2</sub> , SO <sub>3</sub> }	
31/228	. . {for peroxides}	33/0044	. . . . . {for H <sub>2</sub> S, sulfides}	
31/229	. . {for investigating time/temperature history}	33/0045	. . . . . {for Hg}	
<b>33/00</b>	<b>Investigating or analysing materials by specific methods not covered by groups <a href="#">G01N 1/00</a> - <a href="#">G01N 31/00</a></b>	33/0047	. . . . . {for organic compounds}	
	<b>NOTE</b>	33/0049	. . . . . {for halogenated organic compounds}	
	In groups <a href="#">G01N 33/52</a> - <a href="#">G01N 33/98</a> , the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.	33/005	. . . . . {for H <sub>2</sub> }	
		33/0052	. . . . . {for gaseous halogens}	
		33/0054	. . . . . {for ammonia}	
		33/0055	. . . . . {for radionuclides}	
		33/0057	. . . . . {for warfare agents or explosives (properties of explosives <a href="#">G01N 33/227</a> )}	
		33/0059	. . . . . {avoiding interference of a gas with the gas to be measured}	
		33/006	. . . . . {avoiding interference of water vapour with the gas to be measured}	
		33/0062	. . . {concerning the measuring method, e.g. intermittent, or the display, e.g. digital}	

- 33/0063 . . . . {using a threshold to release an alarm or displaying means ([alarm arrangements G08B](#), e.g. fire alarm actuated by the presence of smoke or gases [G08B 17/10](#), for other abnormal conditions [G08B 21/00](#))}
- 33/0065 . . . . . {using more than one threshold}
- 33/0067 . . . . {by measuring the rate of variation of the concentration}
- 2033/0068 . . . . {using a computer specifically programmed}
- 33/007 . . . {Arrangements to check the analyser ([calibrating G01N 33/0006](#))}
- 2033/0072 . . . . {by generating a test gas}
- 33/0073 . . . {Control unit therefor}
- 33/0075 . . . . {for multiple spatially distributed sensors, e.g. for environmental monitoring ([transmission systems for measured values G08C](#))}
- 2033/0077 . {testing material properties on individual granules or tablets}
- 2033/0078 . {testing material properties on manufactured objects}
- 2033/008 . . {sport articles (balls, skis, rackets)}
- 2033/0081 . . {containers; packages; bottles}
- 2033/0083 . . {vehicle parts}
- 2033/0085 . . . {wheels}
- 2033/0086 . . {clothes; hosiery}
- 2033/0088 . . {other articles}
- 2033/009 . . . {seals}
- 2033/0091 . {Powders}
- 2033/0093 . {radioactive materials}
- 2033/0095 . {Semiconductive materials}
- 2033/0096 . {testing material properties on thin layers or coatings}
- 33/0098 . {Plants or trees ([wood G01N 33/46](#))}
- 33/02 . Food
- 33/025 . . {Fruits or vegetables}
- 33/03 . . Edible oils or edible fats
- 33/04 . . Dairy products
- 33/06 . . . Determining fat content, e.g. by butyrometer
- 33/08 . . Eggs, e.g. by candling
- 33/085 . . . {by candling}
- 33/10 . . Starch-containing substances, e.g. dough
- 2033/105 . . . {Pasta}
- 33/12 . . Meat; fish
- 33/14 . . Beverages
- 33/143 . . . {containing sugar}
- 33/146 . . . {containing alcohol}
- 33/15 . Medicinal preparations {; Physical properties thereof, e.g. dissolubility ([drug screening with animal cells G01N 33/5008](#))}
- 33/18 . Water
- 33/1806 . . {biological or chemical oxygen demand (BOD or COD)}
- 33/1813 . . {specific cations in water, e.g. heavy metals ([electrochemical analysis G01N 27/26](#); detection of ions by colorimetry [G01N 31/22](#))}
- 33/182 . . {specific anions in water ([electrochemical analysis G01N 27/26](#); detection of ions by colorimetry [G01N 31/22](#))}
- 33/1826 . . {organic contamination in water}
- 33/1833 . . . {Oil in water ([water in oil G01N 33/2847](#))}
- 2033/184 . . . {herbicides, pesticides, fungicides, insecticides, or the like}
- 33/1846 . . . {Total carbon analysis}
- 33/1853 . . {hardness of water}
- 33/186 . . {using one or more living organisms, e.g. a fish}
- 33/1866 . . . {using microorganisms ([G01N 33/1806](#) takes precedence)}
- 2033/1873 . . {ice or snow}
- 33/188 . . {Determining the state of nitrification ([biological treatment of water by aerobic or anaerobic processes for denitrification of water C02F 3/305](#))}
- 33/1886 . . {using probes, e.g. submersible probes, buoys}
- 33/1893 . . {using flow cells}
- 33/20 . Metals
- 33/202 . . Constituents thereof
- 33/2022 . . . Non-metallic constituents
- 33/2025 . . . . Gaseous constituents
- 33/2028 . . . Metallic constituents
- 33/204 . . Structure thereof, e.g. crystal structure
- 33/2045 . . . Defects
- 33/205 . . in liquid state, e.g. molten metals
- 33/207 . . Welded or soldered joints; Solderability
- 33/208 . . Coatings, e.g. platings
- 33/22 . Fuels, explosives {([liquid hydrocarbons G01N 33/28](#))}
- 33/222 . . {Solid fuels, e.g. coal}
- 33/225 . . {Gaseous fuels, e.g. natural gas}
- 33/227 . . {Explosives, e.g. combustive properties thereof ([detecting explosives in air G01N 33/0057](#))}
- 33/24 . Earth materials ([G01N 33/42](#) takes precedence)
- 33/241 . . {for hydrocarbon content ([drilling mud G01N 33/2823](#); [drilling per se E21B](#); [prospecting G01V](#))}
- 2033/243 . . {for determining biological parameters concerning composting, biodegradability or bioavailability}
- 2033/245 . . {for agricultural purposes}
- 33/246 . . {for water content ([for control of watering A01G 25/167](#))}
- 2033/248 . . {related to manure as a biological product, i.e. excluding artificial fertilizers}
- 33/26 . Oils; viscous liquids; paints; inks ([G01N 33/22](#) takes precedence)
- 33/28 . . Oils {, i.e. hydrocarbon liquids}({[gaseous fuels G01N 33/225](#);} edible oils or edible fats [G01N 33/03](#))}
- 33/2805 . . . {investigating the resistance to heat or oxidation ([to the weather, to corrosion, or to light G01N 17/00](#))}
- 33/2811 . . . {by measuring cloud point or pour point of oils}
- 33/2817 . . . {using a test engine ([testing of engines G01M 15/00](#))}
- 33/2823 . . . {raw oil, drilling fluid or polyphasic mixtures ([hydrocarbon content of earth materials G01N 33/241](#); [prospecting G01V](#); [drilling per se E21B](#))}
- 33/2829 . . . {mixtures of fuels, e.g. determining the RON-number}
- 33/2835 . . . {specific substances contained in the oil or fuel}
- 33/2841 . . . . {gas in oil, e.g. hydrogen in insulating oil}
- 33/2847 . . . . {Water in oil ([basic sediment and water G01N 33/2823](#); [oil in water G01N 33/1833](#))}

- 33/2852 . . . . {alcohol/fuel mixtures}
- 33/2858 . . . . {metal particles}
- 33/2864 . . . . {lead content}
- 33/287 . . . . {Sulfur content}
- 33/2876 . . . . {Total acid number}
- 33/2882 . . . . {Markers (marking of fuels [C10L 1/003](#))}
- 33/2888 . . . {Lubricating oil characteristics, e.g. deterioration (lubricating properties [G01N 33/30](#))}
- 33/2894 . . . {for metal working or machining}
- 33/30 . . . for lubricating properties
- 33/32 . . Paints; inks {(investigating resistance to the weather, to corrosion, to light [G01N 17/00](#))}
- 33/34 . Paper
- 33/343 . . {paper pulp}
- 33/346 . . {paper sheets}
- 33/36 . Textiles
- 33/362 . . {material before processing, e.g. bulk cotton or wool}
- 33/365 . . {filiform textiles, e.g. yarns (for measuring diameter [G01B](#))}
- 33/367 . . {Fabric or woven textiles (optical analysis of moving sheets [G01N 21/86](#))}
- 33/38 . Concrete; ceramics; glass; bricks
- 33/381 . . {precious stones; pearls}
- 33/383 . . {Concrete, cement}
- 33/385 . . {Crystals}
- 33/386 . . {Glass}
- 33/388 . . {Ceramics}
- 33/40 . Grinding-materials
- 33/42 . Road-making materials ([G01N 33/38](#) takes precedence)
- 33/44 . Resins; rubber; leather
- 33/442 . . {Resins, plastics}
- 33/445 . . {Rubber}
- 33/447 . . {Leather}
- 33/46 . Wood
- 33/48 . Biological material, e.g. blood, urine ([G01N 33/02](#), [G01N 33/26](#), [G01N 33/44](#), [G01N 33/46](#) take precedence); Haemocytometers (counting blood corpuscles distributed over a surface by scanning the surface [G06M 11/02](#))
- 33/483 . . Physical analysis of biological material
- 33/4833 . . . {of solid biological material, e.g. tissue samples, cell cultures (tissue *in vivo* [A61B 5/00](#); cell suspensions [G01N 33/48735](#))}
- 33/4836 . . . . {using multielectrode arrays}
- 33/487 . . . of liquid biological material
- 33/48707 . . . . {by electrical means ([G01N 33/49](#), [G01N 33/493](#) take precedence)}
- 33/48714 . . . . {for determining substances foreign to the organism, e.g. drugs or heavy metals (drugs by chemical analysis [G01N 33/94](#))}
- 33/48721 . . . . {Investigating individual macromolecules, e.g. by translocation through nanopores (Coulter counters in general [G01N 15/12](#); fabrication methods for nanoscale apertures [B81B 1/00](#); sequencing of nucleic acids [C12Q 1/68](#))}
- 33/48728 . . . . {Investigating individual cells, e.g. by patch clamp, voltage clamp (investigating individual particles in general [G01N 15/10](#))}
- 33/48735 . . . . {Investigating suspensions of cells, e.g. measuring microbe concentration (by chemical means [C12Q 1/04](#); colony counters [C12M 1/34](#); concentration of particle suspensions in general [G01N 15/06](#))}
- 33/48742 . . . . {Determining urea by measuring the volume of a gas (in general [G01N 7/14](#) - [G01N 7/18](#))}
- 33/4875 . . . . {Details of handling test elements, e.g. dispensing or storage, not specific to a particular test method (test-elements *per se* [B01L](#), automatic analysers [G01N 35/00](#), *in-vivo* analysis on the human body for medical diagnosis [A61B](#))}
- 33/48757 . . . . {Test elements dispensed from a stack}
- 33/48764 . . . . {Test tape taken off a spool}
- 33/48771 . . . . {Coding of information, e.g. calibration data, lot number}
- 33/48778 . . . . {Containers specially adapted therefor, e.g. for dry storage}
- 33/48785 . . . . {Electrical and electronic details of measuring devices for physical analysis of liquid biological material not specific to a particular test method, e.g. user interface or power supply}
- 33/48792 . . . . {Data management, e.g. communication with processing unit (for *in vivo* diagnostics [A61B 5/0002](#); transmission systems for measured values [G08C](#))}
- 33/49 . . . . Blood {(chemical methods for determining blood cell populations [G01N 33/5094](#); chemical analysis of blood groups or blood types [G01N 33/80](#))}
- 33/4905 . . . . {Determining clotting time of blood (by chemical methods [G01N 33/86](#), [C12Q 1/54](#))}
- 33/491 . . . . {by separating the blood components ([G01N 15/05](#) takes precedence)}
- 33/4915 . . . . {using flow cells (flow cytometry [G01N 15/14](#))}
- 33/492 . . . . {Determining multiple analytes}
- 33/4925 . . . . {measuring blood gas content, e.g. O<sub>2</sub>, CO<sub>2</sub>, HCO<sub>3</sub>}
- 33/493 . . . . urine
- 33/497 . . . of gaseous biological material, e.g. breath
- 33/4972 . . . . {Determining alcohol content (for vehicle safety devices [B60K 28/06](#))}
- 2033/4975 . . . . {other than oxygen, carbon dioxide or alcohol, e.g. organic vapours}
- 2033/4977 . . . . {metabolic gass from microbes, cell cultures, plant tissues and the like}
- 33/50 . . Chemical analysis of biological material, e.g. blood, urine; Testing involving biospecific ligand binding methods; Immunological testing (measuring or testing processes involving enzymes or microorganisms, compositions or test papers therefor; processes for forming such compositions, condition responsive control in microbiological or enzymological processes [C12Q](#))

#### NOTES

1. In this group, the following expression is used with the meaning indicated: "involving", when

- used in relation to a material, includes the testing for the material as well as employing the material as a determinant or reactant in a test for a different material.
2. In groups [G01N 33/52](#) – [G01N 33/98](#), the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
  3. Documents relating to new peptides or new DNA or its corresponding mRNA, encoding for the peptides, and their use in measuring or testing processes are classified in subclass [C07K](#) or in group [C12N 9/00](#) according to the peptides, with the appropriate indexing codes relating to their use in diagnostics. However, if the investigating or analysing aspects are of interest, the documents are classified in this group.
- 33/5002 . . . {Partitioning blood components}
- 33/5005 . . . {involving human or animal cells (immunoassay [G01N 33/56966](#); immunoassays of protozoa [G01N 33/56905](#); protozoa in screening assays [C12Q 1/025](#))}
- 33/5008 . . . . {for testing or evaluating the effect of chemical or biological compounds, e.g. drugs, cosmetics}
- 33/5011 . . . . . {for testing antineoplastic activity}
- 33/5014 . . . . . {for testing toxicity}
- 33/5017 . . . . . {for testing neoplastic activity}
- 33/502 . . . . . {for testing non-proliferative effects}
- 33/5023 . . . . . {on expression patterns}
- 33/5026 . . . . . {on cell morphology}
- 33/5029 . . . . . {on cell motility}
- 33/5032 . . . . . {on intercellular interactions}
- 33/5035 . . . . . {on sub-cellular localization}
- 33/5038 . . . . . {involving detection of metabolites per se}
- 33/5041 . . . . . {involving analysis of members of signalling pathways}
- 33/5044 . . . . . {involving specific cell types}
- 33/5047 . . . . . {Cells of the immune system}
- 33/505 . . . . . {involving T-cells}
- 33/5052 . . . . . {involving B-cells}
- 33/5055 . . . . . {involving macrophages}
- 33/5058 . . . . . {Neurological cells}
- 33/5061 . . . . . {Muscle cells}
- 33/5064 . . . . . {Endothelial cells}
- 33/5067 . . . . . {Liver cells}
- 33/507 . . . . . {Pancreatic cells}
- 33/5073 . . . . . {Stem cells}
- 33/5076 . . . . . {involving cell organelles, e.g. Golgi complex, endoplasmic reticulum}
- 33/5079 . . . . . {Mitochondria}
- 33/5082 . . . . . {Supracellular entities, e.g. tissue, organisms}
- 33/5085 . . . . . {of invertebrates}
- 33/5088 . . . . . {of vertebrates}
- 33/5091 . . . . {for testing the pathological state of an organism}
- 33/5094 . . . . {for blood cell populations (red blood cells [G01N 33/80](#))}
- 33/5097 . . . . {involving plant cells (immunoassays of plant cells [G01N 33/56961](#))}
- 33/52 . . . . Use of compounds or compositions for colorimetric, spectrophotometric or fluorometric investigation, e.g. use of reagent paper {and including single- and multilayer analytical elements (immunological elements [G01N 33/54386](#); involving labelled immunochemicals [G01N 33/58](#); for haemoglobin or occult blood [G01N 33/72](#))}
- 33/521 . . . . . {Single-layer analytical elements}
- 33/523 . . . . . {the element being adapted for a specific analyte}
- 33/525 . . . . . {Multi-layer analytical elements}
- 33/526 . . . . . {the element being adapted for a specific analyte}
- 33/528 . . . . . {Atypical element structures, e.g. gloves, rods, tampons, toilet paper}
- 33/53 . . . . Immunoassay; Biospecific binding assay; Materials therefor
- 33/5302 . . . . . {Apparatus specially adapted for immunological test procedures}
- 33/5304 . . . . . {Reaction vessels, e.g. agglutination plates (for solid-phase systems [G01N 33/543](#))}
- 33/5306 . . . . . {Improving reaction conditions, e.g. reduction of non-specific binding, promotion of specific binding}
- 33/5308 . . . . . {for analytes not provided for elsewhere, e.g. nucleic acids, uric acid, worms, mites}
- 33/531 . . . . . Production of immunochemical test materials
- 33/532 . . . . . Production of labelled immunochemicals
- 33/533 . . . . . with fluorescent label
- 33/534 . . . . . with radioactive label
- 33/535 . . . . . with enzyme label {or co-enzymes, co-factors, enzyme inhibitors or enzyme substrates}
- 33/536 . . . . . with immune complex formed in liquid phase
- 33/537 . . . . . with separation of immune complex from unbound antigen or antibody
- 33/5375 . . . . . {by changing the physical or chemical properties of the medium or immunochemicals, e.g. temperature, density, pH, partitioning}
- 33/538 . . . . . by sorbent column, particles or resin strip {, i.e. sorbent materials}
- 33/539 . . . . . involving precipitating reagent {, e.g. ammonium sulfate}
- 33/541 . . . . . Double or second antibody {, i.e. precipitating antibody}
- 33/542 . . . . . with steric inhibition or signal modification, e.g. fluorescent quenching
- 33/543 . . . . . with an insoluble carrier for immobilising immunochemicals
- 33/54306 . . . . . {Solid-phase reaction mechanisms}
- 33/54313 . . . . . {the carrier being characterised by its particulate form}
- 33/5432 . . . . . {Liposomes or microcapsules}
- 33/54326 . . . . . {Magnetic particles}



- 33/54333 . . . . . {Modification of conditions of immunological binding reaction, e.g. use of more than one type of particle, use of chemical agents to improve binding, choice of incubation time or application of magnetic field during binding reaction}
- 33/5434 . . . . . {using magnetic particle immunoreagent carriers which constitute new materials per se}
- 33/54346 . . . . . {Nanoparticles}
- 33/54353 . . . . . {with ligand attached to the carrier via a chemical coupling agent (coatings [G01N 33/54393](#))}
- 33/5436 . . . . . {with ligand physically entrapped within the solid phase (liposomes [G01N 33/5432](#); immunological test elements [G01N 33/54386](#))}
- 33/54366 . . . . . {Apparatus specially adapted for solid-phase testing}
- 33/54373 . . . . . {involving physiochemical end-point determination, e.g. wave-guides, FETS, gratings}
- 33/5438 . . . . . {Electrodes}
- 33/54386 . . . . . {Analytical elements}

**WARNING**

Group [G01N 33/54386](#) is impacted by reclassification into groups [G01N 33/54387](#), [G01N 33/54388](#), [G01N 33/54389](#) and [G01N 33/54391](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 33/54387 . . . . . {Immunochromatographic test strips}

**WARNING**

Groups [G01N 33/54387](#), [G01N 33/54388](#), [G01N 33/54389](#) and [G01N 33/54391](#) are incomplete pending reclassification of documents from groups [G01N 33/54386](#) and [G01N 33/558](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 33/54388 . . . . . {based on lateral flow}
- 33/54389 . . . . . {with bidirectional or multidirectional lateral flow, e.g. wherein the sample flows from a single, common sample application point into multiple strips, lanes or zones}
- 33/54391 . . . . . {based on vertical flow}
- 33/54393 . . . . . {Improving reaction conditions or stability, e.g. by coating or irradiation of surface, by reduction of non-specific binding, by promotion of specific binding}
- 33/544 . . . . . the carrier being organic
- 33/545 . . . . . Synthetic resin
- 33/546 . . . . . as water suspendable particles

- 33/547 . . . . . with antigen or antibody attached to the carrier via a bridging agent
- 33/548 . . . . . Carbohydrates, e.g. dextran
- 33/549 . . . . . with antigen or antibody entrapped within the carrier
- 33/551 . . . . . the carrier being inorganic
- 33/552 . . . . . Glass or silica
- 33/553 . . . . . Metal or metal coated
- 33/554 . . . . . the carrier being a biological cell or cell fragment, e.g. bacteria, yeast cells
- 33/555 . . . . . Red blood cell
- 33/556 . . . . . Fixed or stabilised red blood cell
- 33/557 . . . . . using kinetic measurement, i.e. time rate of progress of an antigen-antibody interaction
- 33/558 . . . . . using diffusion or migration of antigen or antibody {(immunochromatographic test strips [G01N 33/54387](#))}

**WARNING**

Group [G01N 33/558](#) is impacted by reclassification into groups [G01N 33/54387](#), [G01N 33/54388](#), [G01N 33/54389](#) and [G01N 33/54391](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 33/559 . . . . . through a gel, e.g. Ouchterlony technique
- 33/561 . . . . . Immuno-electrophoresis
- 33/563 . . . . . involving antibody fragments
- 33/564 . . . . . for pre-existing immune complex or autoimmune disease {, i.e. systemic lupus erythematosus, rheumatoid arthritis, multiple sclerosis, rheumatoid factors or complement components C1-C9}
- 33/566 . . . . . using specific carrier or receptor proteins as ligand binding reagents {where possible specific carrier or receptor proteins are classified with their target compounds}
- 33/567 . . . . . utilising isolate of tissue or organ as binding agent
- 33/569 . . . . . for microorganisms, e.g. protozoa, bacteria, viruses
- 33/56905 . . . . . {Protozoa}
- 33/56911 . . . . . {Bacteria}
- 33/56916 . . . . . {Enterobacteria, e.g. shigella, salmonella, klebsiella, serratia}
- 33/56922 . . . . . {Campylobacter}
- 33/56927 . . . . . {Chlamydia}
- 33/56933 . . . . . {Mycoplasma}
- 33/56938 . . . . . {Staphylococcus}
- 33/56944 . . . . . {Streptococcus}
- 33/5695 . . . . . {Mycobacteria}
- 33/56955 . . . . . {involved in periodontal diseases}
- 33/56961 . . . . . {Plant cells or fungi}
- 33/56966 . . . . . {Animal cells}
- 33/56972 . . . . . {White blood cells}
- 33/56977 . . . . . {HLA or MHC typing}
- 33/56983 . . . . . {Viruses}
- 33/56988 . . . . . {HIV or HTLV}
- 33/56994 . . . . . {Herpetoviridae, e.g. cytomegalovirus, Epstein-Barr virus}

33/571	. . . . .	for venereal disease, e.g. syphilis, gonorrhoea ( <a href="#">herpes G01N 33/56994</a> ; <a href="#">chlamydia G01N 33/56927</a> )	33/581	. . . . .	{with enzyme label (including co-enzymes, co-factors, enzyme inhibitors or substrates)}
33/573	. . . . .	for enzymes or isoenzymes	33/582	. . . . .	{with fluorescent label}
33/5735	. . . . .	{co-enzymes or co-factors, e.g. NAD, ATP}	33/583	. . . . .	{with non-fluorescent dye label}
33/574	. . . . .	for cancer	33/585	. . . . .	{with a particulate label, e.g. coloured latex}
<b>NOTE</b>			33/586	. . . . .	{Liposomes, microcapsules or cells}
In this group:			33/587	. . . . .	{Nanoparticles}
• relevant features relating to a specifically defined cancer are only classified in groups <a href="#">G01N 33/57407</a> - <a href="#">G01N 33/57449</a>			33/588	. . . . .	{with semiconductor nanocrystal label, e.g. quantum dots}
• relevant features describing cancer markers related to multiple forms of cancer are classified in groups <a href="#">G01N 33/57484</a> - <a href="#">G01N 33/57496</a>			33/60	. . . . .	involving radioactive labelled substances
33/57407	. . . . .	{Specifically defined cancers}	33/62	. . . . .	involving urea
33/57411	. . . . .	{of cervix}	33/64	. . . . .	involving ketones
33/57415	. . . . .	{of breast}	33/66	. . . . .	involving blood sugars, e.g. galactose
33/57419	. . . . .	{of colon}	33/68	. . . . .	involving proteins, peptides or amino acids {(involving lipoproteins <a href="#">G01N 33/92</a> )}
33/57423	. . . . .	{of lung}	33/6803	. . . . .	{General methods of protein analysis not limited to specific proteins or families of proteins}
33/57426	. . . . .	{leukemia}	33/6806	. . . . .	{Determination of free amino acids}
33/5743	. . . . .	{of skin, e.g. melanoma}	33/6809	. . . . .	{involving fluorescent derivatizing reagents reacting non-specifically with all amino acids}
33/57434	. . . . .	{of prostate}	33/6812	. . . . .	{Assays for specific amino acids}
33/57438	. . . . .	{of liver, pancreas or kidney}	33/6815	. . . . .	{containing sulfur, e.g. cysteine, cystine, methionine, homocysteine}
33/57442	. . . . .	{of the uterus and endometrial}	33/6818	. . . . .	{Sequencing of polypeptides}
33/57446	. . . . .	{of stomach or intestine}	33/6821	. . . . .	{involving C-terminal degradation}
33/57449	. . . . .	{of ovaries}	33/6824	. . . . .	{involving N-terminal degradation, e.g. Edman degradation}
33/57469	. . . . .	{involving tumor associated glycolinkage, i.e. TAG}	33/6827	. . . . .	{Total protein determination, e.g. albumin in urine}
33/57473	. . . . .	{involving carcinoembryonic antigen, i.e. CEA}	33/683	. . . . .	{involving metal ions}
33/57476	. . . . .	{involving oncofetal proteins}	33/6833	. . . . .	{Copper, e.g. Folin-, Lowry-, biuret methods}
33/5748	. . . . .	{involving oncogenic proteins}	33/6836	. . . . .	{Silver staining}
33/57484	. . . . .	{involving compounds serving as markers for tumor, cancer, neoplasia, e.g. cellular determinants, receptors, heat shock/stress proteins, A-protein, oligosaccharides, metabolites}	33/6839	. . . . .	{involving dyes, e.g. Coomassie blue, bromocresol green}
33/57488	. . . . .	{involving compounds identifiable in body fluids}	33/6842	. . . . .	{Proteomic analysis of subsets of protein mixtures with reduced complexity, e.g. membrane proteins, phosphoproteins, organelle proteins}
33/57492	. . . . .	{involving compounds localized on the membrane of tumor or cancer cells}	33/6845	. . . . .	{Methods of identifying protein-protein interactions in protein mixtures}
33/57496	. . . . .	{involving intracellular compounds}	33/6848	. . . . .	{Methods of protein analysis involving mass spectrometry}
33/576	. . . . .	for hepatitis	33/6851	. . . . .	{Methods of protein analysis involving laser desorption ionisation mass spectrometry}
33/5761	. . . . .	{Hepatitis B}	33/6854	. . . . .	{Immunoglobulins}
33/5762	. . . . .	{Hepatitis B core antigen}	33/6857	. . . . .	{Antibody fragments}
33/5764	. . . . .	{Hepatitis B surface antigen}	33/686	. . . . .	{Anti-idiotypic}
33/5765	. . . . .	{Hepatitis delta antigen}	33/6863	. . . . .	{Cytokines, i.e. immune system proteins modifying a biological response such as cell growth proliferation or differentiation, e.g. TNF, CNF, GM-CSF, lymphotoxin, MIF or their receptors}
33/5767	. . . . .	{non-A, non-B hepatitis}	33/6866	. . . . .	{Interferon}
33/5768	. . . . .	{Hepatitis A}	33/6869	. . . . .	{Interleukin}
33/577	. . . . .	involving monoclonal antibodies {binding reaction mechanisms characterised by the use of monoclonal antibodies; monoclonal antibodies <i>per se</i> are classified with their corresponding antigens; ( <a href="#">G01N 33/53</a> - <a href="#">G01N 33/576</a> take precedence)}	33/6872	. . . . .	{Intracellular protein regulatory factors and their receptors, e.g. including ion channels}
33/579	. . . . .	involving limulus lysate	33/6875	. . . . .	{Nucleoproteins}
33/58	. . . . .	involving labelled substances ( <a href="#">G01N 33/53</a> takes precedence)	33/6878	. . . . .	{in epitope analysis}
			33/6881	. . . . .	{from skin}

- 33/6884 . . . . {from lung}
- 33/6887 . . . . {from muscle, cartilage or connective tissue}
- 33/689 . . . . {related to pregnancy or the gonads}
- 33/6893 . . . . {related to diseases not provided for elsewhere}
- 33/6896 . . . . . {Neurological disorders, e.g. Alzheimer's disease}
- 33/70 . . . involving creatine or creatinine
- 33/72 . . . involving blood pigments, e.g. haemoglobin, bilirubin {or other porphyrins; involving occult blood}
- 33/721 . . . . {Haemoglobin}
- 33/723 . . . . . {Glycosylated haemoglobin}
- 33/725 . . . . . {using peroxidative activity}
- 33/726 . . . . . {Devices}
- 33/728 . . . . {Bilirubin; including biliverdin}
- 33/74 . . . involving hormones {or other non-cytokine intercellular protein regulatory factors such as growth factors, including receptors to hormones and growth factors}
- 33/743 . . . . {Steroid hormones}
- 33/746 . . . . {Erythropoietin}
- 33/76 . . . . Human chorionic gonadotropin {including luteinising hormone, follicle stimulating hormone, thyroid stimulating hormone or their receptors}
- 33/78 . . . . Thyroid gland hormones {, e.g. T3, T4, TBH, TBG or their receptors}
- 33/80 . . . involving blood groups or blood types {or red blood cells ([white blood cells G01N 33/56972](#))}
- 33/82 . . . involving vitamins {or their receptors}
- 33/84 . . . involving inorganic compounds or pH
- 33/86 . . . involving blood coagulating time {or factors, or their receptors}
- 33/88 . . . involving prostaglandins {or their receptors}
- 33/90 . . . involving iron binding capacity of blood
- 33/92 . . . involving lipids, e.g. cholesterol {, lipoproteins, or their receptors ([steroid hormones G01N 33/743](#))}
- 33/94 . . . involving narcotics {or drugs or pharmaceuticals, neurotransmitters or associated receptors}
- 33/9406 . . . . {Neurotransmitters}
- 33/9413 . . . . . {Dopamine}
- 33/942 . . . . . {Serotonin, i.e. 5-hydroxy-tryptamine}
- 33/9426 . . . . . {GABA, i.e. gamma-amino-butyrate}
- 33/9433 . . . . . {(Nor)adrenaline}
- 33/944 . . . . . {Acetylcholine}
- 33/9446 . . . . {Antibacterials}
- 33/9453 . . . . {Cardioregulators, e.g. antihypotensives, antiarrhythmics}
- 33/946 . . . . {CNS-stimulants, e.g. cocaine, amphetamines}
- 33/9466 . . . . {Antidepressants}
- 33/9473 . . . . {Anticonvulsants, e.g. phenobarbitol, phenytoin}
- 33/948 . . . . {Sedatives, e.g. cannabinoids, barbiturates ([opiates G01N 33/9486](#))}
- 33/9486 . . . . {Analgesics, e.g. opiates, aspirine}
- 33/9493 . . . . {Immunosuppressants}
- 33/96 . . . involving blood or serum control standard
- 33/98 . . . involving alcohol, e.g. ethanol in breath

### 35/00 Automatic analysis not limited to methods or materials provided for in any single one of groups [G01N 1/00](#) - [G01N 33/00](#); Handling materials therefor

- 35/00009 . {provided with a sample supporting tape, e.g. with absorbent zones}
- 2035/00019 . . {cassette structures}
- 35/00029 . {provided with flat sample substrates, e.g. slides ([G01N 35/028 takes precedence](#))}
- 2035/00039 . . {Transport arrangements specific to flat sample substrates, e.g. pusher blade}
- 2035/00049 . . . {for loading/unloading a carousel}
- 2035/00059 . . . {vacuum chucks}
- 35/00069 . . {whereby the sample substrate is of the bio-disk type, i.e. having the format of an optical disk}
- 2035/00079 . . {Evaporation covers for slides}
- 2035/00089 . . {Magazines}
- 2035/00099 . . {Characterised by type of test elements}
- 2035/00108 . . . {Test strips, e.g. paper}
- 2035/00118 . . . . {for multiple tests}
- 2035/00128 . . . . {with pressing or squeezing devices}
- 2035/00138 . . . {Slides}
- 2035/00148 . . . {Test cards, e.g. Biomerieux or McDonnell multiwell test cards}
- 2035/00158 . . . {Elements containing microarrays, i.e. "biochip"}
- 2035/00168 . . {Manufacturing or preparing test elements}
- 2035/00178 . {Special arrangements of analysers}
- 2035/00188 . . {the analyte being in the solid state}
- 2035/00198 . . . {Dissolution analysers}
- 2035/00207 . . {Handling bulk quantities of analyte}
- 2035/00217 . . . {involving measurement of weight}
- 2035/00227 . . . {Monitoring a process (online)}
- 2035/00237 . . {Handling microquantities of analyte, e.g. microvalves, capillary networks}
- 2035/00247 . . . {Microvalves}
- 2035/00257 . . . . {Capillary stop flow circuits}
- 2035/00267 . . . . {Melttable plugs}
- 2035/00277 . . {Special precautions to avoid contamination (e.g. enclosures, glove- boxes, sealed sample carriers, disposal of contaminated material)}
- 2035/00287 . . . {movable lid/cover for sample or reaction tubes}
- 2035/00297 . . . {Antistatic arrangements}
- 2035/00306 . . {Housings, cabinets, control panels (details)}
- 2035/00316 . . . {Detecting door closure}
- 2035/00326 . . {Analysers with modular structure}
- 2035/00336 . . . {Analysers adapted for operation in microgravity, i.e. spaceflight}
- 2035/00346 . {Heating or cooling arrangements}
- 2035/00356 . . {Holding samples at elevated temperature (incubation)}
- 2035/00366 . . . {Several different temperatures used}
- 2035/00376 . . . {Conductive heating, e.g. heated plates}
- 2035/00386 . . . {using fluid heat transfer medium}
- 2035/00396 . . . . {where the fluid is a liquid}
- 2035/00405 . . . {Microwaves}
- 2035/00415 . . . {Other radiation}
- 2035/00425 . . {Heating or cooling means associated with pipettes or the like, e.g. for supplying sample/reagent at given temperature}
- 2035/00435 . . {Refrigerated reagent storage}
- 2035/00445 . . {Other cooling arrangements}

2035/00455	. . {Controlling humidity in analyser}	2035/0093	. . . {random access not determined by physical position}
2035/00465	. {Separating and mixing arrangements}	2035/0094	. . . {optimisation; experiment design}
2035/00475	. . {Filters}	35/0095	. . . {introducing urgent samples with priority, e.g. Short Turn Around Time Samples [STATS]}
2035/00485	. . . {combined with sample carriers}	2035/0096	. . . {post analysis management of samples, e.g. marking, removing, storing}
2035/00495	. . {Centrifuges}	2035/0097	. . {monitoring reactions as a function of time}
2035/00504	. . . {combined with carousels}	35/0098	. {involving analyte bound to insoluble magnetic carrier, e.g. using magnetic separation ( <a href="#">magnetic particles used in immunoassays G01N 33/54326</a> ; <a href="#">magnetic separation in general B03C</a> )}
2035/00514	. . {Stationary mixing elements}	35/0099	. {comprising robots or similar manipulators ( <a href="#">robots per se B25J</a> )}
2035/00524	. . {Mixing by agitating sample carrier}	35/02	. using a plurality of sample containers moved by a conveyor system past one or more treatment or analysis stations {( <a href="#">G01N 35/0098</a> and <a href="#">G01N 35/0099</a> take precedence)}
2035/00534	. . {Mixing by a special element, e.g. stirrer}	35/021	. . {having a flexible chain, e.g. "cartridge belt", conveyor for reaction cells or cuvettes}
2035/00544	. . . {using fluid flow}	2035/023	. . . {forming cuvettes <u>in situ</u> , e.g. from plastic strip}
2035/00554	. . . {using ultrasound}	35/025	. . {having a carousel or turntable for reaction cells or cuvettes}
2035/00564	. . {Handling or washing solid phase elements, e.g. beads}	35/026	. . {having blocks or racks of reaction cells or cuvettes}
2035/00574	. . . {Means for distributing beads}	35/028	. . {having reaction cells in the form of microtitration plates}
35/00584	. {Control arrangements for automatic analysers}	35/04	. . Details of the conveyor system {( <a href="#">G01N 35/021</a> - <a href="#">G01N 35/028</a> take precedence)}
35/00594	. . {Quality control, including calibration or testing of components of the analyser}	2035/0401	. . . {Sample carriers, cuvettes or reaction vessels}
35/00603	. . . {Reinspection of samples}	2035/0403	. . . . {Sample carriers with closing or sealing means}
35/00613	. . . {Quality control}	2035/0405	. . . . . {manipulating closing or opening means, e.g. stoppers, screw caps, lids or covers}
35/00623	. . . . {of instruments}	2035/0406	. . . . . {Individual bottles or tubes}
2035/00633	. . . . . {logging process history of individual samples}	2035/0408	. . . . . {connected in a flexible chain}
2035/00643	. . . . . {detecting malfunctions in conveying systems}	2035/041	. . . . . {lifting items out of a rack for access}
2035/00653	. . . . . {statistical methods comparing labs or apparatuses}	2035/0412	. . . . . {Block or rack elements with a single row of samples}
35/00663	. . . . . {of consumables}	2035/0413	. . . . . {moving in one dimension}
2035/00673	. . . . . {of reagents}	2035/0415	. . . . . {moving in two dimensions in a horizontal plane}
2035/00683	. . . . . {of detectors}	2035/0417	. . . . . {forming an endless chain in a vertical plane}
35/00693	. . . {Calibration}	2035/0418	. . . . . {Plate elements with several rows of samples}
2035/00702	. . . . {Curve-fitting; Parameter matching; Calibration constants}	2035/042	. . . . . {moved independently, e.g. by fork manipulator}
35/00712	. . . {Automatic status testing, e.g. at start-up or periodic}	2035/0422	. . . . . {carried on a linear conveyor}
35/00722	. . {Communications; Identification}	2035/0424	. . . . . {Two or more linear conveyors}
35/00732	. . . {Identification of carriers, materials or components in automatic analysers}	2035/0425	. . . . . {Stacks, magazines or elevators for plates}
2035/00742	. . . . {Type of codes}	2035/0427	. . . . . {nestable or stockable}
2035/00752	. . . . . {bar codes}	2035/0429	. . . . . {Sample carriers adapted for special purposes}
2035/00762	. . . . . {magnetic code}	2035/0431	. . . . . {characterised by material of construction}
2035/00772	. . . . . {mechanical or optical code other than bar code}	2035/0432	. . . . . {integrated with measuring devices}
2035/00782	. . . . . {reprogrammable code}	2035/0434	. . . . . {in the form of a syringe or pipette tip}
2035/00792	. . . . {Type of components bearing the codes, other than sample carriers}	2035/0436	. . . . . {with pre-packaged reagents, i.e. test-packs}
2035/00801	. . . . . {Holders for sample carriers, e.g. trays, carousel, racks}	2035/0437	. . . . . {Cleaning cuvettes or reaction vessels}
2035/00811	. . . . . {consumable or exchangeable components other than sample carriers, e.g. detectors, flow cells}	2035/0439	. . . . {Rotary sample carriers, i.e. carousels}
2035/00821	. . . . {nature of coded information}	2035/0441	. . . . . {for samples}
2035/00831	. . . . {identification of the sample, e.g. patient identity, place of sampling}		
2035/00841	. . . . . {results of the analyses}		
2035/00851	. . . . . {process control parameters}		
2035/00861	. . . . {printing and sticking of identifiers}		
35/00871	. . . {Communications between instruments or with remote terminals}		
2035/00881	. . . . {network configurations}		
2035/00891	. . . {Displaying information to the operator}		
2035/009	. . . . {alarms, e.g. audible}		
2035/0091	. . . . {GUI [graphical user interfaces]}		
35/0092	. . {Scheduling}		



2035/0443	. . . . {for reagents}	2035/102	. . . . {Preventing or detecting loss of fluid by dripping}
2035/0444	. . . . {for cuvettes or reaction vessels}	2035/1023	. . . . {using a valve in the tip or nozzle}
2035/0446	. . . . {Combinations of the above}	2035/1025	. . . {Fluid level sensing}
2035/0448	. . . . {composed of interchangeable ring elements}	2035/1027	. . {General features of the devices}
2035/0449	. . . . {using centrifugal transport of liquid}	2035/103	. . . {using disposable tips}
2035/0451	. . . . {composed of interchangeable sectors}	2035/1032	. . . {Dilution or aliquotting}
2035/0453	. . . . {Multiple carousels working in parallel}	2035/1034	. . . {Transferring microquantities of liquid}
2035/0455	. . . . {Coaxial carousels}	2035/1037	. . . . {Using surface tension, e.g. pins or wires}
2035/0456	. . . . {Spiral tracks}	2035/1039	. . . . {Micropipettes, e.g. microcapillary tubes}
2035/0458	. . . . {Multiple concentric rows of wells}	2035/1041	. . . . {Ink-jet like dispensers}
2035/046	. . . {General conveyor features}	2035/1044	. . . . {Using pneumatic means}
2035/0462	. . . . {Buffers [FIFO] or stacks [LIFO] for holding carriers between operations}	2035/1046	. . . . {Levitated, suspended drops}
2035/0463	. . . . {in incubators}	2035/1048	. . . {using the transfer device for another function}
2035/0465	. . . . {Loading or unloading the conveyor}	2035/1051	. . . . {for transporting containers, e.g. retained by friction}
2035/0467	. . . . {Switching points ("aiguillages")}	2035/1053	. . . . {for separating part of the liquid, e.g. filters, extraction phase}
2035/0468	. . . . {converging, e.g. selecting carriers from multiple incoming streams}	2035/1055	. . . . {for immobilising reagents, e.g. dried reagents}
2035/047	. . . . {diverging, e.g. sending carriers to different analysers}	2035/1058	. . . . {for mixing}
2035/0472	. . . . {for selective recirculation of carriers}	2035/106	. . . . {by sucking and blowing}
2035/0474	. . . {Details of actuating means for conveyors or pipettes}	2035/1062	. . . . {for testing the liquid while it is in the transfer device}
2035/0475	. . . . {electric, e.g. stepper motor, solenoid}	35/1065	. . {Multiple transfer devices}
2035/0477	. . . . {Magnetic}	35/1067	. . . {for transfer to or from containers having different spacing}
2035/0479	. . . . {hydraulic or pneumatic}	2035/1069	. . . . {by adjusting the spacing between multiple probes of a single transferring head}
2035/0481	. . . . {Pneumatic tube conveyors; Tube mails; "Rohrpost"}	35/1072	. . . {with provision for selective pipetting of individual channels}
2035/0482	. . . . {Transmission}	35/1074	. . . {arranged in a two-dimensional array}
2035/0484	. . . . {Belt or chain}	2035/1076	. . . {plurality or independently movable heads}
2035/0486	. . . . {Gearing, cams}	35/1079	. . {with means for piercing stoppers or septums}
2035/0487	. . . . {Helix or lead screw}	35/1081	. . {characterised by the means for relatively moving the transfer device and the containers in an horizontal plane ( <a href="#">G01N 35/1011</a> takes precedence)}
2035/0489	. . . . {Self-propelled units}	35/1083	. . . {with one horizontal degree of freedom}
2035/0491	. . . . {Position sensing, encoding; closed-loop control}	2035/1086	. . . . {Cylindrical, e.g. variable angle}
2035/0493	. . . . {Locating samples; identifying different tube sizes}	2035/1088	. . . . {Coaxial with a carousel}
2035/0494	. . . . {Detecting or compensating positioning errors}	35/109	. . . {with two horizontal degrees of freedom}
2035/0496	. . . {Other details}	2035/1093	. . . . {Cylindrical, e.g. variable radius and angle}
2035/0498	. . . . {Drawers used as storage or dispensing means for vessels or cuvettes}	35/1095	. . {for supplying the samples to flow-through analysers ( <a href="#">for a specific analyser see relevant groups, e.g. under G01N 15/00, G01N 21/00, G01N 27/00, G01N 30/00, H01J 49/00</a> )}
35/08	. using a stream of discrete samples flowing along a tube system, e.g. flow injection analysis	35/1097	. . . {characterised by the valves ( <a href="#">valves in general F16K</a> )}
35/085	. . {Flow Injection Analysis}	37/00	<b>Details not covered by any other group of this subclass</b>
35/10	. Devices for transferring samples {or any liquids} to, in, or from, the analysis apparatus, e.g. suction devices, injection devices ( <a href="#">G01N 35/0099</a> takes precedence)}	37/005	. {Measurement methods not based on established scientific theories}
35/1002	. . {Reagent dispensers}	2201/00	<b>Features of devices classified in <a href="#">G01N 21/00</a></b>
35/1004	. . {Cleaning sample transfer devices}	2201/02	. Mechanical
2035/1006	. . . {Rinsing only the inside of the tip}	2201/021	. . Special mounting in general
35/1009	. . {Characterised by arrangements for controlling the aspiration or dispense of liquids}	2201/0212	. . . Liquid borne; swimming apparatus
35/1011	. . . {Control of the position or alignment of the transfer device}	2201/0214	. . . Airborne
2035/1013	. . . . {Confirming presence of tip}	2201/0216	. . . Vehicle borne
35/1016	. . . {Control of the volume dispensed or introduced}	2201/0218	. . . Submersible, submarine
2035/1018	. . . . {Detecting inhomogeneities, e.g. foam, bubbles, clots}	2201/022	. . Casings

2201/0221	. . .	Portable; cableless; compact; hand-held	2201/0628	. . .	Organic LED [OLED]
2201/0222	. . .	Pocket size	2201/063	. .	Illuminating optical parts
2201/0224	. . .	Pivoting casing	2201/0631	. . .	Homogeneising elements
2201/0225	. . .	Part of casing being slidable, telescopic	2201/0632	. . . .	homogeneising by integrating sphere
2201/0227	. . .	Sealable enclosure	2201/0633	. . .	Directed, collimated illumination
2201/0228	. . .	Moulded parts	2201/0634	. . .	Diffuse illumination
2201/023	. .	Controlling conditions in casing	2201/0635	. . .	Structured illumination, e.g. with grating
2201/0231	. . .	Thermostating	2201/0636	. . .	Reflectors
2201/0233	. . .	Gas purge	2201/0637	. . . .	Elliptic
2201/0235	. . . .	with gas filters in casing	2201/0638	. . .	Refractive parts
2201/0236	. . .	Explosion proof	2201/0639	. . . .	Sphere lens
2201/0238	. . .	Moisture monitoring or controlling	2201/064	. .	Stray light conditioning
2201/024	. .	Modular construction	2201/0642	. . .	Light traps; baffles
2201/0245	. . .	with insertable-removable part	2201/0644	. . . .	Simple baffled tube construction
2201/025	. .	Mechanical control of operations	2201/0646	. . .	Light seals
2201/0253	. . .	Switches mounted at the casing	2201/0648	. . .	Shutters
2201/0256	. . .	Sensor for insertion of sample, cuvette, test strip	2201/065	. .	Integrating spheres
2201/04	. .	Batch operation; multisample devices	2201/0655	. . .	Hemispheres
2201/0407	. .	with multiple optical units, e.g. one per sample	2201/066	. .	Modifiable path; multiple paths in one sample
2201/0415	. .	Carrusel, sequential	2201/0662	. . .	Comparing measurements on two or more paths in one sample
2201/0423	. . .	with rotating optics	2201/0664	. . .	Using two ways, i.e. two devices in same path in one sample
2201/043	. . . .	optics constituted by optical fibre multiplex selector	2201/0666	. . .	Selectable paths; insertable multiple sources
2201/0438	. .	Linear motion, sequential	2201/0668	. . .	Multiple paths; optimisable path length
2201/0446	. .	Multicell plate, sequential	2201/067	. .	Electro-optic, magneto-optic, acousto-optic elements
2201/0453	. .	Multicell sequential and multitest, e.g. multiwavelength	2201/0675	. . .	SLM
2201/0461	. .	Simultaneous, e.g. video imaging	2201/068	. .	Optics, miscellaneous
2201/0469	. .	One cell, sequential, e.g. successive samples	2201/0683	. . .	Brewster plate; polarisation controlling elements
2201/0476	. .	Keyboard controlled, e.g. for plural analysis at one sample, channel selection, coding	2201/0686	. . .	Cold filter; IR filter
2201/0484	. .	Computer controlled	2201/069	. .	Supply of sources
2201/0492	. .	Automatised microscope	2201/0691	. . .	Modulated (not pulsed supply)
2201/06	. .	Illumination; Optics	2201/0692	. . .	Regulated sources; stabilised supply
2201/061	. .	Sources	2201/0693	. . .	Battery powered circuitry
2201/06106	. . .	Plural sources used for calibration	2201/0694	. . .	Microprocessor controlled supply
2201/06113	. . .	Coherent sources; lasers	2201/0695	. . .	Supply to maintain constant beam intensity
2201/0612	. . . .	Laser diodes	2201/0696	. . .	Pulsed
2201/06126	. . .	Large diffuse sources	2201/0697	. . . .	Pulsed lasers
2201/06133	. . . .	Light tables	2201/0698	. . . .	Using reference pulsed source
2201/0614	. . . .	Diffusing light tube with sample within	2201/0699	. . . .	Randomly pulsed source
2201/06146	. . .	Multisources for homogeneisation, as well sequential as simultaneous operation	2201/08	. .	Optical fibres; light guides
2201/06153	. . . .	the sources being LED's	2201/0806	. .	Light rod
2201/0616	. . .	Ambient light is used	2201/0813	. .	Arrangement of collimator tubes, glass or empty
2201/06166	. . .	Line selective sources	2201/082	. .	Fibres for a reference path
2201/06173	. . . .	IR sources from heated molecular species	2201/0826	. .	Fibre array at source, distributing
2201/0618	. . . .	Halogene sources	2201/0833	. .	Fibre array at detector, resolving
2201/06186	. . .	Resistance heated; wire sources; lamelle sources	2201/084	. .	Fibres for remote transmission
2201/06193	. . .	Secondary <u>in-situ</u> sources, e.g. fluorescent particles	2201/0846	. .	Fibre interface with sample, e.g. for spatial resolution
2201/062	. .	LED's	2201/0853	. .	Movable fibre optical member, e.g. for scanning or selecting
2201/0621	. . .	Supply	2201/086	. .	Modular construction, e.g. disconnectable fibre parts
2201/0622	. . .	Use of a compensation LED	2201/0866	. .	Use of GRIN elements
2201/0623	. . .	Use of a reference LED	2201/0873	. .	Using optically integrated constructions
2201/0624	. . .	Compensating variation in output of LED source	2201/088	. .	Using a sensor fibre
2201/0625	. . .	Modulated LED	2201/0886	. . .	and using OTDR
2201/0626	. . .	Use of several LED's for spatial resolution	2201/0893	. .	Using fibres for resolution in time
2201/0627	. . .	Use of several LED's for spectral resolution	2201/10	. .	Scanning
			2201/101	. .	Scanning measuring head

2201/102	. . Video camera	2201/1273	. . . Check triggered by sensing conditions, e.g. ambient changes
2201/103	. . Scanning by mechanical motion of stage	2201/12738	. . . Selectively initiating check
2201/1035	. . . 3D motion	2201/12746	. . . Calibration values determination
2201/104	. . Mechano-optical scan, i.e. object and beam moving	2201/12753	. . . . and storage
2201/1042	. . . X, Y scan, i.e. object moving in X, beam in Y	2201/12761	. . . . Precalibration, e.g. for a given series of reagents
2201/1045	. . . Spiral scan	2201/12769	. . . . and adjusting controls, e.g. zero and 100 %
2201/1047	. . . with rotating optics and moving stage	2201/12776	. . . . Automatic scaling up
2201/105	. . Purely optical scan	2201/12784	. . . . Base line obtained from computation, histogram
2201/1053	. . . System of scan mirrors for composite motion of beam	2201/12792	. . . Compensating own radiation in apparatus
2201/1056	. . . Prism scan, diasporameter	2201/128	. . Alternating sample and standard or reference part in one path
2201/106	. . Acousto-optical scan	2201/1281	. . . Reflecting part, i.e. for autocollimation
2201/107	. . CRT flying spot scan	2201/1283	. . . Opaque part
2201/108	. . Miscellaneous	2201/1285	. . . Standard cuvette
2201/1082	. . . Descanning	2201/1286	. . . . More than one cuvette
2201/1085	. . . Using optical fibre array and scanner	2201/1288	. . . Calibration medium periodically inserted in one cell
2201/1087	. . . Focussed scan beam, e.g. laser	2201/129	. . Using chemometrical methods
2201/11	. . Monitoring and controlling the scan	2201/1293	. . . resolving multicomponent spectra
2201/112	. . . Grating pulse time encoder	2201/1296	. . . using neural networks
2201/115	. . . Optical equalisation of scan intensity	2201/13	. . Standards, constitution
2201/117	. . . Indexed, memorised or programmed scan		
2201/12	. Circuits of general importance; Signal processing	<b>2203/00</b>	<b>Investigating strength properties of solid materials by application of mechanical stress</b>
2201/121	. . Correction signals	2203/0001	. Type of application of the stress
2201/1211	. . . for temperature	2203/0003	. . Steady
2201/1212	. . . . and switch-off from upwarming	2203/0005	. . Repeated or cyclic
2201/1214	. . . for humidity	2203/0007	. . . Low frequencies up to 100 Hz
2201/1215	. . . for interfering gases	2203/0008	. . . High frequencies from 10 000 Hz
2201/1217	. . . for index of solution, carrying fluids	2203/001	. . Impulsive
2201/1218	. . . for pressure variations	2203/0012	. . Constant speed test
2201/122	. . Kinetic analysis; determining reaction rate	2203/0014	. Type of force applied
2201/1222	. . . Endpoint determination; reaction time determination	2203/0016	. . Tensile or compressive
2201/1224	. . . Polymerisation	2203/0017	. . . Tensile
2201/1226	. . . Relaxation methods, e.g. temperature jump, field jump	2203/0019	. . . Compressive
2201/1228	. . . Reading time being controlled, e.g. by microprocessor	2203/0021	. . Torsional
2201/123	. . Conversion circuit	2203/0023	. . Bending
2201/1232	. . . Log representation, e.g. for low transmittance	2203/0025	. . Shearing
2201/1235	. . . Measuring or displaying selectably absorbance or density	2203/0026	. . Combination of several types of applied forces
2201/1237	. . . Measuring extrema	2203/0028	. . . Rotation and bending
2201/124	. . Sensitivity	2203/003	. Generation of the force
2201/1241	. . . Multirange	2203/0032	. . using mechanical means
2201/1242	. . . Validating, e.g. range invalidation, suspending operation	2203/0033	. . . Weight
2201/1244	. . . Ambient light detector, e.g. for invalidating	2203/0035	. . . Spring
2201/1245	. . . Averaging several measurements	2203/0037	. . . involving a rotating movement, e.g. gearing, cam, eccentric, or centrifuge effects
2201/1247	. . . Thresholding	2203/0039	. . . Hammer or pendulum
2201/1248	. . . Validating from signal shape, slope, peak	2203/0041	. . . Human or animal power
2201/125	. . Digital circuitry	2203/0042	. . Pneumatic or hydraulic means
2201/126	. . Microprocessor processing	2203/0044	. . . Pneumatic means
2201/1263	. . . Microprocessor is used as variant to separate part circuits	2203/0046	. . . . Vacuum
2201/1266	. . . Interface card	2203/0048	. . . Hydraulic means
2201/127	. . Calibration; base line adjustment; drift compensation	2203/005	. . Electromagnetic means
2201/12707	. . . Pre-test of apparatus, e.g. dark test, sensor test	2203/0051	. . . Piezoelectric means
2201/12715	. . . Zero adjustment, i.e. to verify calibration	2203/0053	. . Cutting or drilling tools
2201/12723	. . . Self check capacity; automatic, periodic step of checking	2203/0055	. . using mechanical waves, e.g. acoustic
		2203/0057	. . using stresses due to heating, e.g. conductive heating, radiative heating
		2203/0058	. Kind of property studied

2203/006	. .	Crack, flaws, fracture or rupture	2203/0254	. . .	Biaxial, the forces being applied along two normal axes of the specimen
2203/0062	. . .	Crack or flaws	2203/0256	. . .	Triaxial, i.e. the forces being applied along three normal axes of the specimen
2203/0064	. . . .	Initiation of crack	2203/0258	. . .	Non axial, i.e. the forces not being applied along an axis of symmetry of the specimen
2203/0066	. . . .	Propagation of crack	2203/026	. .	Specifications of the specimen
2203/0067	. . .	Fracture or rupture	2203/0262	. . .	Shape of the specimen
2203/0069	. .	Fatigue, creep, strain-stress relations or elastic constants	2203/0264	. . . .	Beam
2203/0071	. . .	Creep	2203/0266	. . . .	Cylindrical specimens
2203/0073	. . .	Fatigue	2203/0268	. . . .	Dumb-bell specimens
2203/0075	. . .	Strain-stress relations or elastic constants	2203/027	. . . .	Specimens with holes or notches
2203/0076	. .	Hardness, compressibility or resistance to crushing	2203/0272	. . . .	Cruciform specimens
2203/0078	. . .	using indentation	2203/0274	. . . .	Tubular or ring-shaped specimens
2203/008	. . . .	Residual indentation measurement	2203/0276	. . . .	Spherical specimens
2203/0082	. . . .	Indentation characteristics measured during load	2203/0278	. . . .	Thin specimens
2203/0083	. . .	Rebound strike or reflected energy	2203/028	. . . . .	One dimensional, e.g. filaments, wires, ropes or cables
2203/0085	. . .	Compressibility	2203/0282	. . . . .	Two dimensional, e.g. tapes, webs, sheets, strips, disks or membranes
2203/0087	. . .	Resistance to crushing	2203/0284	. . .	Bulk material, e.g. powders
2203/0089	. .	Biorheological properties	2203/0286	. . .	Miniature specimen; Testing on microregions of a specimen
2203/0091	. .	Peeling or tearing	2203/0288	. . .	Springs
2203/0092	. .	Visco-elasticity, solidification, curing, cross-linking degree, vulcanisation or strength properties of semi-solid materials	2203/029	. . . .	Leaf spring
2203/0094	. . .	Visco-elasticity	2203/0292	. . . .	Coil spring
2203/0096	. .	Fibre-matrix interaction in composites	2203/0294	. . . .	Airs-spring, air bag spring or bellows
2203/0098	. .	Tests specified by its name, e.g. Charpy, Brinell, Mullen	2203/0296	. . .	Welds
2203/02	. .	Details not specific for a particular testing method	2203/0298	. . .	Manufacturing or preparing specimens
2203/0202	. .	Control of the test	2203/04	. .	Chucks, fixtures, jaws, holders or anvils
2203/0204	. . .	Safety arrangements, e.g. remote control, emergency stop	2203/0405	. . .	Features allowing alignment between specimen and chucks
2203/0206	. . .	Means for supplying or positioning specimens or exchangeable parts of the machine such as indenters...	2203/0411	. . .	using pneumatic or hydraulic pressure
2203/0208	. . .	Specific programs of loading, e.g. incremental loading or pre-loading	2203/0417	. . .	using vacuum
2203/021	. . .	Treatment of the signal; Calibration	2203/0423	. . .	using screws
2203/0212	. . .	Theories, calculations	2203/0429	. . .	using adhesive bond; Gluing
2203/0214	. . . .	Calculations a priori without experimental data	2203/0435	. . .	modifying the type of the force applied, e.g. the chuck transforms a compressive machine for applying a bending test
2203/0216	. . . .	Finite elements	2203/0441	. . .	with dampers or shock absorbing means
2203/0218	. . . .	Calculations based on experimental data	2203/0447	. . .	Holders for quick insertion/removal of test pieces
2203/022	. .	Environment of the test	2203/0452	. . .	Cushioning layer between test piece and grip
2203/0222	. . .	Temperature	2203/0458	. . .	characterised by their material
2203/0224	. . . .	Thermal cycling	2203/0464	. . .	with provisions for testing more than one specimen at the time
2203/0226	. . . .	High temperature; Heating means	2203/047	. . . .	in series
2203/0228	. . . .	Low temperature; Cooling means	2203/0476	. . . .	in parallel
2203/023	. . .	Pressure	2203/0482	. . .	comprising sensing means
2203/0232	. . . .	High pressure	2203/0488	. . . .	Diamond anvil cells
2203/0234	. . . .	Low pressure; Vacuum	2203/0494	. . . .	Clamping ring, "whole periphery" clamping
2203/0236	. . .	Other environments	2203/06	. .	Indicating or recording means; Sensing means
2203/0238	. . . .	Inert	2203/0605	. . .	Mechanical indicating, recording or sensing means
2203/024	. . . .	Corrosive	2203/0611	. . .	Hydraulic or pneumatic indicating, recording or sensing means
2203/0242	. . . .	With circulation of a fluid	2203/0617	. . .	Electrical or magnetic indicating, recording or sensing means
2203/0244	. . .	Tests performed " <u>in situ</u> " or after " <u>in situ</u> " use	2203/0623	. . . .	using piezoelectric gauges
2203/0246	. . . .	Special simulation of " <u>in situ</u> " conditions, scale models or dummies	2203/0629	. . . .	using thin films, paintings
2203/0248	. . .	Tests "on-line" during fabrication	2203/0635	. . . .	using magnetic properties
2203/025	. .	Geometry of the test	2203/0641	. . .	using optical, X-ray, ultraviolet, infrared or similar detectors
2203/0252	. . .	Monoaxial, i.e. the forces being applied along a single axis of the specimen			



2203/0647	. . . . Image analysis	2223/1006	. . different radiations, e.g. X and alpha
2203/0652	. . . . using contrasting ink, painting, staining	2223/101	. . electromagnetic radiation
2203/0658	. . . . using acoustic or ultrasonic detectors	2223/1013	. . . gamma
2203/0664	. . . . using witness specimens	2223/1016	. . . X-ray
2203/067	. . . Parameter measured for estimating the property	2223/102	. . beta or electrons
2203/0676	. . . . Force, weight, load, energy, speed or acceleration	2223/104	. . ions
2203/0682	. . . . Spatial dimension, e.g. length, area, angle	2223/1045	. . . alpha
2203/0688	. . . . Time or frequency	2223/105	. . molecular or atomic beams
2203/0694	. . . . Temperature	2223/106	. . neutrons
<b>2223/00</b>	<b>Investigating materials by wave or particle radiation</b>	2223/1063	. . . fast
2223/01	. by radioactivity, nuclear decay	2223/1066	. . . thermal
2223/03	. by transmission	2223/107	. . protons
2223/04	. . and measuring absorption	2223/108	. . positrons; electron-positron annihilation
2223/041	. . . X-ray absorption fine structure [EXAFS]	2223/11	. . neutrino
2223/043	. . . gamma ray resonance absorption (Mossbauer effect)	2223/20	. Sources of radiation
2223/045	. combination of at least 2 measurements (transmission and scatter)	2223/201	. . betatron
2223/05	. by diffraction, scatter or reflection	2223/202	. . isotopes
2223/051	. . correcting for scatter	2223/203	. . synchrotron
2223/052	. . reflection	2223/204	. . source created from radiated target
2223/053	. . back scatter	2223/205	. . natural source
2223/054	. . small angle scatter	2223/206	. . sources operating at different energy levels
2223/055	. . scatter raster collimator	2223/30	. Accessories, mechanical or electrical features
2223/056	. . diffraction	2223/301	. . portable apparatus
2223/0561	. . . diffraction cameras	2223/302	. . comparative arrangements
2223/0563	. . . measure of energy-dispersion spectrum of diffracted radiation	2223/303	. . calibrating, standardising
2223/0565	. . . diffraction of electrons, e.g. LEED	2223/3032	. . . periodic calibration, e.g. with filter wheel
2223/0566	. . . analysing diffraction pattern	2223/3035	. . . phantom
2223/0568	. . . spectro-diffractometry	2223/3037	. . . standards (constitution)
2223/063	. . inelastic scatter, e.g. Compton effect	2223/304	. . electric circuits, signal processing
2223/064	. . interference of radiation, e.g. Borrmann effect	2223/305	. . computer simulations
2223/07	. secondary emission	2223/306	. . computer control
2223/071	. . combination of measurements, at least 1 secondary emission	2223/307	. . cuvettes-sample holders
2223/072	. . combination of measurements, 2 kinds of secondary emission	2223/3075	. . . correcting for the properties of the container, e.g. empty
2223/073	. . use of a laser	2223/308	. . support of radiation source
2223/074	. . activation analysis	2223/309	. . support of sample holder
2223/0745	. . . neutron-gamma activation analysis	2223/31	. . temperature control
2223/076	. . X-ray fluorescence	2223/3103	. . . cooling, cryostats
2223/0763	. . . Compton background correcting	2223/3106	. . . heating, furnaces
2223/0766	. . . X-ray fluorescence with indicator, tags	2223/311	. . high pressure testing, anvil cells
2223/079	. . incident electron beam and measuring excited X-rays	2223/312	. . powder preparation
2223/08	. . incident electron beam and measuring cathode luminescence (U.V.)	2223/313	. . filters, rotating filter disc
2223/081	. . incident ion beam, e.g. proton	2223/314	. . chopper
2223/0813	. . . incident ion beam and measuring X-rays [PIXE]	2223/315	. . monochromators
2223/0816	. . . incident ion beam and measuring secondary ion beam [SIMS]	2223/316	. . collimators
2223/084	. . photo-electric effect	2223/317	. . windows
2223/085	. . photo-electron spectrum [ESCA, XPS]	2223/318	. . protective films
2223/086	. . Auger electrons	2223/319	. . using opaque penetrant medium
2223/09	. . exo-electron emission	2223/32	. . adjustments of elements during operation
2223/095	. . tribo-emission	2223/321	. . manipulator for positioning a part
2223/10	. Different kinds of radiation or particles	2223/322	. . immersed detecting head
2223/1003	. . monochromatic	2223/323	. . irradiation range monitor, e.g. light beam
		2223/33	. . scanning, i.e. relative motion for measurement of successive object-parts
		2223/3301	. . . beam is modified for scan, e.g. moving collimator
		2223/3302	. . . object and detector fixed
		2223/3303	. . . object fixed; source and detector move
		2223/3304	. . . helicoidal scan
		2223/3305	. . . detector fixed; source and body moving
		2223/3306	. . . object rotates

2223/3307	. . . source and detector fixed; object moves	2223/606	. . texture
2223/3308	. . . object translates	2223/607	. . strain
2223/331	. . rocking curve analysis	2223/608	. . superconductors
2223/335	. . electronic scanning	2223/61	. . thin films, coatings
2223/34	. . sensing means for gap between source and detector	2223/611	. . patterned objects; electronic devices
2223/345	. . mathematical transformations on beams or signals, e.g. Fourier	2223/6113	. . . printed circuit board [PCB]
2223/348	. . ellipsoidal collector	2223/6116	. . . semiconductor wafer
2223/351	. . prohibiting charge accumulation on sample substrate	2223/612	. . biological material
2223/40	. Imaging	2223/6123	. . . bone mineral
2223/401	. . image processing	2223/6126	. . . tissue
2223/402	. . mapping distribution of elements	2223/613	. . moisture
2223/403	. . mapping with false colours	2223/614	. . road surface
2223/404	. . contrast medium	2223/615	. . composite materials, multilayer laminates
2223/405	. . mapping of a material property	2223/616	. . earth materials
2223/406	. . fluoroscopic image	2223/617	. . ash in coal
2223/407	. . stimuable phosphor sheet	2223/618	. . food
2223/408	. . display on monitor	2223/619	. . wood
2223/409	. . embedding or impregnating the object	2223/62	. . powders
2223/41	. . imaging specifically internal structure	2223/621	. . tobacco
2223/411	. . tv imaging from fluorescent screen	2223/622	. . paper
2223/412	. . use of image converter tube [PMT]	2223/623	. . plastics
2223/413	. . sensor array [CCD]	2223/624	. . steel, castings
2223/414	. . stereoscopic system	2223/625	. . nuclear fuels, laser imploded targets
2223/415	. . radiographic film	2223/626	. . radioactive material
2223/416	. . wrap around	2223/6265	. . . sample with radioactive tracer, tag, label
2223/417	. . recording with co-ordinate markings	2223/627	. . tyres
2223/418	. . electron microscope	2223/628	. . tubes, pipes
2223/419	. . computed tomograph	2223/629	. . welds, bonds, sealing compounds
2223/42	. . image digitised, -enhanced in an image processor	2223/63	. . turbine blades
2223/421	. . digitised image, analysed in real time (recognition algorithms)	2223/631	. . large structures, walls
2223/422	. . windows within the image	2223/632	. . residual life, life expectancy
2223/423	. . multispectral imaging-multiple energy imaging	2223/633	. . thickness, density, surface weight (unit area)
2223/424	. . energy subtraction image processing (dual energy processing)	2223/634	. . wear behaviour, roughness
2223/425	. . temporal (time difference) subtraction processing	2223/635	. . fluids, granulates
2223/426	. . image comparing, unknown with known substance	2223/636	. . fluid sample with radioactive sources
2223/427	. . stepped imaging (selected area of sample is changed)	2223/637	. . liquid
2223/50	. Detectors	2223/638	. . gas
2223/501	. . array	2223/639	. . material in a container
2223/5015	. . . linear array	2223/64	. . multiple-sample chamber, multiplicity of materials
2223/502	. . ionisation chamber	2223/641	. . particle sizing
2223/503	. . auxiliary reference detector	2223/642	. . moving sheet, web
2223/504	. . pin-diode	2223/6425	. . . correcting for web flutter
2223/505	. . scintillation	2223/643	. . object on conveyor
2223/5055	. . . scintillation crystal coupled to PMT	2223/645	. . quality control
2223/506	. . time-of-flight	2223/646	. . flaws, defects
2223/507	. . secondary-emission detector	2223/6462	. . . microdefects
2223/508	. . photo-acoustic	2223/6464	. . . radioactive substance into defect site
2223/509	. . infrared	2223/6466	. . . flaws comparing to predetermined standards
2223/60	. Specific applications or type of materials	2223/6468	. . . at different temperatures
2223/601	. . density profile	2223/647	. . leak detection
2223/602	. . crystal growth	2223/648	. . voids
2223/603	. . superlattices	2223/649	. . porosity
2223/604	. . monocrystal	2223/65	. . cavitation pits
2223/605	. . phases	2223/651	. . dust
		2223/652	. . impurities, foreign matter, trace amounts
		2223/66	. . multiple steps inspection, e.g. coarse/fine
		<b>2291/00</b>	<b>Indexing codes associated with group <a href="#">G01N 29/00</a></b>
		2291/01	. . Indexing codes associated with the measuring variable
		2291/011	. . Velocity or travel time

2291/012	. .	Phase angle	2291/04	. . .	Wave modes and trajectories
2291/014	. .	Resonance or resonant frequency	2291/042	. . .	Wave modes
2291/015	. .	Attenuation, scattering	2291/0421	. . .	Longitudinal waves
2291/017	. .	Doppler techniques	2291/0422	. . .	Shear waves, transverse waves, horizontally polarised waves
2291/018	. .	Impedance	2291/0423	. . .	Surface waves, e.g. Rayleigh waves, Love waves
2291/02	. .	Indexing codes associated with the analysed material	2291/0425	. . .	Parallel to the surface, e.g. creep waves
2291/021	. .	Gases	2291/0426	. . .	Bulk waves, e.g. quartz crystal microbalance, torsional waves
2291/0212	. . .	Binary gases	2291/0427	. . .	Flexural waves, plate waves, e.g. Lamb waves, tuning fork, cantilever
2291/0215	. . .	Mixtures of three or more gases, e.g. air	2291/0428	. . .	Mode conversion
2291/0217	. . .	Smoke, combustion gases	2291/043	. .	Complex trajectories
2291/022	. .	Liquids	2291/044	. .	Internal reflections (echoes), e.g. on walls or defects
2291/0222	. . .	Binary liquids	2291/045	. .	External reflections, e.g. on reflectors
2291/0224	. . .	Mixtures of three or more liquids	2291/048	. .	Transmission, i.e. analysed material between transmitter and receiver
2291/0226	. . .	Oils, e.g. engine oils	2291/051	. .	Perpendicular incidence, perpendicular propagation
2291/0228	. . .	Aqueous liquids	2291/052	. .	Perpendicular incidence, angular propagation
2291/023	. .	Solids	2291/055	. .	Angular incidence, perpendicular propagation
2291/0231	. . .	Composite or layered materials	2291/056	. .	Angular incidence, angular propagation
2291/0232	. . .	Glass, ceramics, concrete or stone	2291/057	. .	Angular incidence, parallel to surface propagation
2291/0234	. . .	Metals, e.g. steel	2291/10	. .	Number of transducers
2291/0235	. . .	Plastics; polymers; soft materials, e.g. rubber	2291/101	. .	one transducer
2291/0237	. . .	Thin materials, e.g. paper, membranes, thin films	2291/102	. .	one emitter, one receiver
2291/0238	. . .	Wood	2291/103	. .	one emitter, two or more receivers
2291/024	. .	Mixtures	2291/104	. .	two or more emitters, one receiver
2291/02408	. . .	Solids in gases, e.g. particle suspensions	2291/105	. .	two or more emitters, two or more receivers
2291/02416	. . .	Solids in liquids	2291/106	. .	one or more transducer arrays
2291/02425	. . .	Liquids in gases, e.g. sprays	2291/26	. .	Scanned objects
2291/02433	. . .	Gases in liquids, e.g. bubbles, foams	2291/262	. .	Linear objects
2291/02441	. . .	Liquids in porous solids	2291/2623	. . .	Rails; Railroads
2291/0245	. . .	Gases in porous solids	2291/2626	. . .	Wires, bars, rods
2291/02458	. . .	Solids in solids, e.g. granules	2291/263	. .	Surfaces
2291/02466	. . .	Biological material, e.g. blood	2291/2632	. . .	flat
2291/02475	. . .	Tissue characterisation	2291/2634	. . .	cylindrical from outside
2291/02483	. . .	Other human or animal parts, e.g. bones	2291/2636	. . .	cylindrical from inside
2291/02491	. . .	Materials with nonlinear acoustic properties	2291/2638	. . .	Complex surfaces
2291/025	. .	Change of phase or condition	2291/265	. .	Spherical objects
2291/0251	. . .	Solidification, icing, curing composites, polymerisation	2291/267	. .	Welds
2291/0252	. . .	Melting, molten solids	2291/2672	. . .	Spot welding
2291/0253	. . .	Condensation	2291/2675	. . .	Seam, butt welding
2291/0254	. . .	Evaporation	2291/2677	. . .	Lapp welding
2291/0255	. . .	(Bio)chemical reactions, e.g. on biosensors	2291/269	. .	Various geometry objects
2291/0256	. . .	Adsorption, desorption, surface mass change, e.g. on biosensors	2291/2691	. . .	Bolts, screws, heads
2291/0257	. . . .	with a layer containing at least one organic compound	2291/2692	. . .	Tyres
2291/0258	. . .	Structural degradation, e.g. fatigue of composites, ageing of oils	2291/2693	. . .	Rotor or turbine parts
2291/028	. .	Material parameters	2291/2694	. . .	Wings or other aircraft parts
2291/02809	. . .	Concentration of a compound, e.g. measured by a surface mass change	2291/2695	. . .	Bottles, containers
2291/02818	. . .	Density, viscosity	2291/2696	. . .	Wheels, Gears, Bearings
2291/02827	. . .	Elastic parameters, strength or force	2291/2697	. . .	Wafer or (micro)electronic parts
2291/02836	. . .	Flow rate, liquid level	2291/2698	. . .	Other discrete objects, e.g. bricks
2291/02845	. . .	Humidity, wetness			
2291/02854	. . .	Length, thickness			
2291/02863	. . .	Electric or magnetic parameters			
2291/02872	. . .	Pressure			
2291/02881	. . .	Temperature			
2291/0289	. . .	Internal structure, e.g. defects, grain size, texture			
			2333/00		Assays involving biological materials from specific organisms or of a specific nature
					<b>NOTE</b>
					In groups <a href="#">G01N 2333/47</a> - <a href="#">G01N 2333/994</a> indexing codes are assigned according to the

chemical nature of the materials irrespective of the source organism.

- 2333/001 . . . by chemical synthesis
- 2333/003 . . . of Peptide-nucleic acids (PNAs)
- 2333/005 . . . from viruses
- 2333/01 . . . DNA viruses
- 2333/015 . . . Parvoviridae, e.g. feline panleukopenia virus, human Parvovirus
- 2333/02 . . . Hepadnaviridae, e.g. hepatitis B virus
- 2333/025 . . . Papovaviridae, e.g. papillomavirus, polyomavirus, SV40, BK virus, JC virus
- 2333/03 . . . Herpetoviridae, e.g. pseudorabies virus
- 2333/032 . . . . Pseudorabies virus, i.e. Aujetzký virus
- 2333/035 . . . . Herpes simplex virus I or II
- 2333/04 . . . . Varicella-zoster virus
- 2333/045 . . . . . Cytomegalovirus
- 2333/05 . . . . Epstein-Barr virus
- 2333/055 . . . . Marek's disease virus
- 2333/06 . . . . Infectious bovine rhinotracheitis virus
- 2333/065 . . . . Poxviridae, e.g. avipoxvirus
- 2333/07 . . . . Vaccinia virus; Variola virus
- 2333/075 . . . . Adenoviridae
- 2333/08 . . . RNA viruses
- 2333/085 . . . Picornaviridae, e.g. coxsackie virus, echovirus, enterovirus
- 2333/09 . . . . Foot-and-mouth disease virus
- 2333/095 . . . . Rhinovirus
- 2333/10 . . . . Hepatitis A virus
- 2333/105 . . . . Poliovirus
- 2333/11 . . . . Orthomyxoviridae, e.g. influenza virus
- 2333/115 . . . . Paramyxoviridae, e.g. parainfluenza virus
- 2333/12 . . . . Mumps virus; Measles virus
- 2333/125 . . . . Newcastle disease virus
- 2333/13 . . . . Canine distemper virus
- 2333/135 . . . . Respiratory syncytial virus
- 2333/14 . . . Reoviridae, e.g. rotavirus, bluetongue virus, Colorado tick fever virus
- 2333/145 . . . Rhabdoviridae, e.g. rabies virus, Duvenhage virus, Mokola virus or vesicular stomatitis virus
- 2333/15 . . . Retroviridae, e.g. bovine leukaemia virus, feline leukaemia virus, feline leukaemia virus, human T-cell leukaemia-lymphoma virus
- 2333/155 . . . . Lentiviridae, e.g. visna-maedi virus, equine infectious virus, FIV, SIV
- 2333/16 . . . . . HIV-1, HIV-2
- 2333/161 . . . . . gag-pol, e.g. p55, p24/25, p17/18, p7, p6, p66/68, p51/52, p31/34, p32, p40
- 2333/162 . . . . . env, e.g. gp160, gp110/120, gp41, V3, peptid T, DC4-Binding site
- 2333/163 . . . . . Regulatory proteins, e.g. tat, nef, rev, vif, vpu, vpr, vpt, vpx
- 2333/165 . . . . Coronaviridae, e.g. avian infectious bronchitis virus
- 2333/17 . . . . Porcine transmissible gastroenteritis virus
- 2333/175 . . . Bunyaviridae, e.g. California encephalitis virus, Rift valley fever virus, Hantaan virus
- 2333/18 . . . . Togaviridae; Flaviviridae
- 2333/181 . . . . Alphaviruses or Group A arboviruses, e.g. sindbis, VEE, EEE, WEE or semliki forest virus ([rubella virus G01N 2333/19](#))

- 2333/183 . . . . Flaviviridae, e.g. pestivirus, mucosal disease virus, bovine viral diarrhoea virus, classical swine fever virus (hog cholera virus) or border disease virus

- 2333/185 . . . . . Flaviviruses or Group B arboviruses, e.g. yellow fever virus, japanese encephalitis, tick-borne encephalitis, dengue

- 2333/186 . . . . . Hepatitis C; Hepatitis NANB

- 2333/188 . . . . . Hepatitis G; Hepatitis NANBNCNDNE

- 2333/19 . . . . Rubella virus

- 2333/195 . . . from bacteria

#### NOTE

In groups [G01N 2333/20](#) - [G01N 2333/365](#), where appropriate, after the bacteria terminology, the indication of the order (O), family (F) or genus (G) of the bacteria is given in brackets.

- 2333/20 . . . from Spirochaetales (O), e.g. Treponema, Leptospira

- 2333/205 . . . from Campylobacter (G)

- 2333/21 . . . from Pseudomonadaceae (F)

- 2333/212 . . . Moraxellaceae, e.g. Acinetobacter, Moraxella, Oligella or Psychrobacter

- 2333/215 . . . from Halobacteriaceae (F)

- 2333/22 . . . from Neisseriaceae (F), e.g. Acinetobacter

- 2333/225 . . . from Alcaligenes (G)

- 2333/23 . . . from Brucella (G)

- 2333/235 . . . from Bordetella (G)

- 2333/24 . . . from Enterobacteriaceae (F), e.g. Citrobacter, Serratia, Proteus, Providencia, Morganella, Yersinia

- 2333/245 . . . Escherichia (G)

- 2333/25 . . . Shigella (G)

- 2333/255 . . . Salmonella (G)

- 2333/26 . . . Klebsiella (G)

- 2333/265 . . . Enterobacter (G)

- 2333/27 . . . Erwinia (G)

- 2333/275 . . . Hafnia (G)

- 2333/28 . . . from Vibrionaceae (F)

- 2333/285 . . . from Pasteurellaceae (F), e.g. Haemophilus influenza

- 2333/29 . . . from Richettsiales (o)

- 2333/295 . . . from Chlamydiales (o)

- 2333/30 . . . from Mycoplasmatales, e.g. Pleuropneumonia-like organisms [PPLo]

- 2333/305 . . . from Micrococcaceae (F)

- 2333/31 . . . from Staphylococcus (G)

- 2333/315 . . . from Streptococcus (G), e.g. Enterococci

- 2333/3153 . . . Streptokinase

- 2333/3156 . . . from Streptococcus pneumoniae (Pneumococcus) ([Streptokinase G01N 2333/3153](#))

- 2333/32 . . . from Bacillus (G)

- 2333/325 . . . Bacillus thuringiensis crystal protein (delta-endotoxin)

- 2333/33 . . . from Clostridium (G)

- 2333/335 . . . from Lactobacillus (G)

- 2333/34 . . . from Corynebacterium (G)

- 2333/345 . . . from Brevibacterium (G)

- 2333/35 . . . from Mycobacteriaceae (F)

- 2333/355 . . . from Nocardia (G)



2333/36	. . from Actinomyces; from Streptomyces (G)	2333/465	. . . from birds
2333/365	. . from Actinoplanes (G)	2333/47	. . . Assays involving proteins of known structure or function as defined in the subgroups
2333/37	. from fungi	2333/4701	. . . . Details
2333/375	. . from Basidiomycetes	2333/4703	. . . . . Regulators; Modulating activity
2333/38	. . from Aspergillus	2333/4704	. . . . . Inhibitors; Suppressors
2333/385	. . from Penicillium	2333/4706	. . . . . stimulating, promoting or activating activity
2333/39	. . from yeasts	2333/4707	. . . . . Guanosine triphosphatase activating protein, GAP
2333/395	. . . from Saccharomyces	2333/4709	. . . . . Amyloid plaque core protein
2333/40	. . . from Candida	2333/471	. . . . . Pregnancy proteins, e.g. placenta proteins, alpha-feto-protein, pregnancy specific beta glycoprotein
2333/405	. from algae	2333/4712	. . . . . Muscle proteins, e.g. myosin, actin, protein
2333/41	. from lichens	2333/4713	. . . . . Plasma globulins, lactoglobulin
2333/415	. from plants	2333/4715	. . . . . Cytokine-induced proteins
2333/42	. . Lectins, e.g. concanavalin, phytohaemagglutinin	2333/4716	. . . . . Complement proteins, e.g. anaphylatoxin, C3a, C5a
2333/425	. . Zeins	2333/4718	. . . . . Lipocortins
2333/43	. . Sweetening agents, e.g. thaumatin, monellin	2333/4719	. . . . . G-proteins
2333/435	. from animals; from humans	2333/4721	. . . . . Cationic antimicrobial peptides, e.g. defensins
2333/43504	. . from invertebrates	2333/4722	. . . . . Proteoglycans, e.g. aggrecan
2333/43508	. . . from crustaceans	2333/4724	. . . . . Lectins
2333/43513	. . . from arachnidae	2333/4725	. . . . . Mucins, e.g. human intestinal mucin
2333/43517	. . . . from spiders	2333/4727	. . . . . Calcium binding proteins, e.g. calmodulin
2333/43521	. . . . from scorpions	2333/4728	. . . . . alpha-Glycoproteins
2333/43526	. . . . from worms	2333/473	. . . . . Recognins, e.g. malignin
2333/4353	. . . . from nematodes	2333/4731	. . . . . Casein
2333/43534	. . . . . from Caenorhabditis	2333/4733	. . . . . Acute pancreatitis-associated protein
2333/43539	. . . . from cestodes	2333/4734	. . . . . Villin
2333/43543	. . . . . from Taenia	2333/4736	. . . . . Retinoblastoma protein
2333/43547	. . . . from trematodes	2333/4737	. . . . . C-reactive protein
2333/43552	. . . . from insects	2333/4739	. . . . . Cyclin; Prad 1
2333/43556	. . . . from ticks	2333/474	. . . . . Pancreatic thread protein; Reg protein
2333/4356	. . . . from wasps	2333/4742	. . . . . Keratin; Cytokeratin
2333/43565	. . . . from bees	2333/4743	. . . . . Bactericidal/Permeability-increasing protein BPI
2333/43569	. . . . from flies	2333/4745	. . . . . Insulin-like growth factor binding protein
2333/43573	. . . . . from Drosophila	2333/4746	. . . . . Cancer-associated SCM-recognition factor, CRISPP
2333/43578	. . . . from silkworm	2333/4748	. . . . . p53
2333/43582	. . . . from mites	2333/475	. . Assays involving growth factors
2333/43586	. . . . from fleas	2333/4753	. . . Hepatocyte growth factor; Scatter factor; Tumor cytotoxic factor II
2333/43591	. . . . from mosquitoes	2333/4756	. . . Neuregulins, i.e. p185erbB2 ligands, glial growth factor, heregulin, ARIA, neu differentiation factor
2333/43595	. . . from coelenteratae, e.g. medusae	2333/48	. . . Nerve growth factor [NGF]
2333/44	. . from protozoa	2333/485	. . . Epidermal growth factor [EGF] (urogastrone)
2333/445	. . . Plasmodium	2333/49	. . . Platelet-derived growth factor [PDGF]
2333/45	. . . Toxoplasma	2333/495	. . . Transforming growth factor [TGF]
2333/455	. . . Eimeria	2333/50	. . . Fibroblast growth factors [FGF]
2333/46	. . from vertebrates	2333/501	. . . . acidic FGF [aFGF]
2333/4603	. . . from fish	2333/503	. . . . basic FGF [bFGF]
2333/4606	. . . from amphibians	2333/505	. . . Erythropoietin [EPO]
2333/4609	. . . from reptiles	2333/51	. . . Bone morphogenetic factor; Osteogenins; Osteogenic factor; Bone-inducing factor
2333/4613	. . . . Snake venom	2333/515	. . . Angiogenesis factors; Angiogenin
2333/4616	. . . . . from Russell's viper	2333/52	. . Assays involving cytokines
2333/462	. . . . . from Agkistrodon sp., e.g. acutase, ACTE		
2333/4623	. . . . . from Agkistrodon rhodostoma (Malayan pit viper); Arvin (R); Batroboxin; Ancrod		
2333/4626	. . . . . from Agkistrodon contortrix contortrix (copperhead snake); Protac (R)		
2333/463	. . . . . from Croतालus adamanteus (Eastern Diamondback rattlesnake); Crotolese		
2333/4633	. . . . . from Echis carinatus; Ecarin		
2333/4636	. . . . . from Bothrops sp.		
2333/464	. . . . . from Bothrops atrox; Reptilase; Atroxin		
2333/4643	. . . . . from Bothrops jararaca; Botrocetin		
2333/4646	. . . . . from Oxyuran(eo)us scutellatus (Taipan snake of Elapidae family)		

2333/521	. . .	Chemokines	2333/60	. . .	Growth-hormone releasing factors (GH-RF) (Somatoliberin)
2333/522	. . . .	Alpha-chemokines, e.g. NAP-2, ENA-78, GRO-alpha/MGSA/NAP-3, GRO-beta/MIP-2alpha, GRO-gamma/MIP-2beta, IP-10, GCP-2, MIG, PBSF, PF-4 or KC	2333/605	. . .	Glucagons
2333/523	. . . .	Beta-chemokines, e.g. RANTES, I-309/TCA-3, MIP-1alpha, MIP-1beta/ACT-2/LD78/SCIF, MCP-1/MCAF, MCP-2, MCP-3, LDCF-1or LDCF-2	2333/61	. . .	Growth hormones [GH] (Somatotropin)
2333/524	. . .	Thrombopoietin, i.e. C-MPL ligand	2333/62	. . .	Insulins
2333/525	. . .	Tumor necrosis factor [TNF]	2333/63	. . .	Motilins
2333/5255	. . . .	Lymphotoxin [LT]	2333/635	. . .	Parathyroid hormone (parathormone); Parathyroid hormone-related peptides
2333/53	. . .	Colony-stimulating factor [CSF]	2333/64	. . .	Relaxins
2333/535	. . . .	Granulocyte CSF; Granulocyte-macrophage CSF	2333/645	. . .	Secretins
2333/54	. . .	Interleukins [IL]	2333/65	. . .	Insulin-like growth factors (Somatomedins), e.g. IGF-1, IGF-2
2333/5403	. . . .	IL-3	2333/655	. . .	Somatostatins
2333/5406	. . . .	IL-4	2333/66	. . .	Thymopoietins
2333/5409	. . . .	IL-5	2333/665	. .	Assays involving proteins derived from pro-opiomelanocortin, pro-enkephalin or pro-dynorphin
2333/5412	. . . .	IL-6	2333/67	. . .	Lipotropins, e.g. beta, gamma lipotropin
2333/5415	. . . .	Leukaemia inhibitory factor [LIF]	2333/675	. . .	beta-Endorphins
2333/5418	. . . .	IL-7	2333/68	. . .	Melanocyte-stimulating hormone [MSH]
2333/5421	. . . .	IL-8	2333/685	. . . .	alpha-Melanotropin
2333/5425	. . . .	IL-9	2333/69	. . . .	beta-Melanotropin
2333/5428	. . . .	IL-10	2333/695	. . .	Corticotropin [ACTH]
2333/5431	. . . .	IL-11	2333/70	. . .	Enkephalins
2333/5434	. . . .	IL-12	2333/705	. .	Assays involving receptors, cell surface antigens or cell surface determinants
2333/5437	. . . .	IL-13	2333/70503	. . .	Immunoglobulin superfamily, e.g. VCAMs, PECAM, LFA-3
2333/544	. . . .	IL-14	2333/70507	. . . .	C2D
2333/5443	. . . .	IL-15	2333/7051	. . . .	T-cell receptor (TcR)-CD3 complex
2333/5446	. . . .	IL-16	2333/70514	. . . .	CD4
2333/545	. . . .	IL-1	2333/70517	. . . .	CD8
2333/55	. . . .	IL-2	2333/70521	. . . .	CD28, CD152
2333/555	. . .	Interferons [IFN]	2333/70525	. . . .	ICAM molecules, e.g. CD50, CD54, CD102
2333/56	. . . .	IFN-alpha	2333/70528	. . . .	CD58
2333/565	. . . .	IFN-beta	2333/70532	. . . .	B7 molecules, e.g. CD80, CD86
2333/57	. . . .	IFN-gamma	2333/70535	. . . .	Fc-receptors, e.g. CD16, CD32, CD64 (CD2314/705F)
2333/575	. .	Hormones (derived from pro-opiomelanocortin, pro-enkephalin or pro-dynorphin <a href="#">G01N 2333/665</a> , corticotropin <a href="#">G01N 2333/695</a> )	2333/70539	. . . .	MHC-molecules, e.g. HLA-molecules
2333/5751	. . .	Corticotropin releasing factor [CRF] (Urotensin)	2333/70542	. . . .	CD106
2333/5752	. . .	Placental lactogen; Chorionic Somatomammotropin	2333/70546	. . .	Integrin superfamily, e.g. VLAs, leuCAM, GPIIb/GPIIIa, LPAM
2333/5753	. . .	Calcitonin gene related peptide	2333/7055	. . . .	Integrin beta1-subunit-containing molecules, e.g. CD29, CD49
2333/5754	. . .	Endothelin, vasoactive intestinal contractor [VIC]	2333/70553	. . . .	Integrin beta2-subunit-containing molecules, e.g. CD11, CD18
2333/5755	. . .	Neuropeptide Y	2333/70557	. . . .	Integrin beta3-subunit-containing molecules, e.g. CD41, CD51, CD61
2333/5756	. . .	Prolactin	2333/7056	. . .	Selectin superfamily, e.g. LAM-1, GlyCAM, ELAM-1, PADGEM
2333/5757	. . .	Vasoactive intestinal peptide [VIP] or related peptides	2333/70564	. . . .	Selectins, e.g. CD62
2333/5758	. . .	Gastrin releasing peptide	2333/70567	. . .	Nuclear receptors, e.g. retinoic acid receptor [RAR], RXR, nuclear orphan receptors
2333/5759	. . .	Thymosin or related peptides	2333/70571	. . .	for neuromediators, e.g. serotonin receptor, dopamine receptor
2333/58	. . .	Atrial natriuretic factor complex; Atriopeptin; Atrial natriuretic peptide [ANP]; Brain natriuretic peptide [BNP, proBNP]; Cardionatrin; Cardiodilatin	2333/70575	. . .	NGF/TNF-superfamily, e.g. CD70, CD95L, CD153 or CD154 ( <a href="#">NGF G01N 2333/48</a> , <a href="#">TNF G01N 2333/525</a> )
2333/585	. . .	Calcitonins	2333/70578	. . .	NGF-receptor/TNF-receptor superfamily, e.g. CD27, CD30 CD40 or CD95 ( <a href="#">NGF-receptor G01N 2333/71</a> , <a href="#">TNF-receptor G01N 2333/7151</a> )
2333/59	. . .	Follicle-stimulating hormone [FSH]; Chorionic gonadotropins, e.g. HCG; Luteinising hormone [LH]; Thyroid-stimulating hormone [TSH]	2333/70582	. . .	CD71
2333/595	. . .	Gastrins; Cholecystokinins [CCK]			

2333/70585	. . .	CD44	2333/815	. .	from leeches, e.g. hirudin, eglin
2333/70589	. . .	CD45	2333/82	. .	Translation products from oncogenes
2333/70592	. . .	CD52	2333/825	. .	Metallothioneins
2333/70596	. . .	Molecules with a "CD"-designation not provided for elsewhere in <a href="#">G01N 2333/705</a>	2333/90	. .	Enzymes; Proenzymes
2333/71	. . .	for growth factors; for growth regulators	<b>NOTE</b>		
2333/715	. . .	for cytokines; for lymphokines; for interferons	Enzymes are generally categorised below according to the "Nomenclature and Classification of Enzymes" of the International Commission on Enzymes. Where appropriate, this designation appears in the groups below in parenthesis.		
2333/7151	. . . .	for tumor necrosis factor [TNF]; for lymphotoxin [LT]	2333/9005	. .	Enzymes with nucleic acid structure; e.g. ribozymes
2333/7153	. . . .	or colony-stimulating factors [CSF]	2333/901	. .	Antibodies with enzymatic activity; e.g. abzymes
2333/7155	. . . .	for interleukins [IL]	2333/9015	. .	Ligases (6)
2333/7156	. . . .	for interferons [IFN]	2333/902	. .	Oxidoreductases (1.)
2333/7158	. . . .	for chemokines	2333/90203	. . .	acting on the aldehyde or oxo group of donors (1.2)
2333/72	. . .	for hormones ( <a href="#">for neuromediators G01N 2333/70571</a> )	2333/90206	. . .	acting on the CH-CH group of donors (1.3)
2333/723	. . . .	Steroid/thyroid hormone superfamily, e.g. GR, EcR, androgen receptor, oestrogen receptor	2333/90209	. . .	acting on NADH or NADPH (1.6), e.g. those with a heme protein as acceptor (1.6.2) (general), Cytochrome-b5 reductase (1.6.2.2) or NADPH-cytochrome P450 reductase (1.6.2.4)
2333/726	. . . .	G protein coupled receptor, e.g. TSHR-thyrotropin-receptor, LH/hCG receptor, FSH	2333/90212	. . .	acting on a sulfur group of donors (1.8)
2333/745	. .	Assays involving non-enzymic blood coagulation factors	2333/90216	. . .	acting on a heme group of donors (1.9)
2333/7452	. . .	Thrombomodulin	2333/90219	. . .	acting on diphenols and related substances as donors (1.10)
2333/7454	. . .	Tissue factor (tissue thromboplastin, Factor III)	2333/90222	. . . .	with oxygen as acceptor (1.10.3) in general
2333/7456	. . .	Factor V	2333/90225	. . . . .	with a definite EC number (1.10.3.-)
2333/7458	. . .	Protein S	2333/90229	. . . . .	Catechol oxidase, i.e. Tyrosinase (1.10.3.1)
2333/75	. . .	Fibrin; Fibrinogen	2333/90232	. . . . .	Laccase (1.10.3.2)
2333/755	. . .	Factors VIII, e.g. factor VIII C [AHF], factor VIII Ag [VWF]	2333/90235	. . . . .	Ascorbate oxidase (1.10.3.3)
2333/76	. .	Assays involving albumins other than in routine use for blocking surfaces or for anchoring haptens during immunisation	2333/90238	. . .	acting on hydrogen as donor (1.12)
2333/765	. . .	Serum albumin, e.g. HSA	2333/90241	. . .	acting on single donors with incorporation of molecular oxygen, i.e. oxygenases (1.13)
2333/77	. . .	Ovalbumin	2333/90245	. . .	acting on paired donors with incorporation of molecular oxygen (1.14)
2333/775	. .	Apolipoproteins	2333/90248	. . . .	with NADH or NADPH as one of the donors, and incorporation of one atom of oxygen 1.14.13
2333/78	. .	Connective tissue peptides, e.g. collagen, elastin, laminin, fibronectin, vitronectin, cold insoluble globulin [CIG]	2333/90251	. . . . .	with a definite EC number (1.14.13.-)
2333/785	. .	Alveolar surfactant peptides; Pulmonary surfactant peptides	2333/90254	. . . . .	Nitric-oxide synthase (NOS; 1.14.13.39)
2333/79	. .	Transferrins, e.g. lactoferrins, ovotransferrins	2333/90258	. . . .	with a reduced iron-sulfur protein as one donor (1.14.15) in general
2333/795	. .	Porphyrin- or corrin-ring-containing peptides	2333/90261	. . . . .	with a definite EC number (1.14.15.-)
2333/80	. .	Cytochromes	2333/90264	. . . . .	Steroid 11 beta monooxygenase (P-450 protein)(1.14.15.4)
2333/805	. .	Haemoglobins; Myoglobins	2333/90267	. . . . .	Cholesterol monooxygenase (cytochrome P 450 <sub>sc</sub> )(1.14.15.6)
2333/81	. .	Protease inhibitors	2333/9027	. . . .	Miscellaneous (1.14.99)
2333/8103	. .	Exopeptidase (E.C. 3.4.11-19) inhibitors	2333/90274	. . . . .	with a definite EC number (1.14.99.-)
2333/8107	. .	Endopeptidase (E.C. 3.4.21-99) inhibitors	2333/90277	. . . . .	Steroid 17 alpha-monooxygenase (1.14.99.9)
2333/811	. . .	Serine protease (E.C. 3.4.21) inhibitors	2333/9028	. . . . .	Steroid 21-monooxygenase (1.14.99.10)
2333/8114	. . . .	Kunitz type inhibitors	2333/90283	. . .	acting on superoxide radicals as acceptor (1.15)
2333/8117	. . . . .	Bovine/basic pancreatic trypsin inhibitor (BPTI, aprotinin)	2333/90287	. . .	oxidising metal ions (1.16)
2333/8121	. . . .	Serpins	2333/9029	. . .	acting on -CH <sub>2</sub> - groups (1.17)
2333/8125	. . . . .	Alpha-1-antitrypsin	2333/90293	. . .	acting on reduced ferredoxin as donor (1.18)
2333/8128	. . . . .	Antithrombin III	2333/90296	. . .	acting on reduced flavodoxin as donor (1.19)
2333/8132	. . . . .	Plasminogen activator inhibitors	2333/904	. . .	acting on CHOH groups as donors, e.g. glucose oxidase, lactate dehydrogenase (1.1)
2333/8135	. . . .	Kazal type inhibitors, e.g. pancreatic secretory inhibitor or ovomucoid			
2333/8139	. . .	Cysteine protease (E.C. 3.4.22) inhibitors, e.g. cystatin			
2333/8142	. . .	Aspartate protease (E.C. 3.4.23) inhibitors, e.g. HIV protease inhibitors			
2333/8146	. . .	Metalloprotease (E.C. 3.4.24) inhibitors, e.g. tissue inhibitor of metallo proteinase, TIMP			

2333/906	. . . acting on nitrogen containing compounds as donors (1.4, 1.5, 1.7)	2333/91171	. . . . . with definite EC number (2.5.1.-)
2333/90605	. . . . acting on the CH-NH <sub>2</sub> group of donors (1.4)	2333/91177	. . . . . Glutathione transferases (2.5.1.18)
2333/90611	. . . . . with NAD or NADP as acceptor (1.4.1) in general	2333/91182	. . . . . Enolpyruvylshikimate-phosphate synthases (2.5.1.19)
2333/90616	. . . . . with a definite EC number (1.4.1.-)	2333/91188	. . . transferring nitrogenous groups (2.6)
2333/90622	. . . . . Phenylalanine dehydrogenase (1.4.1.20)	2333/91194	. . . transferring sulfur containing groups (2.8)
2333/90627	. . . . . with a cytochrome as acceptor (1.4.2)	2333/912	. . . transferring phosphorus containing groups, e.g. kinases (2.7)
2333/90633	. . . . . with oxygen as acceptor (1.4.3) in general	2333/91205	. . . . . Phosphotransferases in general
2333/90638	. . . . . with a definite EC number (1.4.3.-)	2333/9121	. . . . . with an alcohol group as acceptor (2.7.1), e.g. general tyrosine, serine or threonine kinases
2333/90644	. . . . . D-Amino acid oxidase (1.4.3.3)	2333/91215	. . . . . with a definite EC number (2.7.1.-)
2333/9065	. . . . acting on CH-NH groups of donors (1.5)	2333/9122	. . . . . Thymidine kinase (2.7.1.21)
2333/90655	. . . . . with NAD or NADP as acceptor (1.5.1) in general	2333/91225	. . . . . with a carboxyl group as acceptor (2.7.2)
2333/90661	. . . . . with a definite EC number (1.5.1.-)	2333/9123	. . . . . with a nitrogenous group as acceptor (2.7.3), e.g. histidine kinases
2333/90666	. . . . . Dihydrofolate reductase [DHFR] (1.5.1.3)	2333/91235	. . . . . with a phosphate group as acceptor (2.7.4)
2333/90672	. . . . . with oxygen as acceptor (1.5.3) in general	2333/9124	. . . . . Diphosphotransferases (2.7.6)
2333/90677	. . . . . with a definite EC number (1.5.3.-)	2333/91245	. . . . . Nucleotidyltransferases (2.7.7)
2333/90683	. . . . . Sarcosine oxidase (1.5.3.1)	2333/9125	. . . . . with a definite EC number (2.7.7.-)
2333/90688	. . . . acting on other nitrogen compounds as donors (1.7)	2333/91255	. . . . . DNA-directed RNA polymerase (2.7.7.6)
2333/90694	. . . . . with oxygen as acceptor (1.7.3), e.g. uricase (1.7.3.3)	2333/9126	. . . . . DNA-directed DNA polymerase (2.7.7.7)
2333/908	. . . acting on hydrogen peroxide as acceptor (1.11)	2333/91265	. . . . . Polyribonucleotide nucleotidyl transferases, i.e. polynucleotide phosphorylase (2.7.7.8)
2333/91	. . . Transferases (2.)	2333/9127	. . . . . DNA nucleotidyl-exotransferases, i.e. terminal nucleotidyl transferases (2.7.7.31)
2333/91005	. . . transferring one-carbon groups (2.1)	2333/91275	. . . . . RNA-directed RNA polymerases, e.g. replicases (2.7.7.48)
2333/91011	. . . . Methyltransferases (general) (2.1.1.)	2333/9128	. . . . . RNA-directed DNA polymerases, e.g. RT (2.7.7.49)
2333/91017	. . . . . with definite EC number (2.1.1.-)	2333/91285	. . . . . RNA uridyltransferases (2.7.7.52)
2333/91022	. . . . . Catecholmethyltransferases (2.1.1.6)	2333/9129	. . . . . Transferases for other substituted phosphate groups (2.7.8)
2333/91028	. . . . Hydroxymethyl-, formyl-transferases (2.1.2)	2333/91295	. . . . . with paired acceptors (2.7.9)
2333/91034	. . . . Carboxyl- and carbamoyl transferases (2.1.3)	2333/914	. . . Hydrolases (3)
2333/9104	. . . Aldehyde and ketone transferases (2.2)	2333/916	. . . acting on ester bonds (3.1), e.g. phosphatases (3.1.3), phospholipases C or phospholipases D (3.1.4)
2333/91045	. . . Acyltransferases (2.3)	2333/918	. . . . Carboxylic ester hydrolases (3.1.1)
2333/91051	. . . . Acyltransferases other than aminoacyltransferases (general) (2.3.1)	2333/92	. . . . Triglyceride splitting, e.g. by means of lipase
2333/91057	. . . . . with definite EC number (2.3.1.-)	2333/922	. . . . Ribonucleases (RNAses); Deoxyribonucleases (DNAses)
2333/91062	. . . . . Chloramphenicol-acetyltransferases (2.3.1.28)	2333/924	. . . acting on glycosyl compounds (3.2)
2333/91068	. . . . . Chalcone synthases (2.3.1.74)	2333/926	. . . . acting on alpha -1, 4-glucosidic bonds, e.g. hyaluronidase, invertase, amylase
2333/91074	. . . . Aminoacyltransferases (general) (2.3.2)	2333/928	. . . . acting on alpha -1, 4-glucosidic bonds, e.g. hyaluronidase, invertase, amylase
2333/9108	. . . . . with definite EC number (2.3.2.-)	2333/93	. . . . . Fungal source
2333/91085	. . . . . Transglutaminases; Factor XIIIq (2.3.2.13)	2333/932	. . . . . alpha-amylase from plant source
2333/91091	. . . Glycosyltransferases (2.4)	2333/934	. . . . . Glucoamylase
2333/91097	. . . . Hexosyltransferases (general) (2.4.1)	2333/936	. . . . acting on beta-1, 4 bonds between N-acetylmuramic acid and 2-acetyl-amino 2-deoxy-D-glucose, e.g. lysozyme
2333/91102	. . . . . with definite EC number (2.4.1.-)	2333/938	. . . . acting on beta-galactose-glycoside bonds, e.g. beta-galactosidase
2333/91108	. . . . . Levansucrases (2.4.1.10)	2333/94	. . . . acting on alpha-galactose-glycoside bonds, e.g. alpha-galactosidase
2333/91114	. . . . . Cellulose synthases (2.4.1.12)		
2333/9112	. . . . . Sucrose synthases (2.4.1.13)		
2333/91125	. . . . . Sucrose phosphate synthases (2.4.1.14)		
2333/91131	. . . . . Glucan branching enzymes (2.4.1.18)		
2333/91137	. . . . . Cyclomalto dextrin glucano transferases (2.4.1.19)		
2333/91142	. . . . Pentosyltransferases (2.4.2)		
2333/91148	. . . . transferring other glycosyl groups (2.4.99)		
2333/91154	. . . . transferring alkyl or aryl groups other than methyl groups (2.5)		
2333/9116	. . . . transferring alkyl or aryl groups other than methyl groups (2.5)		
2333/91165	. . . . general (2.5.1)		



2333/942	. . . .	acting on beta-1, 4-glucosidic bonds, e.g. cellulase
2333/944	. . . .	acting on alpha-1, 6-glucosidic bonds, e.g. isoamylase, pullulanase
2333/946	. . . .	Dextranase
2333/948	. . . .	acting on peptide bonds (3.4)
2333/95	. . . .	Proteinases, i.e. endopeptidases (3.4.21-3.4.99)
2333/9506	. . . .	derived from viruses
2333/9513	. . . .	derived from RNA viruses
2333/952	. . . .	derived from bacteria
2333/954	. . . .	bacteria being <i>Bacillus</i>
2333/956	. . . .	<i>Bacillus subtilis</i> or <i>Bacillus licheniformis</i>
2333/958	. . . .	derived from fungi
2333/96	. . . .	from yeast
2333/962	. . . .	from <i>Aspergillus</i>
2333/964	. . . .	derived from animal tissue
2333/96402	. . . .	from non-mammals
2333/96405	. . . .	in general
2333/96408	. . . .	with EC number
2333/96411	. . . .	Serine endopeptidases (3.4.21)
2333/96413	. . . .	Cysteine endopeptidases (3.4.22)
2333/96416	. . . .	Aspartic endopeptidases (3.4.23)
2333/96419	. . . .	Metalloendopeptidases (3.4.24)
2333/96422	. . . .	from snakes
2333/96425	. . . .	from mammals
2333/96427	. . . .	in general
2333/9643	. . . .	with EC number
2333/96433	. . . .	Serine endopeptidases (3.4.21)
2333/96436	. . . .	Granzymes
2333/96438	. . . .	Dibasic site splicing serine proteases, e.g. furin
2333/96441	. . . .	with definite EC number
2333/96444	. . . .	Factor X (3.4.21.6)
2333/96447	. . . .	Factor VII (3.4.21.21)
2333/9645	. . . .	Factor IX (3.4.21.22)
2333/96452	. . . .	Factor XI (3.4.21.27)
2333/96455	. . . .	Kallikrein (3.4.21.34; 3.4.21.35)
2333/96458	. . . .	Factor XII (3.4.21.38)
2333/96461	. . . .	Protein C (3.4.21.69)
2333/96463	. . . .	Blood coagulation factors not provided for in a preceding group or according to more than one of the proceeding groups
2333/96466	. . . .	Cysteine endopeptidases (3.4.22)
2333/96469	. . . .	Interleukin 1-beta convertase-like enzymes
2333/96472	. . . .	Aspartic endopeptidases (3.4.23)
2333/96475	. . . .	with definite EC number
2333/96477	. . . .	Pepsin (3.4.23.1; 3.4.23.2; 3.4.23.3)
2333/9648	. . . .	Chymosin, i.e. rennin (3.4.23.4)
2333/96483	. . . .	Renin (3.4.23.15)
2333/96486	. . . .	Metalloendopeptidases (3.4.24)
2333/96488	. . . .	Phosphoramidon sensitive endothelin converting enzymes
2333/96491	. . . .	with definite EC number
2333/96494	. . . .	Matrix metalloproteases, e.g. 3.4.24.7
2333/96497	. . . .	Enkephalinase (3.4.24.11)
2333/966	. . . .	Elastase
2333/968	. . . .	Plasmin, i.e. fibrinolysin
2333/972	. . . .	Plasminogen activators
2333/9723	. . . .	Urokinase
2333/9726	. . . .	Tissue plasminogen activator
2333/974	. . . .	Thrombin
2333/976	. . . .	Trypsin; Chymotrypsin
2333/978	. . . .	acting on carbon to nitrogen bonds other than peptide bonds (3.5)
2333/98	. . . .	acting on amide bonds in linear amides (3.5.1)
2333/982	. . . .	Asparaginase
2333/984	. . . .	Penicillin amidase
2333/986	. . . .	acting on amide bonds in cyclic amides (3.5.2), e.g. beta-lactamase (penicillinase, 3.5.2.6), creatinine amidohydrolase (creatininase, EC 3.5.2.10), N-methylhydantoinase (3.5.2.6)
2333/988	. . . .	Lyases (4.), e.g. aldolases, heparinase, enolases, fumarase
2333/99	. . . .	Isomerases (5.)
2333/992	. . . .	Glucose isomerase; Xylose isomerase; Glucose-6-phosphate isomerase
2333/994	. . . .	Pancreatin
<b>2400/00</b>		<b>Assays, e.g. immunoassays or enzyme assays, involving carbohydrates</b>
2400/02	. . . .	involving antibodies to sugar part of glycoproteins (lectins from plants <a href="#">G01N 2333/42</a> , lectins from mammals <a href="#">G01N 2333/4724</a> )
2400/10	. . . .	Polysaccharides, i.e. having more than five saccharide radicals attached to each other by glycosidic linkages; Derivatives thereof, e.g. ethers, esters
2400/12	. . . .	Homoglycans, i.e. polysaccharides having a main chain consisting of one single sugar
2400/14	. . . .	alpha-D-Glucans, i.e. having alpha 1,n (n=3,4,6) linkages between saccharide units, e.g. pullulan
2400/16	. . . .	Starch, amylose, amylopectin
2400/18	. . . .	Cyclodextrin
2400/22	. . . .	Dextran
2400/24	. . . .	beta-D-Glucans, i.e. having beta 1,n (n=3,4,6) linkages between saccharide units, e.g. xanthan
2400/26	. . . .	Cellulose
2400/28	. . . .	Chitin, chitosan
2400/32	. . . .	Galactans, e.g. agar, agarose, agaropectin, carrageenan
2400/34	. . . .	alpha-D-Galacturonans, e.g. pectin
2400/36	. . . .	beta-D-Fructofuranans, e.g. levan, insulin
2400/38	. . . .	Heteroglycans, i.e. polysaccharides having more than one sugar residue in the main chain in either alternating or less regular sequence, e.g. gluco- or galactomannans, e.g. Konjac gum, Locust bean gum, Guar gum ( <a href="#">proteoglycans G01N 2333/4722</a> )
2400/40	. . . .	Glycosaminoglycans, i.e. GAG or mucopolysaccharides, e.g. chondroitin sulfate, dermatan sulfate, hyaluronic acid, heparin, heparan sulfate, and related sulfated polysaccharides
2400/44	. . . .	Guluronomannuronans, e.g. alginic acid
2400/46	. . . .	Pectin
2400/48	. . . .	Reserve carbohydrates, e.g. glycogen

- 2400/50 . . Lipopolysaccharides; LPS
- 2405/00 Assays, e.g. immunoassays or enzyme assays, involving lipids (lipopolysaccharides [G01N 2400/50](#))**
- 2405/02 . Triacylglycerols
- 2405/04 . Phospholipids, i.e. phosphoglycerides
- 2405/06 . . Glycophospholipids, e.g. phosphatidyl inositol
- 2405/08 . Sphingolipids
- 2405/10 . . Glycosphingolipids, e.g. cerebrosides, gangliosides
- 2407/00 Assays, e.g. immunoassays or enzyme assays, involving terpenes**
- 2407/02 . Taxol; Taxanes
- 2410/00 Assays, e.g. immunoassays or enzyme assays, involving peptides of less than 20 amino acids**
- 2410/02 . Angiotensins; Related peptides
- 2410/04 . Oxytocins; Vasopressins; Related peptides
- 2410/06 . Kallidins; Bradykinins; Related peptides
- 2410/08 . Cyclosporins and related peptides
- 2410/10 . Valinomycins and derivatives thereof
- 2415/00 Assays, e.g. immunoassays or enzyme assays, involving penicillins or cephalosporins**
- 2430/00 Assays, e.g. immunoassays or enzyme assays, involving synthetic organic compounds as analytes**
- 2430/10 . Insecticides
- 2430/12 . . Pyrethroids
- 2430/20 . Herbicides, e.g. DDT
- 2430/30 . Polychlorinated biphenyls (PCBs)
- 2430/40 . Dioxins
- 2430/50 . Polyaromatic hydrocarbons (PAHs)
- 2430/60 . Synthetic polymers other than synthetic polypeptides as analytes
- 2440/00 Post-translational modifications [PTMs] in chemical analysis of biological material**
- 2440/10 . acylation, e.g. acetylation, formylation, lipoylation, myristoylation, palmitoylation
- 2440/12 . alkylation, e.g. methylation, (iso-)prenylation, farnesylation
- 2440/14 . phosphorylation
- 2440/16 . (de-)amidation
- 2440/18 . citrullination
- 2440/20 . formation of disulphide bridges
- 2440/22 . iodination
- 2440/24 . hydroxylation
- 2440/26 . nitrosylation
- 2440/28 . PEGylation
- 2440/30 . sulphation
- 2440/32 . biotinylation
- 2440/34 . addition of amino acid(s), e.g. arginylation, (poly-)glutamylolation, (poly-)glycylation
- 2440/36 . addition of addition of other proteins or peptides, e.g. SUMOylation, ubiquitination
- 2440/38 . addition of carbohydrates, e.g. glycosylation, glycation
- 2440/40 . addition of nucleotides or derivatives, e.g. adenylation, flavin attachment
- 2446/00 Magnetic particle immunoreagent carriers**
- 2446/10 . the magnetic material being used to coat a pre-existing polymer particle but not being present in the particle core
- 2446/20 . the magnetic material being present in the particle core
- 2446/30 . the magnetic material being dispersed in the polymer composition before their conversion into particulate form
- 2446/40 . the magnetic material being dispersed in the monomer composition prior to polymerisation
- 2446/60 . the magnetic material being dispersed in a medium other than the main solvent prior to incorporation into the polymer particle
- 2446/62 . . Magnetic material dispersed in water drop
- 2446/64 . . Magnetic material dispersed in oil drop
- 2446/66 . . Magnetic material dispersed in surfactant
- 2446/80 . characterised by the agent used to coat the magnetic particles, e.g. lipids
- 2446/84 . . Polymer coating, e.g. gelatin
- 2446/86 . . the coating being pre-functionalised for attaching immunoreagents, e.g. aminodextran
- 2446/90 . . characterised by small molecule linker used to couple immunoreagents to magnetic particles
- 2458/00 Labels used in chemical analysis of biological material**
- 2458/10 . Oligonucleotides as tagging agents for labelling antibodies
- 2458/15 . Non-radioactive isotope labels, e.g. for detection by mass spectrometry
- 2458/20 . Labels for detection by gas chromatography, e.g. haloaryl systems
- 2458/30 . Electrochemically active labels
- 2458/40 . Rare earth chelates
- 2469/00 Immunoassays for the detection of microorganisms**
- 2469/10 . Detection of antigens from microorganism in sample from host
- 2469/20 . Detection of antibodies in sample from host which are directed against antigens from microorganisms
- 2470/00 Immunochemical assays or immunoassays characterised by the reaction format or reaction type**
- 2470/04 . Sandwich assay format
- 2470/06 . . Second binding partner specifically binding complex of analyte with first binding partner
- 2470/10 . Competitive assay format
- 2470/12 . . Displacement or release-type competition
- 2474/00 Immunochemical assays or immunoassays characterised by detection mode or means of detection**
- 2474/10 . Immunoblots, e.g. Western blot or Dot blot
- 2474/20 . Immunohistochemistry assay
- 2496/00 Reference solutions for assays of biological material**
- 2496/05 . containing blood cells or plasma
- 2496/10 . containing particles to mimic blood cells
- 2496/15 . containing dyes to mimic optical absorption of, e.g. hemoglobin
- 2496/25 . containing added polymers to stabilise biological material against degradation or maintain viscosity or density, e.g. gelatin, polyacrylamides, polyvinyl alcohol ([casein \[G01N 2333/4731\]\(#\), \[albumins \\[G01N 2333/76\\]\\(#\\), \\[polysaccharides \\\[G01N 2400/10\\\]\\\(#\\\)\\]\\(#\\)\]\(#\)](#))
- 2496/30 . . Polyethylene glycol, e.g. PEG
- 2496/35 . . Polyvinylpyrrolidone, e.g. PVP

- 2496/45 . containing protease inhibitors, e.g. sulfonylfluorides, chloromethylketones, organophosphates ([peptide-based protease inhibitors G01N 2333/81](#))
- 2496/70 . Blood gas control solutions containing dissolved oxygen, bicarbonate and the like
- 2496/80 . Multi-analyte reference solutions containing cholesterol, glucose and the like
- 2500/00 Screening for compounds of potential therapeutic value**
- 2500/02 . Screening involving studying the effect of compounds C on the interaction between interacting molecules A and B (e.g. A = enzyme and B = substrate for A, or A = receptor and B = ligand for the receptor)
- 2500/04 . Screening involving studying the effect of compounds C directly on molecule A (e.g. C are potential ligands for a receptor A, or potential substrates for an enzyme A)
- 2500/10 . involving cells
- 2500/20 . cell-free systems
- 2510/00 Detection of programmed cell death, i.e. apoptosis**
- 2520/00 Use of whole organisms as detectors of pollution**
- 2550/00 Electrophoretic profiling, e.g. for proteome analysis**
- 2560/00 Chemical aspects of mass spectrometric analysis of biological material**
- NOTES**
1. Analysis of proteins, peptides or amino acids by mass spectrometry is classified in [G01N 33/6848](#) and [G01N 33/6851](#).
  2. Analysis of nucleic acids by mass spectrometry is classified in [C12Q 1/6872](#), [C12Q 2563/167](#) and [C12Q 2565/627](#).
- 2570/00 Omics, e.g. proteomics, glycomics or lipidomics; Methods of analysis focusing on the entire complement of classes of biological molecules or subsets thereof, i.e. focusing on proteomes, glycomes or lipidomes**
- 2600/00 Assays involving molecular imprinted polymers/polymers created around a molecular template**
- 2610/00 Assays involving self-assembled monolayers [SAMs]**
- 2650/00 Assays involving polymers whose constituent monomers bore biological functional groups before polymerization, i.e. vinyl, acryl derivatives of amino acids, sugars**
- 2800/00 Detection or diagnosis of diseases**
- NOTES**
1. The indexing codes [G01N 2800/02](#) - [G01N 2800/44](#) are based on The Merck Manual of Diagnosis and Therapy (17th. Edition, Mark Beers and Robert Berkow).
  2. For diseases caused by microorganism where the microorganism is detected, which subject matter is classified in [G01N 33/569](#) and subgroups, [G01N 33/571](#) or [G01N 33/576](#), the present indexing scheme is not used.
3. For cancers, which subject matter is classified in [G01N 33/574](#) and subgroups, the present indexing scheme is not used.
  4. When indexing in the following scheme, the organ takes precedence, e.g. inflammation of the skin is indexed with dermatological disorders and not with immunology or allergic disorders, asthma with pulmonary disorders and not with immunology or allergic disorders. Exception is made for thrombosis which is indexed with haematological disorders.
- 2800/02 . Nutritional disorders
- 2800/04 . Endocrine or metabolic disorders
- 2800/042 . . Disorders of carbohydrate metabolism, e.g. diabetes, glucose metabolism
- 2800/044 . . Hyperlipemia or hypolipemia, e.g. dyslipidaemia, obesity
- 2800/046 . . Thyroid disorders
- 2800/048 . . Pituitary or hypothalamic - pituitary relationships, e.g. vasopressin or ADH related
- 2800/06 . Gastro-intestinal diseases
- 2800/062 . . Gastritis or peptic ulcer disease
- 2800/065 . . Bowel diseases, e.g. Crohn, ulcerative colitis, IBS
- 2800/067 . . Pancreatitis or colitis
- 2800/08 . Hepato-biliary disorders other than hepatitis
- 2800/085 . . Liver diseases, e.g. portal hypertension, fibrosis, cirrhosis, bilirubin
- 2800/10 . Musculoskeletal or connective tissue disorders
- 2800/101 . . Diffuse connective tissue disease, e.g. Sjögren, Wegener's granulomatosis
- 2800/102 . . . Arthritis; Rheumatoid arthritis, i.e. inflammation of peripheral joints
- 2800/104 . . . Lupus erythematosus [SLE]
- 2800/105 . . Osteoarthritis, e.g. cartilage alteration, hypertrophy of bone
- 2800/107 . . Crystal induced conditions; Gout
- 2800/108 . . Osteoporosis
- 2800/12 . Pulmonary diseases
- 2800/122 . . Chronic or obstructive airway disorders, e.g. asthma COPD
- 2800/125 . . Adult respiratory distress syndrome
- 2800/127 . . Bronchitis
- 2800/14 . Disorders of ear, nose or throat
- 2800/16 . Ophthalmology
- 2800/162 . . Conjunctival disorders, e.g. conjunctivitis
- 2800/164 . . Retinal disorders, e.g. retinopathy
- 2800/166 . . Cataract
- 2800/168 . . Glaucoma
- 2800/18 . Dental and oral disorders
- 2800/20 . Dermatological disorders
- 2800/202 . . Dermatitis
- 2800/205 . . Scaling palmar diseases, e.g. psoriasis, pityriasis
- 2800/207 . . Pigmentation disorders
- 2800/22 . Haematology
- 2800/222 . . Platelet disorders
- 2800/224 . . Haemostasis or coagulation
- 2800/226 . . Thrombotic disorders, i.e. thrombo-embolism irrespective of location/organ involved, e.g. renal vein thrombosis, venous thrombosis
- 2800/228 . . Disorders of the spleen, e.g. splenic rupture, splenomegaly

- 2800/24 . Immunology or allergic disorders ([SLE](#) [G01N 2800/104](#))
- 2800/245 . . Transplantation related diseases, e.g. graft versus host disease
- 2800/26 . Infectious diseases, e.g. generalised sepsis
- NOTE**
- Indexing code [G01N 2800/26](#) is not used for documents already classified in one or more of groups [G01N 33/569](#) and subgroups, [G01N 33/571](#) or [G01N 33/576](#) and subgroups
- 2800/28 . Neurological disorders
- 2800/2807 . . Headache; Migraine
- 2800/2814 . . Dementia; Cognitive disorders
- 2800/2821 . . . Alzheimer
- 2800/2828 . . . Prion diseases
- 2800/2835 . . Movement disorders, e.g. Parkinson, Huntington, Tourette
- 2800/2842 . . Pain, e.g. neuropathic pain, psychogenic pain
- 2800/285 . . Demyelinating diseases; Multiple sclerosis
- 2800/2857 . . Seizure disorders; Epilepsy
- 2800/2864 . . Sleep disorders
- 2800/2871 . . Cerebrovascular disorders, e.g. stroke, cerebral infarct, cerebral haemorrhage, transient ischemic event
- 2800/2878 . . Muscular dystrophy
- 2800/2885 . . . Duchenne dystrophy
- 2800/2892 . . . Myotonic dystrophy
- 2800/30 . Psychoses; Psychiatry
- 2800/301 . . Anxiety or phobic disorders
- 2800/302 . . Schizophrenia
- 2800/303 . . Eating disorders, e.g. anorexia, bulimia
- 2800/304 . . Mood disorders, e.g. bipolar, depression
- 2800/305 . . Attention deficit disorder; Hyperactivity
- 2800/306 . . Chronic fatigue syndrome
- 2800/307 . . Drug dependency, e.g. alcoholism
- 2800/308 . . Psychosexual disorders, e.g. sexual arousal disorder
- 2800/32 . Cardiovascular disorders
- 2800/321 . . Arterial hypertension
- 2800/322 . . Orthostatic hypertension or syncope
- 2800/323 . . Arteriosclerosis, Stenosis
- 2800/324 . . Coronary artery diseases, e.g. angina pectoris, myocardial infarction
- 2800/325 . . Heart failure or cardiac arrest, e.g. cardiomyopathy, congestive heart failure
- 2800/326 . . Arrhythmias, e.g. ventricular fibrillation, tachycardia, atrioventricular block, torsade de pointes
- 2800/327 . . Endocarditis
- 2800/328 . . Vasculitis, i.e. inflammation of blood vessels
- 2800/329 . . Diseases of the aorta or its branches, e.g. aneurysms, aortic dissection
- 2800/34 . Genitourinary disorders
- 2800/341 . . Urinary incontinence
- 2800/342 . . Prostate diseases, e.g. BPH, prostatitis
- 2800/344 . . Disorders of the penis and the scrotum and erectile dysfunction
- 2800/345 . . Urinary calculi
- 2800/347 . . Renal failures; Glomerular diseases; Tubulointerstitial diseases, e.g. nephritic syndrome, glomerulonephritis; Renovascular diseases, e.g. renal artery occlusion, nephropathy
- 2800/348 . . Urinary tract infections
- 2800/36 . Gynecology or obstetrics
- 2800/361 . . Menstrual abnormalities or abnormal uterine bleeding, e.g. dysmenorrhea
- 2800/362 . . Menopause
- 2800/364 . . Endometriosis, i.e. non-malignant disorder in which functioning endometrial tissue is present outside the uterine cavity
- 2800/365 . . Breast disorders, e.g. mastalgia, mastitis, Paget's disease
- 2800/367 . . Infertility, e.g. sperm disorder, ovulatory dysfunction
- 2800/368 . . Pregnancy complicated by disease or abnormalities of pregnancy, e.g. preeclampsia, preterm labour
- 2800/38 . Pediatrics
- 2800/382 . . Cystic fibrosis
- 2800/385 . . Congenital anomalies
- 2800/387 . . . Down syndrome; Trisomy 18; Trisomy 13
- 2800/40 . Disorders due to exposure to physical agents, e.g. heat disorders, motion sickness, radiation injuries, altitude sickness, decompression illness
- 2800/42 . Poisoning, e.g. from bites or stings
- 2800/44 . Multiple drug resistance
- 2800/50 . Determining the risk of developing a disease
- 2800/52 . Predicting or monitoring the response to treatment, e.g. for selection of therapy based on assay results in personalised medicine; Prognosis
- 2800/54 . Determining the risk of relapse
- 2800/56 . Staging of a disease; Further complications associated with the disease
- 2800/60 . Complex ways of combining multiple protein biomarkers for diagnosis
- 2800/70 . Mechanisms involved in disease identification ([G01N 2800/02](#) - [G01N 2800/44](#) take precedence)
- 2800/7004 . . Stress
- 2800/7009 . . . Oxidative stress
- 2800/7014 . . (Neo)vascularisation - Angiogenesis
- 2800/7019 . . Ischaemia
- 2800/7023 . . (Hyper)proliferation
- 2800/7028 . . . Cancer
- 2800/7033 . . Non-proliferative mechanisms
- 2800/7038 . . Hypoxia
- 2800/7042 . . Aging, e.g. cellular aging
- 2800/7047 . . Fibrils-Filaments-Plaques formation
- 2800/7052 . . Fibrosis
- 2800/7057 . . (Intracellular) signaling and trafficking pathways
- 2800/7061 . . . Endoplasmic reticulum to Golgi trafficking
- 2800/7066 . . . Metabolic pathways
- 2800/7071 . . . . Carbohydrate metabolism, e.g. glycolysis, gluconeogenesis
- 2800/7076 . . . . Amino acid metabolism
- 2800/708 . . . . Nitrogen metabolism, e.g. urea cycle
- 2800/7085 . . . . Lipogenesis or lipolysis, e.g. fatty acid metabolism
- 2800/709 . . Toxin induced
- 2800/7095 . . Inflammation