EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1553

DATE: MAY 1, 2024

PROJECT RP10479

The following classification changes will be effected by this Notice of Changes:

Action	**Subclass**	**Group(s)**
SCHEME:		
Symbols Deleted:	G01N	33/381, 33/385
	G01N	2033/0003, 2033/0019, 2033/0068, 2033/0072, 2033/0077, 2033/0078, 2033/008, 2033/0081, 2033/0083, 2033/0085, 2033/0086, 2033/0088, 2033/009, 2033/0091, 2033/0093, 2033/0095, 2033/0096, 2033/105, 2033/184, 2033/1873, 2033/243, 2033/245, 2033/248, 2033/4975, 2033/4977
Symbols New:	G01N	33/0003, 33/0019, 33/0068, 33/0072, 33/0077, 33/0078, 33/008, 33/0081, 33/0083, 33/0085, 33/0086, 33/009, 33/0091, 33/0093, 33/0095, 33/0096, 33/105, 33/184, 33/1873, 33/243, 33/245, 33/248, 33/389, 33/39, 33/4975, 33/4977
Titles Changed:	G01N	33/0004, 33/0009, 33/0011, 33/0013, 33/0014, 33/0016, 33/0026, 33/0029, 33/0031, 33/0036, 33/0037, 33/0039, 33/004, 33/0042, 33/0044, 33/0045, 33/0047, 33/0049, 33/005, 33/0052, 33/0054, 33/0055, 33/0057, 33/0059, 33/006, 33/0062, 33/0063, 33/007, 33/0075, 33/12, 33/15, 33/1806, 33/1813, 33/182, 33/1826, 33/1833, 33/1853, 33/1866, 33/188, 33/22, 33/227, 33/241, 33/246, 33/26, 33/28, 33/2805, 33/2817, 33/2823, 33/2829, 33/2835, 33/2841, 33/2847, 33/2852, 33/2858, 33/2864, 33/2882, 33/32, 33/343, 33/346, 33/362, 33/365, 33/367, 33/38, 33/383, 33/44, 33/442, 33/4905
DEFINITIONS:		
Definitions New:	G01N	33/0001, 33/0004, 33/0009, 33/0011, 33/0026, 33/0031, 33/0036, 33/0057, 33/0062, 33/0063, 33/007, 33/0075, 33/0098, 33/15, 33/18, 33/1813, 33/182, 33/1833, 33/1866, 33/188, 33/22, 33/227, 33/24, 33/241, 33/246, 33/28, 33/2805, 33/2817, 33/2823, 33/2847, 33/2882, 33/32, 33/365, 33/367, 33/447, 33/497
Definitions Modified:	G01N	33/00, 37/00, 37/005

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The following subclasses/groups are also impacted by this Notice of Changes (indicate subclasses/groups outside of the project scope, such as those listed in the CRL): A63C, D06H

This Notice of Changes includes the following *[Check the ones included]:*

1. CLASSIFICATION SCHEME CHANGES
   - ☒ A. New, Modified or Deleted Group(s)
   - ☐ B. New, Modified or Deleted Warning(s)
   - ☐ C. New, Modified or Deleted Note(s)
   - ☐ D. New, Modified or Deleted Guidance Heading(s)
2. DEFINITIONS
   - ☒ A. New or Modified Definitions (Full definition template)
   - ☐ B. Modified or Deleted Definitions (Definitions Quick Fix)
3. ☒ REVISION CONCORDANCE LIST (RCL)
4. ☒ CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5. ☒ CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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PROJECT RP10479

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS 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)

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
U	G01N33/00	0	Investigating or analysing materials by specific methods not covered by groups G01N1/00 - G01N31/00	
U	G01N33/0001	1	{by organoleptic means}	
D	G01N2033/0003	1	{Composite materials}	<administrative transfer to G01N33/0003 INV>
N	G01N33/0003	1	{Composite materials}	
M	G01N33/0004	1	{Gaseous mixtures, e.g. polluted air}	
M	G01N33/0009	2	{General constructional details of gas analysers, e.g. portable test equipment (devices for withdrawing samples in the gaseous state G01N1/22)}	
M	G01N33/0011	3	{Sample conditioning (preparing specimens for investigation G01N1/28)}	
M	G01N33/0013	4	{by a chemical reaction (a chemical reaction taking place or a gas being eliminated in one or more analysing channels G01N33/0024)}	
M	G01N33/0014	4	{by eliminating a gas (by a chemical reaction G01N33/0013; a chemical reaction taking place or a gas being eliminated in one or more analysing channels G01N33/0024)}	
M	G01N33/0016	4	{by regulating a physical variable, e.g. pressure or temperature}	
U	G01N33/0018	4	{by diluting a gas}	
D	G01N2033/0019	4	{by preconcentration}	<administrative transfer to G01N33/0019 INV>
N	G01N33/0019	4	{by preconcentration}	
M	G01N33/0026	3	{using an alternating circulation of another gas}	
M	G01N33/0029	4	{Cleaning of the detector}	
M	G01N33/0031	4	{comprising two or more sensors, e.g. a sensor array}	

M	G01N33/0036	4	{specially adapted to detect a particular component (physical analysis of gaseous biological material G01N33/497)}	
M	G01N33/0037	5	{NO_x}	
M	G01N33/0039	5	{O_3}	
M	G01N33/004	5	{CO or CO_2}	
M	G01N33/0042	5	{SO_2 or SO_3}	
M	G01N33/0044	5	{Sulphides, e.g. H_2S}	
M	G01N33/0045	5	{Hg}	
M	G01N33/0047	5	{Organic compounds}	
M	G01N33/0049	6	{Halogenated organic compounds}	
M	G01N33/005	5	{H_2}	
M	G01N33/0052	5	{Gaseous halogens}	
M	G01N33/0054	5	{Ammonia}	
M	G01N33/0055	5	{Radionuclides}	
M	G01N33/0057	5	{Warfare agents or explosives}	
M	G01N33/0059	5	{Avoiding interference of a gas with the gas to be measured}	
M	G01N33/006	6	{Avoiding interference of water vapour with the gas to be measured}	
M	G01N33/0062	3	{concerning the measuring method or the display, e.g. intermittent measurement or digital display}	
M	G01N33/0063	4	{using a threshold to release an alarm or displaying means}	
U	G01N33/0067	4	{by measuring the rate of variation of the concentration}	
D	G01N2033/0068	4	{using a computer specifically programmed}	<administrative transfer to G01N33/0068 INV>
N	G01N33/0068	4	{using a computer specifically programmed}	
M	G01N33/007	3	{Arrangements to check the analyser (calibrating gas analysers G01N33/0006)}	
D	G01N2033/0072	4	{by generating a test gas}	<administrative transfer to G01N33/0072 INV>
N	G01N33/0072	4	{by generating a test gas}	
M	G01N33/0075	4	{for multiple spatially distributed sensors, e.g. for environmental monitoring}	
D	G01N2033/0077	1	{testing material properties on individual granules or tablets}	<administrative transfer to G01N33/0077 INV>
N	G01N33/0077	1	{Testing material properties on individual granules or tablets}	

D	G01N2033/0078	1	{testing material properties on manufactured objects}	<administrative transfer to G01N33/0078 INV>
N	G01N33/0078	1	{Testing material properties on manufactured objects}	
D	G01N2033/008	2	{sport articles (balls, skis, rackets)}	<administrative transfer to G01N33/008 INV>
N	G01N33/008	2	{Sport articles, e.g. balls, skis or rackets}	
D	G01N2033/0081	2	{containers; packages; bottles}	<administrative transfer to G01N33/0081 INV>
N	G01N33/0081	2	{Containers; Packages; Bottles}	
D	G01N2033/0083	2	{vehicle parts}	<administrative transfer to G01N33/0083 INV>
N	G01N33/0083	2	{Vehicle parts}	
D	G01N2033/0085	3	{wheels}	<administrative transfer to G01N33/0085 INV>
N	G01N33/0085	3	{Wheels}	
D	G01N2033/0086	2	{clothes; hosiery}	<administrative transfer to G01N33/0086 INV>
N	G01N33/0086	2	{Clothes; Hosiery}	
D	G01N2033/0088	2	{other articles}	<administrative transfer to G01N33/0078 INV>
D	G01N2033/009	3	{seals}	<administrative transfer to G01N33/009 INV>
N	G01N33/009	2	{Seals}	
D	G01N2033/0091	1	{Powders}	<administrative transfer to G01N33/0091 INV>
N	G01N33/0091	1	{Powders}	
D	G01N2033/0093	1	{radioactive materials}	<administrative transfer to G01N33/0093 INV>
N	G01N33/0093	1	{Radioactive materials}	
D	G01N2033/0095	1	{Semiconductive materials}	<administrative transfer to G01N33/0095 INV>
N	G01N33/0095	1	{Semiconductive materials}	
D	G01N2033/0096	1	{testing material properties on thin layers or coatings}	<administrative transfer to G01N33/0096 INV>

N	G01N33/0096	1	{Testing material properties on thin layers or coatings}	
U	G01N33/10	2	Starch-containing substances, e.g. dough	
D	G01N2033/105	3	{Pasta}	<administrative transfer to G01N33/105 INV>
N	G01N33/105	3	{Pasta}	
M	G01N33/12	2	Meat; Fish	
M	G01N33/15	1	Medicinal preparations {; Physical properties thereof, e.g. dissolubility}	
U	G01N33/18	1	Water	
M	G01N33/1806	2	{Biological oxygen demand [BOD] or chemical oxygen demand [COD]}	
M	G01N33/1813	2	{Specific cations in water, e.g. heavy metals}	
M	G01N33/182	2	{Specific anions in water}	
M	G01N33/1826	2	{Organic contamination in water}	
M	G01N33/1833	3	{Oil in water}	
D	G01N2033/184	3	{herbicides, pesticides, fungicides, insecticides, or the like}	<administrative transfer to G01N33/184 INV>
N	G01N33/184	3	{Herbicides, pesticides, fungicides, insecticides or the like}	
M	G01N33/1853	2	{Hardness of water}	
M	G01N33/1866	3	{using microorganisms}	
D	G01N2033/1873	2	{ice or snow}	<administrative transfer to G01N33/1873 INV>
N	G01N33/1873	2	{Ice or snow}	
M	G01N33/188	2	{Determining the state of nitrification}	
M	G01N33/22	1	Fuels; Explosives	
M	G01N33/227	2	{Explosives, e.g. combustive properties thereof}	
U	G01N33/24	1	Earth materials (G01N33/42 takes precedence)	
M	G01N33/241	2	{for hydrocarbon content}	
D	G01N2033/243	2	{for determining biological parameters concerning composting, biodegradability or bioavailability}	<administrative transfer to G01N33/243 INV>
N	G01N33/243	2	{for determining biological parameters concerning composting, biodegradability or bioavailability}	
D	G01N2033/245	2	{for agricultural purposes}	<administrative transfer to G01N33/245 INV>
N	G01N33/245	2	{for agricultural purposes}	
M	G01N33/246	2	{for water content}	

D	G01N2033/248	2	{related to manure as a biological product, i.e. excluding artificial fertilizers}	<administrative transfer to G01N33/248 INV>
N	G01N33/248	2	{related to manure as a biological product}	
M	G01N33/26	1	Oils; Viscous liquids; Paints; Inks (G01N33/22 takes precedence)	
M	G01N33/28	2	Oils {, i.e. hydrocarbon liquids} (edible oils or edible fats G01N33/03)	
M	G01N33/2805	3	{investigating the resistance to heat or oxidation}	
M	G01N33/2817	3	{using a test engine}	
M	G01N33/2823	3	{Raw oil, drilling fluid or polyphasic mixtures}	
M	G01N33/2829	3	{Mixtures of fuels}	
M	G01N33/2835	3	{Specific substances contained in the oils or fuels}	
M	G01N33/2841	4	{Gas in oils, e.g. hydrogen in insulating oils}	
M	G01N33/2847	4	{Water in oils}	
M	G01N33/2852	4	{Alcohol in fuels}	
M	G01N33/2858	4	{Metal particles}	
M	G01N33/2864	4	{Lead content}	
M	G01N33/2882	4	{Markers}	
M	G01N33/32	2	Paints; Inks	
U	G01N33/34	1	Paper	
M	G01N33/343	2	{Paper pulp}	
M	G01N33/346	2	{Paper sheets}	
M	G01N33/362	2	{Material before processing, e.g. bulk cotton or wool}	
M	G01N33/365	2	{Filiform textiles, e.g. yarns}	
M	G01N33/367	2	{Fabric or woven textiles}	
M	G01N33/38	1	Concrete; Lime; Mortar; Gypsum; Bricks; Ceramics; Glass	
D	G01N33/381	2	{precious stones; pearls}	<administrative transfer to G01N33/389 INV>
M	G01N33/383	2	{Concrete or cement}	
D	G01N33/385	2	{Crystals}	<administrative transfer to G01N33/39 INV>
U	G01N33/388	2	{Ceramics}	
N	G01N33/389	1	{Precious stones; Pearls}	
N	G01N33/39	1	{Crystals}	
M	G01N33/44	1	Resins; Plastics; Rubber; Leather	
M	G01N33/442	2	{Resins; Plastics}	

M	G01N33/4905	5	{Determining clotting time of blood (by chemical methods G01N33/86, C12Q1/56)}	
U	G01N33/497	3	of gaseous biological material, e.g. breath	
U	G01N33/4972	4	{Determining alcohol content (for vehicle safety devices B60K28/06)}	
D	G01N2033/4975	4	{other than oxygen, carbon dioxide or alcohol, e.g. organic vapours}	<administrative transfer to G01N33/4975 INV>
N	G01N33/4975	4	{other than oxygen, carbon dioxide or alcohol, e.g. organic vapours}	
D	G01N2033/4977	4	{metabolic gass from microbes, cell cultures, plant tissues and the like}	<administrative transfer to G01N33/4977 INV>
N	G01N33/4977	4	{Metabolic gas from microbes, cell cultures or plant tissues}	

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; T = existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required "anchor" symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- "Transferred to" column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the "Transferred to" column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: "<administrative transfer to XX>", "<administrative transfer to XX and YY simultaneously>", or "<administrative transfer to XX, YY, ...and ZZ simultaneously>" when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be "additional information".
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations "ADD" or "INV": <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or <administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the "D" entries of 2000-series or Y-series groups may not require a destination ("Transferred to") symbol, however it is required to specify "<no transfer>" in the "Transferred to" column for such cases.
- For finalization projects, the deleted "F" symbols should have <no transfer> in the "Transferred to" column.
- For more details about the types of scheme change, see CPC Guide.

2. A. DEFINITIONS (new)

G01N 33/0001

Definition statement

This place covers:

Sensory analysis or sensory evaluation, i.e. analysis using the sense organs. An example is using olfactory systems for smell testing.

NOTE: Analysis that is merely intended to mimic sensory evaluation but that does not actually involve the sense organs, e.g. artificial “electronic nose” systems, is not regarded as organoleptic.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Detecting, measuring or recording for evaluating the sensory system	A61B 5/4005

G01N 33/0004

Definition statement

This place covers:

Investigating or analysing gaseous media, insofar as gaseous media being the material object of the investigation or analysis is of major importance.

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Testing of internal-combustion engines, by monitoring exhaust-gases	G01M 15/102

Informative references

Attention is drawn to the following places, which may be of interest for search:

Condensation of vapours; Recovering volatile solvents by condensation for separation	B01D 5/00
Sublimation for separation	B01D 7/00
Cold traps, cold baffles for separation	B01D 8/00
Separation of gases or vapours; Recovering vapours of volatile solvents from gases chemical or biological purification of waste gases	B01D 53/00
Laboratory gas handling apparatus	B01L 5/00
Exhaust apparatus having means for purifying exhaust, e.g. by regenerating the soot filter	F01N 3/00
Electrical control of exhaust gas treating apparatus, including detection of clogging to prepare filter regeneration	F01N 9/00
Monitoring or diagnostics devices for exhaust gas treatment	F01N 11/00
Devices for withdrawing samples in the gaseous state	G01N 1/22
Analysing materials by measuring the pressure or volume of a gas	G01N 7/00
Analysing gases using infrared light	G01N 21/3504
Optical transmissivity non-dispersive gas analysers	G01N 21/61
Analysing materials by using cells with anode, cathode and cell electrolyte on the same side of a permeable membrane which separates them from the sample fluid	G01N 27/404
Analysing materials using cells and probes with solid electrolytes	G01N 27/407
Systems measuring voltages or currents with a combination of oxygen pumping cells and oxygen concentration cells	G01N 27/419

Investigating the presence of specific gases using chemical indicators	G01N 31/223
Physical analysis of gaseous biological material, e.g. breath	G01N 33/497
Chemical analysis of biological material involving alcohol, e.g. ethanol in breath	G01N 33/98

Special rules of classification

Multiple classification is used when it is necessary to classify different inventive aspects of subject matter or when the subject matter contains additional information that is desirable to be classified. Unnecessary multiple classification is to be avoided. For each classifiable aspect, choose the single most appropriate symbol.

Example: Boundary with G01N 33/497

Documents relating to physical analysis of gaseous biological material (e.g. breath) are covered in G01N 33/497. Thus, G01N 33/0004 would not be allocated simply to designate the material being tested, since the more descriptive symbol G01N 33/497 can be used for this aspect. Exceptions would be possible in the case of multiple embodiments, where one of the embodiments is a non-biological gas not covered by G01N 33/497.

Classification in both G01N 33/497 and G01N 33/0004 subgroups G01N 33/0006 – G01N 33/0034 or G01N 33/0063 – G01N 33/0075 can be made in order to cover different inventive aspects insofar as constructional details etc. are not provided for in G01N 33/497. Thus, a portable gas analyser specially adapted for physical analysis of breath samples may be classified in both G01N 33/497 and in G01N 33/0009, the former symbol designating the material being tested and the latter designating the constructional detail of a portable analyser.

G01N 33/0009

Definition statement

This place covers:

General constructional details of gas analysers relevant to the analysis.

Relationships with other classification places

For constructional details relating to the analysis, e.g. to sensor components, then classification can also be made in G01N 33/0009 or its subgroups. Where the constructional details relate only to obtaining or withdrawing of the gaseous sample, classification is made in G01N 1/22.

References

Limiting references

This place does not cover:

Devices for withdrawing samples in the gaseous state	G01N 1/22

G01N 33/0011

Definition statement

This place covers:

Sample conditioning that takes place as part of the analysis process, e.g. in-line sample conditioning which occurs within the gas analyser. An example would be a gas analyser that specifically reacts with ambient gas to release a chemical that is then detected.

Relationships with other classification places

G01N 33/0011 covers sample conditioning that takes place as part of the analysis process (typically in-line within the analyser), whilst preliminary manipulation of samples in preparation for analysis is covered in G01N 1/28.

References

Limiting references

This place does not cover:

Preparing specimens for investigation	G01N 1/28

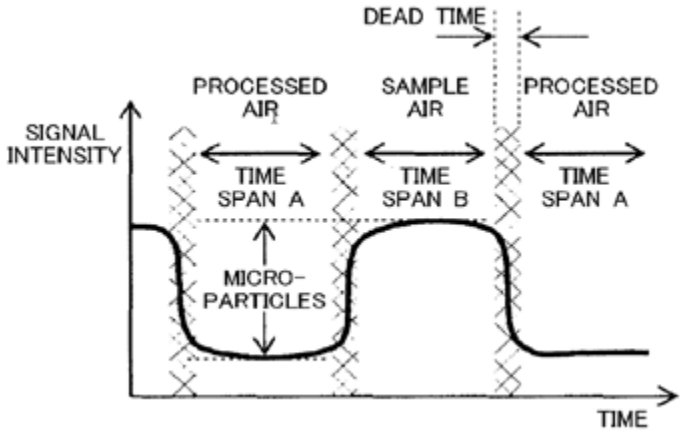
G01N 33/0026

Definition statement

This place covers:

Use of an alternating circulation of another gas, such as a reference gas.

Illustrative example of subject matter classified in this place:



A gas is being alternated with another gas.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Calibrating gas analysers	G01N 33/0006

Special rules of classification

When a gas to be analysed is alternated with a reference gas for calibration of a gas analyser, classification should be made in G01N 33/0026 for the alternating circulation of a gas with another gas, and also in G01N 33/0006, for the calibration.

G01N 33/0031

Definition statement

This place covers:

Gas sensor arrays, particularly mechanical details relating to arrays, such as their arrangement.

Relationships with other classification places

G01N 33/0031 is used to designate mechanical details relating to arrays, while G01N 27/27 is used to designate electrochemical details. It is possible for a document to be classified in G01N 33/0031 despite being directed to an array of gas sensors that are electrochemical. This is the case, for example, when a document mentions an array to detect multiple analytes, and the inventive features are drawn to the layout of the array with respect to the incoming gas stream. In this situation, it is irrelevant as to whether the sensors are electrochemical in nature, i.e. it is irrelevant as to whether the claimed invention is the constructional details of the array or the functioning of the array. Therefore, G01N 33/0031 is used to designate mechanical details relating to a sensor array and G01N 27/27 is used to designate electrochemical details of a sensor array.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electrochemical features of electrode arrays	G01N 27/27

G01N 33/0036

Definition statement

This place covers:

The detector being specially adapted to detect a particular component.

"Specially adapted" in this context is typically supported by disclosure of relevant details of the construction of the detector, such as a specific semipermeable membrane, specific sensor materials or other adaptations to permit detection of a particular component.

References

Limiting references

This place does not cover:

Physical analysis of gaseous biological material	G01N 33/497

Informative references

Attention is drawn to the following places, which may be of interest for search:

Fire alarms using a detection device for specific gases, e.g. combustion products, produced by the fire	G08B 17/117

Special rules of classification

Where a gas analyser is clearly indicated to be capable of detecting various different gases, mere exemplification of one particular gas that is not the inventive contribution (i.e. merely a model gas) is not classified in this group.

G01N 33/0057

Definition statement

This place covers:

The detector being specially adapted to detect the presence of warfare agents or explosives in gaseous samples, e.g. air.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Properties of explosives	G01N 33/227

Special rules of classification

G01N 33/0057 concerns detecting the presence of explosives in gaseous samples, whilst G01N 33/227 is concerned with analysing explosives to determine their physical or chemical properties (e.g. detonation properties).

G01N 33/0062

Definition statement

This place covers:
Gas analysers with emphasis on the measuring method or on the display.

Special rules of classification

Classification may be made in G01N 33/0062 even if the details of the measurement method or the display are not strictly tied to “constructional details” as per group G01N 33/0009.

G01N 33/0063

Definition statement

This place covers:

Gas analysis using a threshold to release an alarm or displaying means during the measuring method.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Alarm arrangements	G08B
Fire alarms actuated by the presence of smoke or gases	G08B 17/10
Toxic gas alarms	G08B 21/14
Combustible gas alarms	G08B 21/16

G01N 33/007

Definition statement

This place covers:

Arrangements to check the integrity of the analyser, e.g. checking to see whether a sensor is in working order or operating within acceptable parameters.

References

Limiting references

This place does not cover:

Calibrating gas analysers	G01N 33/0006

G01N 33/0075

Definition statement

This place covers:

Control units for multiple spatially distributed sensors, e.g. for environmental monitoring of pollution or air quality.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Transmission systems for measured values, control or similar signals	G08C

G01N 33/0098

Definition statement

This place covers:

Investigation or analysis specifically designed for plants or trees.

References

Limiting references

This place does not cover:

Wood	G01N 33/46

Special rules of classification

G01N 33/0098 covers the analysis of plants or trees, but G01N 33/02 – G01N 33/025 covers more specifically:

- Analysis of plants that are food, e.g. corn or soybeans, unless the emphasis is on analysis of the intact crop plant *per se* (covered by G01N 33/0098).
- Analysis of edible plants that have been harvested.

G01N 33/15

Definition statement

This place covers:

Determining the physical properties of medicinal preparations, e.g. determining dissolution or hardness properties of tablets or other formulations to see whether they have been correctly manufactured.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Medicinal pills or tablets or tabletting processes	A61K 9/20
Medicinal capsules or encapsulating processes	A61K 9/48
Apparatus for weighing material of special form	G01G 17/00
Investigating strength properties of solid materials by application of mechanical stress	G01N 3/00
Dissolution of tablets or the like	G01N 2013/006
Drug screening with human or animal cells	G01N 33/5008
Chemical analysis of biological material involving narcotics, drugs or pharmaceuticals, neurotransmitters or associated receptors	G01N 33/94

Special rules of classification

G01N 33/15 covers analysis of medicinal preparations per se, rather than analysis of the drug or medicament contained therein. Thus, this area does not encompass drug screening or testing of drugs per se.

G01N 33/18

Definition statement

This place covers:

Analysis of water, e.g. to determine the presence of other components in water, water being the primary constituent of the material being analysed.

Relationships with other classification places

Analysis of water as an integrated step of water treatment process is classified in C02F.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Analysing polluted water using infrared light	G01N 21/3577
Water in oil, i.e. analysing oil for water therein	G01N 33/2847

G01N 33/1813

Definition statement

This place covers:

Analysis of water for the presence of specific cations therein.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electrochemical analysis	G01N 27/26
pH sensitive electrodes	G01N 27/302
Ion selective electrodes	G01N 27/333
Ion selective field-effect transistors [ISFETs]	G01N 27/414
Detection of ions by colorimetry	G01N 31/22
Investigating pH value using chemical indicators	G01N 31/221

G01N 33/182

Definition statement

This place covers:

Analysis of water for the presence of specific anions therein.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electrochemical analysis	G01N 27/26
pH sensitive electrodes	G01N 27/302

Ion selective electrodes	G01N 27/333
Ion selective field-effect transistors [ISFETs]	G01N 27/414
Detection of ions by colorimetry	G01N 31/22
Investigating pH value using chemical indicators	G01N 31/221

G01N 33/1833

Definition statement

This place covers:

Investigating or analysing water for the presence of oil therein.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Water in oil, i.e. analysing oil for water therein	G01N 33/2847

G01N 33/1866

Definition statement

This place covers:

Investigating or analysing water using microorganisms.

Relationships with other places

Classification is made in C12Q 1/02 or C12Q 1/04 when information about the quantity or kind of microorganisms is being determined. Classification is made in G01N 33/1866 when the material properties of water are being determined using microorganisms. For purposes of classification, microorganisms include bacteria, fungi, viruses, protozoa or algae.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Biological oxygen demand [BOD] or chemical oxygen demand [COD]	G01N 33/1806

G01N 33/188

Definition statement

This place covers:

Analysis of water for state of nitrification.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Biological treatment of water by aerobic or anaerobic processes for nitrification and denitrification of water	C02F 3/302

G01N 33/22

Definition statement

This place covers:

Analysis of non-liquid hydrocarbon fuels.

Analysis of explosives.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Controlling combustion engines	F02D
Liquid hydrocarbon fuels	G01N 33/28

Special rules of classification

Analysis of fuels taking the form of oils (i.e. liquid hydrocarbons), such as crude oil, is classified in G01N 33/28, rather than in G01N 33/22, which covers non-liquid hydrocarbon fuels.

G01N 33/227

Definition statement

This place covers:

Analysis of explosives to determine their physical or chemical properties, e.g. detonation properties.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Detecting the presence of explosives in air	G01N 33/0057

G01N 33/24

Definition statement

This place covers:

Analysis of the chemical or physical properties of earth materials, e.g. testing for contaminants in soil.

References

Limiting references

This place does not cover:

Road-making materials	G01N 33/42

Informative references

Attention is drawn to the following places, which may be of interest for search:

Investigation of foundation soil in situ	E02D 1/00
Testing the nature of borehole walls; Sampling of soil or fluids	E21B 49/00
Devices for testing in situ the hardness or other properties of minerals	E21C 39/00

G01N 33/241

Definition statement

This place covers:

Analysis of earth materials for hydrocarbon content.

Relationships with other classification places

Analysis as an integrated step of a drilling process is generally classified in subclass E21B. Documents related to testing the nature of borehole walls or formation testing by injection test are found in E21B 49/00. Classification in G01N33/241 can be considered if the inventive contribution concerns the chemical or physical analysis technique, which is performed on a sample of material that has been removed for analysis (typically in a laboratory setting rather than in situ), if such aspects cannot be covered in E21B.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Drilling per se	E21B
Analysis of drilling mud	G01N 33/2823
Prospecting	G01V

Special rules of classification

G01N 33/241 covers analysis of earth as the sample material being tested for hydrocarbon content. G01N 33/2823 covers testing of samples of oil, drilling fluid or polyphasic mixtures.

G01N 33/246

Definition statement

This place covers:

Analysis of earth materials for water content.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Soil humidity sensors for control of watering	A01G 25/167

G01N 33/28

References

Limiting references

This place does not cover:

Edible oils or edible fats	G01N 33/03

Informative references

Attention is drawn to the following places, which may be of interest for search:

Gaseous fuels	G01N 33/225

G01N 33/2805

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Investigating resistance of materials to the weather, corrosion or light	G01N 17/00

G01N 33/2817

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Testing of engines	G01M 15/00

G01N 33/2823

Definition statement

This place covers:

Investigating or analysing raw oil (crude oil), drilling fluid or polyphasic mixtures by determining the chemical or physical properties thereof. This could include testing for components within the oil sample, such as basic sediment and water, or testing the density or other properties of the oil.

Relationships with other classification places

Analysis as an integrated step of a drilling process is generally classified in subclass E21B. Classification in G01N33/2823 can be considered if the inventive contribution concerns the chemical or physical analysis techniques that are performed on a sample of material that has been removed for analysis (typically in a laboratory setting rather than in situ), if such aspects cannot be covered in E21B.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Hydrocarbon content of earth materials	G01N 33/241
Prospecting	G01V
Drilling per se	E21B
Obtaining fluid samples or testing fluids, in boreholes or wells	E21B 49/08

Special rules of classification

Analysis of drilling fluids can be classified in G01N 33/2823, even if oil is not the primary constituent (e.g. water-based drilling fluids).

G01N 33/2847

Definition statement

This place covers:

Investigating or analysing oil for water therein.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Oil in water, i.e. analysing water for oil therein	G01N 33/1833
Raw oil, drilling fluid or polyphasic mixtures including analysis of basic sediment and water	G01N 33/2823

G01N 33/2882

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Marking of liquid carbonaceous fuels	C10L 1/003

G01N 33/32

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Investigating resistance of materials to the weather, corrosion or light	G01N 17/00

G01N 33/365

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Measurement of yarn diameter and length	G01B

G01N 33/367

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Optical analysis of moving sheets	G01N 21/86

G01N 33/447

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Machines for treating leather combined with devices for measuring and printing	C14B 1/28
Inspecting hides or furs	C14B 17/005

G01N 33/497

Special rules of classification

Classification in both G01N 33/497 and in G01N 33/0006 – G01N 33/0034 or in G01N 33/0063 – G01N 33/0075 can be made in order to cover different inventive aspects insofar as constructional details etc. are not provided for in G01N 33/497. Thus, a portable gas analyser specially adapted for physical analysis of breath samples may be classified in both G01N 33/497 and in G01N 33/0009, the former symbol designating the material being tested and the latter designating the constructional detail of a portable analyser.

2. A. DEFINITIONS (modified)

G01N 33/00

Definition statement

Replace: The entire Definition statement text with the following revised text:

- Investigating or analysing materials, i.e. either solid, liquid or gaseous media, insofar as the material object of the investigation or analysis is of major importance.
- Investigating or analysing materials by methods specifically adapted to the object of the analysis.
- Investigating or analysing materials by a combination of pre-treatment and analysis, specifically adapted to the object of analysis.
- Investigating or analysing biological material (covered by group G01N 33/48), e.g. blood (in vitro) or urine, including chemical analysis (see definition of subgroup G01N 33/50).

In addition to covering specific methods not covered by groups G01N 1/00 – G01N 31/00, G01N 33/00 and subgroups are also considered where there is emphasis on the particular material being analysed, or where the method is specifically adapted for analysis of a particular material.

Relationships with other classification places

Replace: The entire Relationships section text with the following revised text:

Analysis as an integrated step of a process should be classified with the process, insofar as the process is fully provided for in another subclass. For example, analysis of water as an integrated step of a water treatment process is classified in subclass C02F.

If the apparatus is fully classifiable in a single other subclass, e.g. B01L for chemical or physical apparatus for general laboratory use, classification should be made in the appropriate apparatus area.

Testing or determining the properties of structures, e.g. apparatus or machine parts, is classified in the relevant subclass for the structure being tested. G01M is the residual place for classifying testing of structures not covered elsewhere.

Nominal recitation of analysis, unsupported by disclosure of an inventive or non-trivial testing technique, is not typically classified in G01N 33/00 and subgroups.

For example, G01N 33/00 and subgroups are not allocated for analysis of a merely trivial or conventional nature, such as could be performed using a commercially available test kit, nor for highly general references to analysis with no emphasis on any particular testing technique (e.g. use of a highly generic "sensor").

References out of a residual place

Insert: The following two new rows into the existing References out of a residual place table:

Investigating or analysing materials by separation into components using adsorption, absorption or similar phenomena or using ion-exchange, e.g. chromatography	G01N 30/00
Investigating or analysing non-biological materials by the use of the chemical methods specified in the subgroup	G01N 31/00

Insert: The following new Special rules of classification section:

Special rules of classification

In subgroups G01N 33/0004 – G01N 33/46, the material listed in the title is the primary constituent of the materials being analysed. For example, a document relating to detection of heavy metal ions in water is covered by G01N 33/1813, rather than G01N 33/20, which covers metal as the primary constituent of the material being analysed. An exception is made with respect to analysis of drilling fluids, which can be covered by G01N 33/2823, even if oil is not the primary constituent (e.g. water-based drilling fluids).

G01N 33/00 – G01N 33/46 and G01N 33/483 – G01N 33/4977:

It is common to classify in G01N 1/00 – G01N 31/00 for the technique (e.g. optical testing in subgroups under G01N 21/00 or thermal testing in subgroups under G01N 25/00), and also in G01N33/00 for the material tested (where the material is important), typically allocated as additional information (A).

Orthogonal Indexing Codes:

Orthogonal indexing codes in the range G01N 2333/00 – G01N 2800/7095 must be used when appropriate to further classify technical aspects of documents classified in G01N 33/50 – G01N 33/98 or in C12Q 1/001 – C12Q 1/66. See

Special rules of classification for G01N 33/50 and C12Q 1/00 for further guidance.

G01N 37/00

Definition statement

Replace: The entire Definition statement text with the following revised text:

- Classification of details or apparatus for analysing materials not fully covered by any of the other main groups in G01N.
- Measurement methods not based on established scientific theories, which are classified in G01N 37/005.

References

Delete: The entire Limiting references section.

Insert: The following new References out of a residual place section:

References out of a residual place

Examples of places in relation to which this place is residual:

Sampling; Preparing specimens for investigation	G01N 1/00
Investigating strength properties of solid materials by application of mechanical stress	G01N 3/00
Analysing materials by weighing, e.g. weighing small particles separated from a gas or liquid	G01N 5/00
Analysing materials by measuring the pressure or volume of a gas or vapour	G01N 7/00
Investigating density or specific gravity of materials; Analysing materials by determining density or specific gravity	G01N 9/00
Investigating flow properties of materials, e.g. viscosity or plasticity; Analysing materials by determining flow properties	G01N 11/00

Investigating surface or boundary effects, e.g. wetting power; Investigating diffusion effects; Analysing materials by determining surface, boundary or diffusion effects	G01N 13/00
Investigating characteristics of particles; Investigating permeability, pore-volume or surface-area of porous materials	G01N 15/00
Investigating resistance of materials to the weather, to corrosion or to light	G01N 17/00
Investigating materials by mechanical methods	G01N 19/00
Investigating or analysing materials by the use of optical means, i.e. using infrared, visible or ultraviolet light	G01N 21/00
Investigating or analysing materials by the use of microwaves	G01N 22/00
Investigating or analysing materials by the use of other wave or particle radiation, e.g. X-rays or neutrons	G01N 23/00
Investigating or analysing materials by the use of nuclear magnetic resonance, electron paramagnetic resonance or other spin effects	G01N 24/00
Investigating or analysing materials by the use of thermal means	G01N 25/00
Investigating or analysing materials by the use of electric, electro-chemical, or magnetic means	G01N 27/00
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 29/00
Investigating or analysing materials by separation into components using adsorption, absorption or similar phenomena or using ion-exchange, e.g. chromatography	G01N 30/00
Investigating or analysing non-biological materials by the use of the chemical methods specified in the subgroup	G01N 31/00
Investigating or analysing materials by specific methods not covered by the preceding groups	G01N 33/00
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	G01N 35/00

G01N 37/005

Definition statement

Replace: The entire Definition statement text with the following revised text:

Measurement or analysis methods not based on established scientific theories, i.e. those theories that appear to contravene known laws of physics or have no basis in accepted scientific definitions and understanding. Examples include homeopathy, water memory or informational life energy.

3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	G01N2033/0003	<administrative transfer to G01N33/0003 INV>
D	G01N2033/0019	<administrative transfer to G01N33/0019 INV>
D	G01N2033/0068	<administrative transfer to G01N33/0068 INV>
D	G01N2033/0072	<administrative transfer to G01N33/0072 INV>
D	G01N2033/0077	<administrative transfer to G01N33/0077 INV>
D	G01N2033/0078	<administrative transfer to G01N33/0078 INV>
D	G01N2033/008	<administrative transfer to G01N33/008 INV>
D	G01N2033/0081	<administrative transfer to G01N33/0081 INV>
D	G01N2033/0083	<administrative transfer to G01N33/0083 INV>
D	G01N2033/0085	<administrative transfer to G01N33/0085 INV>
D	G01N2033/0086	<administrative transfer to G01N33/0086 INV>
D	G01N2033/0088	<administrative transfer to G01N33/0078 INV>
D	G01N2033/009	<administrative transfer to G01N33/009 INV>
D	G01N2033/0091	<administrative transfer to G01N33/0091 INV>
D	G01N2033/0093	<administrative transfer to G01N33/0093 INV>
D	G01N2033/0095	<administrative transfer to G01N33/0095 INV>
D	G01N2033/0096	<administrative transfer to G01N33/0096 INV>
D	G01N2033/105	<administrative transfer to G01N33/105 INV>
D	G01N2033/184	<administrative transfer to G01N33/184 INV>
D	G01N2033/1873	<administrative transfer to G01N33/1873 INV>
D	G01N2033/243	<administrative transfer to G01N33/243 INV>
D	G01N2033/245	<administrative transfer to G01N33/245 INV>
D	G01N2033/248	<administrative transfer to G01N33/248 INV>
D	G01N33/381	<administrative transfer to G01N33/389 INV>
D	G01N33/385	<administrative transfer to G01N33/39 INV>
D	G01N2033/4975	<administrative transfer to G01N33/4975 INV>
D	G01N2033/4977	<administrative transfer to G01N33/4977 INV>

* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F and Q type entries are included in the table above.

- When multiple symbols are included in the "To" column, do not use ranges of symbols.
- For administrative transfer of documents, the following text should be used: "<administrative transfer to XX>", "<administrative transfer to XX and YY simultaneously>", or "<administrative transfer to XX, YY, ...and ZZ simultaneously>" when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be "additional information".
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations "ADD" or "INV": <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or <administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the "D" entries of 2000-series or Y-series groups may not require a destination ("To") symbol, however it is required to specify "<no transfer>" in the "To" column for such cases.
- RCL is not needed for finalization projects.

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

CPC	**IPC**	**Action***
G01N33/0003	G01N 33/00	NEW
G01N33/0019	G01N 33/00	NEW
G01N33/0068	G01N 33/00	NEW
G01N33/0072	G01N 33/00	NEW
G01N33/0077	G01N 33/00	NEW
G01N33/0078	G01N 33/00	NEW
G01N33/008	G01N 33/00	NEW
G01N33/0081	G01N 33/00	NEW
G01N33/0083	G01N 33/00	NEW
G01N33/0085	G01N 33/00	NEW
G01N33/0086	G01N 33/00	NEW
G01N33/009	G01N 33/00	NEW
G01N33/0091	G01N 33/00	NEW
G01N33/0093	G01N 33/00	NEW
G01N33/0095	G01N 33/00	NEW
G01N33/0096	G01N 33/00	NEW
G01N33/105	G01N 33/10	NEW
G01N33/184	G01N 33/18	NEW
G01N33/1873	G01N 33/18	NEW
G01N33/243	G01N 33/24	NEW
G01N33/245	G01N 33/24	NEW
G01N33/248	G01N 33/24	NEW
G01N33/381		DELETE
G01N33/385		DELETE
G01N33/389	G01N 33/00	NEW
G01N33/39	G01N 33/00	NEW
G01N33/4975	G01N 33/497	NEW
G01N33/4977	G01N 33/497	NEW
G01N2033/0003		DELETE
G01N2033/0019		DELETE
G01N2033/0068		DELETE
G01N2033/0072		DELETE
G01N2033/0077		DELETE

G01N2033/0078		DELETE
G01N2033/008		DELETE
G01N2033/0081		DELETE
G01N2033/0083		DELETE
G01N2033/0085		DELETE
G01N2033/0086		DELETE
G01N2033/0088		DELETE
G01N2033/009		DELETE
G01N2033/0091		DELETE
G01N2033/0093		DELETE
G01N2033/0095		DELETE
G01N2033/0096		DELETE
G01N2033/105		DELETE
G01N2033/184		DELETE
G01N2033/1873		DELETE
G01N2033/243		DELETE
G01N2033/245		DELETE
G01N2033/248		DELETE
G01N2033/4975		DELETE
G01N2033/4977		DELETE

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with "NEW."
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with "UPDATED."
- For a (D) CPC entry or indexing entry complete the Action column with "DELETE." IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with "NEW".
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with "CPCONLY" and complete the action column with "NEW".

NOTES:

- F symbols are not included in the CICL table above.
- T and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.

5. CROSS-REFERENCE LIST (CRL)

Definitions references impacted by this revision project

Location of reference to be changed	**Referenced subclass or group to be changed**	**Section of definition**	**Action; New reference symbol; New text**
A63C 11/26	Testing material properties on sport articles G01N 2033/008, B23B 47/285	Informative references	Replace the existing table row with the following two new rows: Jigs for drilling ski bindings B23B 47/285 Testing material properties on sport articles G01N 33/008
D06H 3/16	Testing properties of cloths, hosiery G01N 2033/0086	Informative references	Replace the existing table row with the following new row: Testing properties of clothes or hosiery G01N 33/0086
G01N 21/87	G01N 33/381	Informative References	Replace the existing symbol with the following new symbol: G01N 33/389

NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions inside the project scope will be reflected in the "scheme change" template or one of the "definition" templates.
- In addition to other changes proposed in the tables above, in the column titled "Referenced subclass or group to be changed," **referenced** D symbols should indicate an action of "delete" or should indicate a replacement symbol and **referenced** F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.