1

CPC COOPERATIVE PATENT CLASSIFICATION

G PHYSICS

(NOTES omitted)

INSTRUMENTS

G01 MEASURING; TESTING

(NOTES omitted)

G01C MEASURING DISTANCES, LEVELS OR BEARINGS; SURVEYING; NAVIGATION; GYROSCOPIC INSTRUMENTS; PHOTOGRAMMETRY OR VIDEOGRAMMETRY

(measuring liquid level <u>G01F</u>; radio navigation, determining distance or velocity by use of propagation effects, e.g. Doppler effects, propagation time, of radio waves, analogous arrangements using other waves <u>G01S</u>)

NOTES

- 1. In this subclass, the following term is used with the meaning indicated:
 "navigation" means determining the position and course of land vehicles, ships, aircraft, and space vehicles.
- 2. Attention is drawn to the Notes following the title of class <u>G01</u>.

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.}

1 /00	X	2/22	
1/00	Measuring angles	3/22	• using a parallactic triangle with variable angles and
1/02	. Theodolites		a base of fixed length at, near, or formed by the object
1/04	combined with cameras	2/24	,
1/06	Arrangements for reading scales	3/24	using a parallactic triangle with fixed angles and a
1/08	• Sextants		base of variable length in the observation station, e.g. in the instrument
1/10	 including an artificial horizon (<u>G01C 1/14</u> takes precedence) 	3/26	using a parallactic triangle with fixed angles and a
1/12	• • • with a stabilised mirror		base of variable length, at, near, or formed by the
1/14	Periscopic sextants	2/20	object
2/00		3/28	with provision for reduction of the distance into
3/00	Measuring distances in line of sight; Optical	2/20	the horizontal plane
	rangefinders (tapes, chains or wheels for measuring length <u>G01B 3/00</u> ; active triangulation systems,	3/30	• • • with adaptation to the measurement of the
	i.e. using the transmission and reflection of	2/22	height of an object, e.g. tacheometers
	electromagnetic waves other than radio waves,	3/32	. by focusing the object, e.g. on a ground glass screen
	G01S 17/48)	5/00	Measuring height; Measuring distances transverse
3/02	Details		to line of sight; Levelling between separated
3/04	Adaptation of rangefinders for combination with		points; Surveyors' levels (G01C 3/20, G01C 3/30
3/04	telescopes or binoculars		take precedence)
3/06	Use of electric means to obtain final indication	5/005	• {altimeters for aircraft (G01C 5/02, G01C 5/06 take
3/08	Use of electric radiation detectors		precedence)}
3/085		5/02	 involving automatic stabilisation of the line of sight
	• • • {with electronic parallax measurement}	5/04	Hydrostatic levelling, i.e. by flexibly interconnected
3/10	• using a parallactic triangle with variable angles and		liquid containers at separated points
	a base of fixed length in the observation station, e.g. in the instrument	5/06	 by using barometric means
3/12		= /0.0	T
3/12	 with monocular observation at a single point, e.g. coincidence type (G01C 3/20 takes precedence) 	7/00	Tracing profiles (by photogrammetry or
3/14	• with binocular observation at a single point, e.g.	7.00	videogrammetry <u>G01C 11/00</u>)
3/14	stereoscopic type (<u>G01C 3/20</u> takes precedence)	7/02	• of land surfaces
3/16	Measuring marks	7/04	involving a vehicle which moves along the profile
3/18	<u> </u>		to be traced
3/18	• with one observation point at each end of the base (G01C 3/20 takes precedence)	7/06	• of cavities, e.g. tunnels
3/20	with adaptation to the measurement of the height of an object	9/00	Measuring inclination, e.g. by clinometers, by levels
	or an object	9/005	• {specially adapted for use in aircraft}

9/02	. Details	11/24	with optical-mechanical projection
9/04	Transmission means between sensing element and		(G01C 11/26 takes precedence)
	final indicator for giving an enlarged reading	11/26	• • • using computers to control the position of the
9/06	 Electric or photoelectric indication or reading 		pictures
	means	11/28	Special adaptation for recording picture point
2009/062	• • {capacitive}		data, e.g. for profiles
2009/064	• • {inductive}	11/30	by triangulation
2009/066	· · · {optical}	11/32	Radial triangulation
2009/068	· · · {resistive}	11/34	Aerial triangulation
9/08	` ,	11/36	Videogrammetry, i.e. electronic processing of video
9/08	Means for compensating acceleration forces due to movement of instrument	11/30	signals {from a single source or } from different
0.41.0			sources to give parallax or range information
9/10	• by using rolling bodies {, e.g. spheres, cylinders,		sources to give paramax or range information
	mercury droplets}	13/00	Surveying specially adapted to open water, e.g. sea,
2009/102	• • {cylinders}		lake, river or canal (liquid level metering G01F)
2009/105	• • {mercury droplets}	13/002	• {Measuring the movement of open water}
2009/107	• • {spheres}	13/004	• {vertical movement}
9/12	 by using a single pendulum (plumb lines 	13/004	• {horizontal movement}
	G01C 15/10)		
9/14	movable in more than one direction	13/008	• {measuring depth of open water}
9/16	• by using more than one pendulum	15/00	Surveying instruments or accessories not provided
9/18	 by using liquids 		for in groups <u>G01C 1/00</u> - <u>G01C 13/00</u>
		15/002	• {Active optical surveying means (optical plumbing
2009/182	• · {conductive}	13/002	G01C 15/105)}
2009/185	{dielectric}	15/004	
2009/187	• • {magnetic, e.g. ferromagnetic}	15/004	• • {Reference lines, planes or sectors}
9/20	• the indication being based on the inclination of	15/006	{Detectors therefor}
	the surface of a liquid relative to its container	15/008	• • {combined with inclination sensor}
9/22	with interconnected containers in fixed relation	15/02	 Means for marking measuring points
	to each other	15/04	 Permanent marks; Boundary markers
9/24	in closed containers partially filled with liquid so	15/06	Surveyors' staffs; Movable markers
	as to leave a gas bubble	15/08	Plumbing or registering staffs or markers over
9/26	Details		ground marks
		15/10	
			. Plumb lines
9/28	Mountings Means for adjusting dimensions of hubble		• Plumb lines
9/30	Means for adjusting dimensions of bubble	15/105	• • {Optical plumbing}
	 Means for adjusting dimensions of bubble Means for facilitating the observation of		• {Optical plumbing}• Instruments for setting out fixed angles, e.g. right
9/30	 Means for adjusting dimensions of bubble Means for facilitating the observation of the position of the bubble, e.g. illuminating 	15/105 15/12	• {Optical plumbing}• Instruments for setting out fixed angles, e.g. right angles
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9/30 9/32 9/34 9/36 11/00 11/02 11/025 11/04 11/06 11/08	 Means for adjusting dimensions of bubble Means for facilitating the observation of the position of the bubble, e.g. illuminating means of the tubular type, i.e. for indicating the level in one direction only of the spherical type, i.e. for indicating the level in all directions Photogrammetry or videogrammetry, e.g. stereogrammetry; Photographic surveying Picture taking arrangements specially adapted for photogrammetry or photographic surveying, e.g. controlling overlapping of pictures {by scanning the object} Interpretation of pictures by comparison of two or more pictures of the same area the pictures not being supported in the same relative position as when they were taken using computers to control the position of the pictures the pictures being supported in the same 	15/105 15/12 15/14 17/00 17/02 17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/18 17/20 17/22	 • {Optical plumbing} • Instruments for setting out fixed angles, e.g. right angles • Artificial horizons Compasses; Devices for ascertaining true or magnetic north for navigation or surveying purposes (using gyroscopic effect G01C 19/00) • Magnetic compasses • with north-seeking magnetic elements, e.g. needles • . • Suspending magnetic elements • . • by flotation • • Comparing observed direction with north indication • • by sighting means, e.g. for surveyors' compasses • • by reference marks, e.g. for ships' compasses • • by clinometers, e.g. for determining dip or strike of geological strata • • Supporting or suspending compasses, e.g. by gimbal, by flotation • • Observing the compass card or needle • • by projection
9/30 9/32 9/34 9/36 11/00 11/02 11/025 11/04 11/06 11/08 11/10 11/12	 Means for adjusting dimensions of bubble Means for facilitating the observation of the position of the bubble, e.g. illuminating means of the tubular type, i.e. for indicating the level in one direction only of the spherical type, i.e. for indicating the level in all directions Photogrammetry or videogrammetry, e.g. stereogrammetry; Photographic surveying Picture taking arrangements specially adapted for photogrammetry or photographic surveying, e.g. controlling overlapping of pictures {by scanning the object} Interpretation of pictures by comparison of two or more pictures of the same area the pictures not being supported in the same relative position as when they were taken the pictures being supported in the same relative position as when they were taken 	15/105 15/12 15/14 17/00 17/02 17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/18 17/20 17/22 17/24	 • {Optical plumbing} • Instruments for setting out fixed angles, e.g. right angles • Artificial horizons Compasses; Devices for ascertaining true or magnetic north for navigation or surveying purposes (using gyroscopic effect G01C 19/00) • Magnetic compasses • with north-seeking magnetic elements, e.g. needles • . • Suspending magnetic elements • . • by flotation • • Comparing observed direction with north indication • . • by sighting means, e.g. for surveyors' compasses • • by reference marks, e.g. for ships' compasses • • by clinometers, e.g. for determining dip or strike of geological strata • • Supporting or suspending compasses, e.g. by gimbal, by flotation • • Observing the compass card or needle • • by projection • • Illumination
9/30 9/32 9/34 9/36 11/00 11/02 11/025 11/04 11/06 11/08 11/10 11/12	 Means for adjusting dimensions of bubble Means for facilitating the observation of the position of the bubble, e.g. illuminating means of the tubular type, i.e. for indicating the level in one direction only of the spherical type, i.e. for indicating the level in all directions Photogrammetry or videogrammetry, e.g. stereogrammetry; Photographic surveying Picture taking arrangements specially adapted for photogrammetry or photographic surveying, e.g. controlling overlapping of pictures {by scanning the object} Interpretation of pictures by comparison of two or more pictures of the same area the pictures not being supported in the same relative position as when they were taken using computers to control the position of the pictures the pictures being supported in the same relative position as when they were taken with optical projection (G01C 11/26 takes precedence) 	15/105 15/12 15/14 17/00 17/02 17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/18 17/20 17/22	 • {Optical plumbing} • Instruments for setting out fixed angles, e.g. right angles • Artificial horizons Compasses; Devices for ascertaining true or magnetic north for navigation or surveying purposes (using gyroscopic effect G01C 19/00) • Magnetic compasses • with north-seeking magnetic elements, e.g. needles • . • Suspending magnetic elements • . • by flotation • . • Comparing observed direction with north indication • . • by sighting means, e.g. for surveyors' compasses • . • by reference marks, e.g. for ships' compasses • . • by clinometers, e.g. for determining dip or strike of geological strata • . • Supporting or suspending compasses, e.g. by gimbal, by flotation • . • Observing the compass card or needle • . • by projection • . • Illumination • • using electric pick-offs for transmission to
9/30 9/32 9/34 9/36 11/00 11/02 11/025 11/04 11/06 11/08 11/10 11/12 11/14 11/16	 Means for adjusting dimensions of bubble Means for facilitating the observation of the position of the bubble, e.g. illuminating means of the tubular type, i.e. for indicating the level in one direction only of the spherical type, i.e. for indicating the level in all directions Photogrammetry or videogrammetry, e.g. stereogrammetry; Photographic surveying Picture taking arrangements specially adapted for photogrammetry or photographic surveying, e.g. controlling overlapping of pictures {by scanning the object} Interpretation of pictures by comparison of two or more pictures of the same area the pictures not being supported in the same relative position as when they were taken using computers to control the position of the pictures the pictures being supported in the same relative position as when they were taken with optical projection (G01C 11/26 takes precedence) in a common plane 	15/105 15/12 15/14 17/00 17/02 17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/18 17/20 17/22 17/24 17/26	 • {Optical plumbing} • Instruments for setting out fixed angles, e.g. right angles • Artificial horizons Compasses; Devices for ascertaining true or magnetic north for navigation or surveying purposes (using gyroscopic effect G01C 19/00) • Magnetic compasses • with north-seeking magnetic elements, e.g. needles • Suspending magnetic elements • by flotation • Comparing observed direction with north indication • by sighting means, e.g. for surveyors' compasses • by reference marks, e.g. for ships' compasses • by clinometers, e.g. for determining dip or strike of geological strata • Supporting or suspending compasses, e.g. by gimbal, by flotation • Observing the compass card or needle • by projection • Illumination • using electric pick-offs for transmission to final indicator, e.g. photocell
9/30 9/32 9/34 9/36 11/00 11/02 11/025 11/04 11/06 11/08 11/10 11/12 11/14 11/16 11/18	 Means for adjusting dimensions of bubble Means for facilitating the observation of the position of the bubble, e.g. illuminating means of the tubular type, i.e. for indicating the level in one direction only of the spherical type, i.e. for indicating the level in all directions Photogrammetry or videogrammetry, e.g. stereogrammetry; Photographic surveying Picture taking arrangements specially adapted for photogrammetry or photographic surveying, e.g. controlling overlapping of pictures {by scanning the object} Interpretation of pictures by comparison of two or more pictures of the same area the pictures not being supported in the same relative position as when they were taken using computers to control the position of the pictures the pictures being supported in the same relative position as when they were taken with optical projection (G01C 11/26 takes precedence) in a common plane involving scanning means 	15/105 15/12 15/14 17/00 17/02 17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/18 17/20 17/22 17/24	 • {Optical plumbing} • Instruments for setting out fixed angles, e.g. right angles • Artificial horizons Compasses; Devices for ascertaining true or magnetic north for navigation or surveying purposes (using gyroscopic effect G01C 19/00) • Magnetic compasses • with north-seeking magnetic elements, e.g. needles • Suspending magnetic elements • by flotation • Comparing observed direction with north indication • by sighting means, e.g. for surveyors' compasses • by reference marks, e.g. for ships' compasses • by clinometers, e.g. for determining dip or strike of geological strata • Supporting or suspending compasses, e.g. by gimbal, by flotation • Observing the compass card or needle • by projection • Illumination • using electric pick-offs for transmission to final indicator, e.g. photocell • Electromagnetic compasses (with north seeking
9/30 9/32 9/34 9/36 11/00 11/02 11/025 11/04 11/06 11/08 11/10 11/12 11/14 11/16 11/18 11/20	 Means for adjusting dimensions of bubble Means for facilitating the observation of the position of the bubble, e.g. illuminating means of the tubular type, i.e. for indicating the level in one direction only of the spherical type, i.e. for indicating the level in all directions Photogrammetry or videogrammetry, e.g. stereogrammetry; Photographic surveying Picture taking arrangements specially adapted for photogrammetry or photographic surveying, e.g. controlling overlapping of pictures {by scanning the object} Interpretation of pictures by comparison of two or more pictures of the same area the pictures not being supported in the same relative position as when they were taken using computers to control the position of the pictures the pictures being supported in the same relative position as when they were taken with optical projection (G01C 11/26 takes precedence) in a common plane in in separate planes 	15/105 15/12 15/14 17/00 17/02 17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/18 17/20 17/22 17/24 17/26	 • {Optical plumbing} • Instruments for setting out fixed angles, e.g. right angles • Artificial horizons Compasses; Devices for ascertaining true or magnetic north for navigation or surveying purposes (using gyroscopic effect G01C 19/00) • Magnetic compasses • with north-seeking magnetic elements, e.g. needles • Suspending magnetic elements • by flotation • Comparing observed direction with north indication • by sighting means, e.g. for surveyors' compasses • by reference marks, e.g. for ships' compasses • by clinometers, e.g. for determining dip or strike of geological strata • Supporting or suspending compasses, e.g. by gimbal, by flotation • Observing the compass card or needle • by projection • Illumination • using electric pick-offs for transmission to final indicator, e.g. photocell • Electromagnetic compasses (with north seeking magnetic elements and having electric pick-offs
9/30 9/32 9/34 9/36 11/00 11/02 11/025 11/04 11/06 11/08 11/10 11/12 11/14 11/16 11/18	 Means for adjusting dimensions of bubble Means for facilitating the observation of the position of the bubble, e.g. illuminating means of the tubular type, i.e. for indicating the level in one direction only of the spherical type, i.e. for indicating the level in all directions Photogrammetry or videogrammetry, e.g. stereogrammetry; Photographic surveying Picture taking arrangements specially adapted for photogrammetry or photographic surveying, e.g. controlling overlapping of pictures {by scanning the object} Interpretation of pictures by comparison of two or more pictures of the same area the pictures not being supported in the same relative position as when they were taken using computers to control the position of the pictures the pictures being supported in the same relative position as when they were taken with optical projection (G01C 11/26 takes precedence) in a common plane involving scanning means 	15/105 15/12 15/14 17/00 17/02 17/04 17/06 17/08 17/10 17/12 17/14 17/16 17/18 17/20 17/22 17/24 17/26	 • {Optical plumbing} • Instruments for setting out fixed angles, e.g. right angles • Artificial horizons Compasses; Devices for ascertaining true or magnetic north for navigation or surveying purposes (using gyroscopic effect G01C 19/00) • Magnetic compasses • with north-seeking magnetic elements, e.g. needles • Suspending magnetic elements • by flotation • Comparing observed direction with north indication • by sighting means, e.g. for surveyors' compasses • by reference marks, e.g. for ships' compasses • by clinometers, e.g. for determining dip or strike of geological strata • Supporting or suspending compasses, e.g. by gimbal, by flotation • Observing the compass card or needle • by projection • Illumination • using electric pick-offs for transmission to final indicator, e.g. photocell • Electromagnetic compasses (with north seeking

17/32	Electron compasses	19/5607	• using vibrating tuning forks (double-ended tuning
17/34	Sun- or astro-compasses		forks using planar vibrating masses suspended at
17/36	• Repeaters for remote indication of readings of a		opposite ends <u>G01C 19/5719</u>)
	master compass	19/5614	Signal processing
17/38	 Testing, calibrating, or compensating of compasses 	19/5621	the devices involving a micromechanical
19/00	Gyroscopes; Turn-sensitive devices using vibrating		structure
19/00	masses; Turn-sensitive devices using vibrating	19/5628	Manufacturing; Trimming; Mounting;
	masses; Measuring angular rate using gyroscopic		Housings
	effects	19/5635	 using vibrating wires or strings
19/005	• {Measuring angular rate using gyroscopic effects}	19/5642	 using vibrating bars or beams
19/003	Rotary gyroscopes	19/5649	Signal processing
		19/5656	the devices involving a micromechanical
19/025	• • {Gyroscopes functioning for short periods}		structure
19/04	. Details	19/5663	Manufacturing; Trimming; Mounting;
19/06	Rotors		Housings
19/065	{Means for measuring or controlling of	19/567	using the phase shift of a vibration node or
	rotors' angular velocity}		antinode
19/08	• • • electrically driven (G01C 19/14 takes	19/5677	of essentially two-dimensional vibrators, e.g.
	precedence)		ring-shaped vibrators
19/10	Power supply	19/5684	the devices involving a micromechanical
19/12	• • • fluid driven (<u>G01C 19/14</u> takes precedence)		structure
19/14	Fluid rotors	19/5691	of essentially three-dimensional vibrators, e.g.
19/16	Suspensions; Bearings		wine glass-type vibrators
19/18	providing movement of rotor with respect to	19/5698	using acoustic waves, e.g. surface acoustic wave
	its rotational axes (G01C 19/20, G01C 19/24		gyros
	take precedence)	19/5705	using masses driven in reciprocating rotary
19/20	in fluid		motion about an axis
19/22	torsional	19/5712	the devices involving a micromechanical
19/24	using magnetic or electrostatic fields		structure
19/26	Caging, i.e. immobilising moving parts, e.g. for	19/5719	using planar vibrating masses driven in a
	transport		translation vibration along an axis
19/28	Pick-offs, i.e. devices for taking-off an	19/5726	Signal processing
	indication of the displacement of the rotor axis	19/5733	Structural details or topology
19/30	Erection devices, i.e. devices for restoring	19/574	the devices having two sensing masses in
	rotor axis to a desired position (for instrument	1)/3/4	anti-phase motion
	indicating the vertical G01C 19/46)	19/5747	• • • • each sensing mass being connected to a
19/32	Indicating or recording means specially adapted	17/3/4/	driving mass, e.g. driving frames
	for rotary gyroscopes	19/5755	the devices having a single sensing mass
19/34	• • for indicating a direction in the horizontal plane,	19/5762	the sensing mass being connected to a
	e.g. directional gyroscopes	17/3/02	driving mass, e.g. driving frames
19/36	• • • with north-seeking action by magnetic means,	19/5769	Manufacturing; Mounting; Housings
	e.g. gyromagnetic compasses	19/5776	Signal processing not specific to any
19/38	with north-seeking action by other than	19/3/70	of the devices covered by groups
	magnetic means, e.g. gyrocompasses using		G01C 19/5607 - G01C 19/5719
	earth's rotation	19/5783	Mountings or housings not specific to
19/40	for control by signals from a master compass, i.e.	19/3/63	any of the devices covered by groups
	repeater compasses		G01C 19/5607 - G01C 19/5719
19/42	for indicating rate of turn; for integrating rate of	19/58	• Turn-sensitive devices without moving masses
	turn	19/58	Electronic or nuclear magnetic resonance
19/44	for indicating the vertical	19/00	gyrometers
19/46	Erection devices for restoring rotor axis to a	10/62	••
	desired position	19/62	• • • with optical pumping
19/48	• • • • operating by electrical means (G01C 19/54	19/64	Gyrometers using the Sagnac effect, i.e. rotation-induced shifts between counter-rotating
	takes precedence)		-
19/50	• • • operating by mechanical means (G01C 19/54	19/66	electromagnetic beams Ring laser gyrometers
	takes precedence)		
19/52	• • • operating by fluid means (G01C 19/54 takes	19/661	{details}
-	precedence)	19/662	• • • • { signal readout; dither compensators }
19/54	• • • • with correction for acceleration forces due to	19/664	• • • • • {means for removing the dither signal}
	movement of instrument	19/665	• • • • {control of the cavity }
19/56	Turn-sensitive devices using vibrating masses, e.g.	19/667	• • • {using a multioscillator ring laser}
	vibratory angular rate sensors based on Coriolis	19/668	{Assemblies for measuring along different
	forces		axes, e.g. triads}
		19/68	Lock-in prevention

19/70	by mechanical means	21/26 • specially adapted for navigation in a	a road network
19/72	• • • with counter-rotating light beams in a passive	21/265 • Constructional aspects of naviga	tion devices, e.g.
10/721	ring, e.g. fibre laser gyrometers	housings, mountings, displays (G takes precedence)}	<u>01C 21/3688</u>
19/721 19/722	 {Details, e.g. optical or electronical details} {of the mechanical construction}	21/28 • with correlation of data from seve	eral navigational
19/722	{ Heterodyning fibre optic gyrometers }	instruments	Jai navigationai
19/725	{using nxn optical couplers, e.g. 3x3	21/30 Map- or contour-matching	
17/123	couplers}	21/32 Structuring or formatting of	map data
19/726	• • • • {Phase nulling gyrometers, i.e. compensating	21/34 Route searching; Route guidance	
	the Sagnac phase shift in a closed loop	21/3407 {specially adapted for specific	applications}
	system}	21/3415 {Dynamic re-routing, e.g. re	
19/727	• • • { using a passive ring resonator}	route when the user deviates	
19/728	{Assemblies for measuring along different	route or after detecting real-	time traffic data
	axes, e.g. triads}	or accidents}	
21/00	Navigation; Navigational instruments not provided	21/3423 {Multimodal routing} 21/343 {Calculating itineraries (trav	valling salasman
	for in groups <u>G01C 1/00</u> - <u>G01C 19/00</u> (measuring	problem G06Q 10/04; optim	
	distance traversed on the ground by a vehicle	G06Q 10/047)}	isution of foutes
	G01C 22/00; control of position, course, altitude or	21/3438 {Rendezvous; Ride sharing}	
	attitude of vehicles <u>G05D 1/00</u> ; traffic control systems for road vehicles involving transmission of navigation	21/3446 {Details of route searching alg	
	instructions to the vehicle <u>G08G 1/0968</u>)	Dijkstra, A*, arc-flags or using	precalculated
21/005	• {with correlation of navigation data from several	routes}	
21/000	sources, e.g. map or contour matching (G01C 21/30	21/3453 {Special cost functions, i.e. oth	
	takes precedence)}	or default speed limit of road s	
21/02	 by astronomical means (<u>G01C 21/24</u>, <u>G01C 21/26</u> 	21/3461 {Preferred or disfavoured and dangerous zones, toll or emi-	
	take precedence)	intersections, manoeuvre typ	
21/025	• • {with the use of startrackers}	such as motorways, toll road	
21/04	• by terrestrial means (<u>G01C 21/24</u> , <u>G01C 21/26</u> take	21/3469 {Fuel consumption; Energy	
21/06	precedence)	aspects}	
21/06	 involving measuring of drift angle; involving correction for drift 	21/3476 • • • • { using point of interest [POI	
21/08	involving use of the magnetic field of the earth	e.g. a route passing visible P	
21/10	 by using measurements of speed or acceleration 	21/3484 {Personalized, e.g. from lear	
	(G01C 21/24, G01C 21/26 take precedence)	behaviour or user-defined pr 21/3492 {employing speed data or tra	
21/12	executed aboard the object being navigated; Dead	real-time or historical (traffic	
	reckoning	for road vehicles involving t	
21/14	• • • by recording the course traversed by the object	of navigation instructions to	
01/16	(G01C 21/16 takes precedence)	<u>G08G 1/0968</u>)}	
21/16	 by integrating acceleration or speed, i.e. inertial navigation 	21/36 Input/output arrangements for	on-board
21/165	• • • {combined with non-inertial navigation	computers	
21/103	instruments}	21/3602 {Input other than that of designates image analysis, e.g. detection	
21/1652	• • • • { with ranging devices, e.g. LIDAR or	lanes, buildings, real precedi	•
	RADAR}	using a camera}	6
21/1654	• • • • {with electromagnetic compass}	21/3605 {Destination input or retriev	al}
21/1656	• • • • { with passive imaging devices, e.g.	21/3608 {using speech input, e.g. u	ising speech
21/166	cameras}	recognition}	
21/166	 . • {Mechanical, construction or arrangement details of inertial navigation systems} 	21/3611 {using character input or r	
21/18	Stabilised platforms, e.g. by gyroscope	menus of POIs (character	input methods in
21/18	{Compensation of inertial measurements,	general G06F 3/0233)} 21/3614 {through interaction with	a road man e a
21/103	e.g. for temperature effects}	selecting a POI icon on a r	
21/185	· · · · · {for gravity}	21/3617 {using user history, behav	
21/188	{for accumulated errors, e.g. by coupling	or preferences, e.g. predic	ted or inferred
	inertial systems with absolute positioning	from previous use or curre	
	systems}	21/362 {received from an externa	
21/20	Instruments for performing navigational	application, e.g. PDA, mo	bile phone or
	calculations (<u>G01C 21/24</u> , <u>G01C 21/26</u> take precedence)	calendar application} 21/3623 {using a camera or code re	ander en for
21/203	• { specially adapted for water-borne vessels }	21/3623 {using a camera or code re- optical or magnetic codes	
21/206	 (specially adapted for indoor navigation)	-F or magnetic codes	•
21/22	• Plotting boards		
21/24	specially adapted for cosmonautical navigation		

21/3626			
21/3020	• • • {Details of the output of route guidance	21/3697	• • • • {Output of additional, non-guidance
	instructions (traffic control systems for road		related information, e.g. low fuel level
	vehicles involving transmission of navigation		(<u>G01C 21/3679</u> takes precedence)}
	instructions to the vehicle G08G 1/0968)}	21/38	 {Electronic maps specially adapted for navigation;
21/3629	• • • • {Guidance using speech or audio output,		Updating thereof}
	e.g. text-to-speech (text to speech systems	21/3804	 {Creation or updating of map data}
	<u>per se</u> <u>G10L 13/00</u>)}	21/3807	• • {characterised by the type of data}
21/3632	• • • • {Guidance using simplified or	21/3811	• • • {Point data, e.g. Point of Interest [POI]}
	iconic instructions, e.g. using arrows	21/3815	{Road data}
	$(\underline{\text{G01C }21/365} \text{ takes precedence})$	21/3819	• • • • {Road shape data, e.g. outline of a route}
21/3635	• • • • Guidance using 3D or perspective road	21/3822	• • • • {Road feature data, e.g. slope data}
	maps}	21/3826	{Terrain data}
21/3638	• • • • • {including 3D objects and buildings	21/383	{Indoor data}
	(three dimensional [3D] modelling,	21/3833	{characterised by the source of data}
	e.g. data description of 3D objects	21/3837	{Data obtained from a single source}
	<u>G06T 17/00</u> ; geographic models		
	<u>G06T 17/05</u>)}	21/3841	{Data obtained from two or more sources,
21/3641	• • • • {Personalized guidance, e.g. limited	21/2044	e.g. probe vehicles}
	guidance on previously travelled routes}	21/3844	{Data obtained from position sensors only,
21/3644	• • • • {Landmark guidance, e.g. using POIs or	21/2040	e.g. from inertial navigation}
	conspicuous other objects}	21/3848	• • • {Data obtained from both position sensors
21/3647	• • • • Guidance involving output of stored or	21/2052	and additional sensors}
	live camera images or video streams}	21/3852	• • • • {Data derived from aerial or satellite
21/365	• • • • Guidance using head up displays or		images}
	projectors, e.g. virtual vehicles or arrows	21/3856	• • • {Data obtained from user input}
	projected on the windscreen or on the road	21/3859	• • • {Differential updating map data}
	itself}	21/3863	• • {Structures of map data}
21/3652	• • • • Guidance using non-audiovisual output,	21/3867	• • • {Geometry of map features, e.g. shape points,
	e.g. tactile, haptic or electric stimuli}		polygons or for simplified maps}
21/3655	• • • • {Timing of guidance instructions}	21/387	• • • {Organisation of map data, e.g. version
21/3658	• • • • {Lane guidance}		management or database structures}
21/3661	• • • • {Guidance output on an external device,	21/3874	{Structures specially adapted for data
	e.g. car radio}	24/2070	searching and retrieval}
21/3664	• • • • {Details of the user input interface,	21/3878	• • • • {Hierarchical structures, e.g. layering}
	e.g. buttons, knobs or sliders, including	21/2001	
		21/3881	{Tile-based structures}
	those provided on a touch screen; remote	21/3885	• • {Transmission of map data to client devices;
24/24/2	those provided on a touch screen; remote controllers; input using gestures}	21/3885	• • {Transmission of map data to client devices; Reception of map data by client devices}
21/3667	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614		. {Transmission of map data to client devices; Reception of map data by client devices}. {Transmission of selected map data, e.g.
21/3667	those provided on a touch screen; remote controllers; input using gestures} • • • {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or	21/3885 21/3889	 . {Transmission of map data to client devices; Reception of map data by client devices} . {Transmission of selected map data, e.g. depending on route}
	those provided on a touch screen; remote controllers; input using gestures} • • • {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)}	21/3885	 . {Transmission of map data to client devices; Reception of map data by client devices} . {Transmission of selected map data, e.g. depending on route} . {Transmission of map data from distributed
21/3667 21/367	those provided on a touch screen; remote controllers; input using gestures} • • • {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} • • • {Details, e.g. road map scale, orientation,	21/3885 21/3889 21/3893	 . {Transmission of map data to client devices; Reception of map data by client devices} . {Transmission of selected map data, e.g. depending on route} . {Transmission of map data from distributed sources, e.g. from roadside stations}
	those provided on a touch screen; remote controllers; input using gestures} • • • • {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} • • • • {Details, e.g. road map scale, orientation, zooming, illumination, level of detail,	21/3885 21/3889	 . {Transmission of map data to client devices; Reception of map data by client devices} . {Transmission of selected map data, e.g. depending on route} . {Transmission of map data from distributed sources, e.g. from roadside stations} . {Transmission of map data from central
	those provided on a touch screen; remote controllers; input using gestures} • • • • {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} • • • • • {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of	21/3885 21/3889 21/3893	 . {Transmission of map data to client devices; Reception of map data by client devices} . {Transmission of selected map data, e.g. depending on route} . {Transmission of map data from distributed sources, e.g. from roadside stations}
21/367	those provided on a touch screen; remote controllers; input using gestures} • • • {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} • • • • {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker}	21/3885 21/3889 21/3893 21/3896	 {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases}
	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data	21/3885 21/3889 21/3893	 {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by
21/367 21/3673	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names}	21/3885 21/3889 21/3893 21/3896	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid
21/3677 21/3673 21/3676	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map}	21/3885 21/3889 21/3893 21/3896 22/00	 {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers
21/367 21/3673	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map} {Retrieval, searching and output of POI	21/3885 21/3889 21/3893 21/3896 22/00	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles}
21/3677 21/3673 21/3676	those provided on a touch screen; remote controllers; input using gestures} • • • {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} • • • {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} • • • • {Labelling using text of road map data items, e.g. road names, POI names} • • • • {Overview of the route on the road map} • • • • {Retrieval, searching and output of POI information, e.g. hotels, restaurants,	21/3885 21/3889 21/3893 21/3896 22/00 22/002 22/004	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts }
21/3677 21/3673 21/3676	those provided on a touch screen; remote controllers; input using gestures} • • • {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} • • • {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} • • • • {Labelling using text of road map data items, e.g. road names, POI names} • • • • {Overview of the route on the road map} • • • • {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities	21/3885 21/3889 21/3893 21/3896 22/00 22/002 22/004 22/006	 {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers {for cycles} {for golf carts} {Pedometers}
21/3673 21/3673 21/3676 21/3679	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map} {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)}	21/3885 21/3889 21/3893 21/3896 22/00 22/002 22/004 22/006 22/008	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts } . {Pedometers} . {for skates}
21/3677 21/3673 21/3676	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map} {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)} {output of POI information on a road	21/3885 21/3889 21/3893 21/3896 22/00 22/002 22/004 22/006	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts } . {Pedometers} . {for skates} . by conversion into electric waveforms and
21/3673 21/3673 21/3676 21/3679	those provided on a touch screen; remote controllers; input using gestures} • • • {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} • • • {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} • • • • {Labelling using text of road map data items, e.g. road names, POI names} • • • • {Overview of the route on the road map} • • • • {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)} • • • • {output of POI information on a road map (G01C 21/3614, G01C 21/3685 take	21/3885 21/3889 21/3893 21/3896 22/00 22/002 22/004 22/006 22/008	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts } . {Pedometers} . {for skates} . by conversion into electric waveforms and subsequent integration, e.g. using tachometer
21/3673 21/3673 21/3676 21/3679 21/3682	those provided on a touch screen; remote controllers; input using gestures} • • {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} • • • {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} • • • • {Labelling using text of road map data items, e.g. road names, POI names} • • • • {Overview of the route on the road map} • • • • {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)} • • • • {output of POI information on a road map (G01C 21/3614, G01C 21/3685 take precedence)}	21/3885 21/3889 21/3893 21/3896 22/00 22/002 22/004 22/006 22/008	 {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers {for cycles} {for golf carts} {Pedometers} {for skates} by conversion into electric waveforms and subsequent integration, e.g. using tachometer generator {(G01C 22/002, G01C 22/004,
21/3673 21/3676 21/3679 21/3682 21/3685	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map} {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)} {output of POI information on a road map (G01C 21/3614, G01C 21/3685 take precedence)} {the POI's being parking facilities}	21/3885 21/3889 21/3893 21/3896 22/00 22/002 22/004 22/006 22/008 22/02	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts} . {Pedometers} . {for skates} . by conversion into electric waveforms and subsequent integration, e.g. using tachometer generator {(G01C 22/002, G01C 22/004, G01C 22/006 take precedence)}
21/3673 21/3673 21/3676 21/3679 21/3682	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map} {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)} {output of POI information on a road map (G01C 21/3614, G01C 21/3685 take precedence)} {the POI's being parking facilities} {Systems comprising multiple parts or	21/3885 21/3889 21/3893 21/3896 22/00 22/002 22/004 22/006 22/008	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts } . {Pedometers} . {for skates} . by conversion into electric waveforms and subsequent integration, e.g. using tachometer generator {(G01C 22/002, G01C 22/004,
21/3673 21/3676 21/3679 21/3682 21/3685	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map} {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)} {output of POI information on a road map (G01C 21/3614, G01C 21/3685 take precedence)} {the POI's being parking facilities} {Systems comprising multiple parts or multiple output devices (not client-server),	21/3885 21/3889 21/3893 21/3896 22/00 22/002 22/004 22/006 22/008 22/02	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts} . {Pedometers} . {for skates} . by conversion into electric waveforms and subsequent integration, e.g. using tachometer generator {(G01C 22/002, G01C 22/004, G01C 22/004, G01C 22/006 take precedence)} . {Differential odometers}
21/3673 21/3676 21/3679 21/3682 21/3685	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map} {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)} {output of POI information on a road map (G01C 21/3614, G01C 21/3685 take precedence)} {the POI's being parking facilities} {Systems comprising multiple parts or multiple output devices (not client-server), e.g. detachable faceplates, key fobs or	21/3885 21/3889 21/3896 22/00 22/002 22/004 22/006 22/008 22/02 22/025	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts } . {Pedometers} . {for skates} . by conversion into electric waveforms and subsequent integration, e.g. using tachometer generator {(G01C 22/002, G01C 22/004, G01C 22/006 take precedence)} {Differential odometers} Combined instruments indicating more than one navigational value, e.g. for aircraft; Combined
21/3673 21/3676 21/3679 21/3682 21/3685 21/3688	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map} {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)} {output of POI information on a road map (G01C 21/3614, G01C 21/3685 take precedence)} {Systems comprising multiple parts or multiple output devices (not client-server), e.g. detachable faceplates, key fobs or multiple output screens}	21/3885 21/3889 21/3896 22/00 22/002 22/004 22/006 22/008 22/02 22/025	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts} . {Pedometers} . {for skates} . by conversion into electric waveforms and subsequent integration, e.g. using tachometer generator {(G01C 22/002, G01C 22/004, G01C 22/006 take precedence)} {Differential odometers} Combined instruments indicating more than one navigational value, e.g. for aircraft; Combined measuring devices for measuring two or more
21/3673 21/3676 21/3679 21/3682 21/3685	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map} {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)} {output of POI information on a road map (G01C 21/3614, G01C 21/3685 take precedence)} {Systems comprising multiple parts or multiple output devices (not client-server), e.g. detachable faceplates, key fobs or multiple output screens} {Retrieval, searching and output of	21/3885 21/3889 21/3896 22/00 22/002 22/004 22/006 22/008 22/02 22/025	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts} . {Pedometers} . {for skates} . by conversion into electric waveforms and subsequent integration, e.g. using tachometer generator {(G01C 22/002, G01C 22/004, G01C 22/006 take precedence)} . {Differential odometers} Combined instruments indicating more than one navigational value, e.g. for aircraft; Combined measuring devices for measuring two or more variables of movement, e.g. distance, speed or
21/3673 21/3676 21/3679 21/3682 21/3685 21/3688	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map} {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)} {output of POI information on a road map (G01C 21/3614, G01C 21/3685 take precedence)} {Systems comprising multiple parts or multiple output devices (not client-server), e.g. detachable faceplates, key fobs or multiple output screens} {Retrieval, searching and output of information related to real-time traffic,	21/3885 21/3889 21/3893 21/3896 22/00 22/002 22/004 22/006 22/008 22/02 22/025 23/00	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts} . {Pedometers} . {for skates} . by conversion into electric waveforms and subsequent integration, e.g. using tachometer generator {(G01C 22/002, G01C 22/004, G01C 22/006 take precedence)} . {Differential odometers} Combined instruments indicating more than one navigational value, e.g. for aircraft; Combined measuring devices for measuring two or more variables of movement, e.g. distance, speed or acceleration
21/3673 21/3676 21/3679 21/3682 21/3685 21/3688	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map} {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)} {output of POI information on a road map (G01C 21/3614, G01C 21/3685 take precedence)} {the POI's being parking facilities} {Systems comprising multiple parts or multiple output devices (not client-server), e.g. detachable faceplates, key fobs or multiple output screens} {Retrieval, searching and output of information related to real-time traffic, weather, or environmental conditions	21/3885 21/3889 21/3896 22/00 22/002 22/004 22/006 22/008 22/02 22/025	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts} . {Pedometers} . {for skates} . by conversion into electric waveforms and subsequent integration, e.g. using tachometer generator {(G01C 22/002, G01C 22/004, G01C 22/006 take precedence)} . {Differential odometers} Combined instruments indicating more than one navigational value, e.g. for aircraft; Combined measuring devices for measuring two or more variables of movement, e.g. distance, speed or acceleration . {Flight directors (indicating arrangements specially
21/3673 21/3676 21/3679 21/3682 21/3685 21/3688	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map} {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)} {output of POI information on a road map (G01C 21/3614, G01C 21/3685 take precedence)} {the POI's being parking facilities} {Systems comprising multiple parts or multiple output devices (not client-server), e.g. detachable faceplates, key fobs or multiple output screens} {Retrieval, searching and output of information related to real-time traffic, weather, or environmental conditions (arrangements for giving variable traffic	21/3885 21/3889 21/3893 21/3896 22/00 22/002 22/004 22/006 22/008 22/02 22/025 23/00	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts} . {Pedometers} . {for skates} . by conversion into electric waveforms and subsequent integration, e.g. using tachometer generator {(G01C 22/002, G01C 22/004, G01C 22/006 take precedence)} . {Differential odometers} Combined instruments indicating more than one navigational value, e.g. for aircraft; Combined measuring devices for measuring two or more variables of movement, e.g. distance, speed or acceleration
21/3673 21/3676 21/3679 21/3682 21/3685 21/3688	those provided on a touch screen; remote controllers; input using gestures} {Display of a road map (G01C 21/3614 takes precedence; guidance using 3D or perspective road maps G01C 21/3635)} {Details, e.g. road map scale, orientation, zooming, illumination, level of detail, scrolling of road map or positioning of current position marker} {Labelling using text of road map data items, e.g. road names, POI names} {Overview of the route on the road map} {Retrieval, searching and output of POI information, e.g. hotels, restaurants, shops, filling stations, parking facilities (G01C 21/3611 takes precedence)} {output of POI information on a road map (G01C 21/3614, G01C 21/3685 take precedence)} {the POI's being parking facilities} {Systems comprising multiple parts or multiple output devices (not client-server), e.g. detachable faceplates, key fobs or multiple output screens} {Retrieval, searching and output of information related to real-time traffic, weather, or environmental conditions	21/3885 21/3889 21/3893 21/3896 22/00 22/002 22/004 22/006 22/008 22/02 22/025 23/00	 . {Transmission of map data to client devices; Reception of map data by client devices} {Transmission of selected map data, e.g. depending on route} {Transmission of map data from distributed sources, e.g. from roadside stations} {Transmission of map data from central databases} Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers . {for cycles} . {for golf carts} . {Pedometers} . {for skates} . by conversion into electric waveforms and subsequent integration, e.g. using tachometer generator {(G01C 22/002, G01C 22/004, G01C 22/006 take precedence)} . {Differential odometers} Combined instruments indicating more than one navigational value, e.g. for aircraft; Combined measuring devices for measuring two or more variables of movement, e.g. distance, speed or acceleration . {Flight directors (indicating arrangements specially

25/00 Manufacturing, calibrating, cleaning, or repairing instruments or devices referred to in the other groups of this subclass (testing, calibrating or

compensating compasses G01C 17/38)

25/005 • {initial alignment, calibration or starting-up of inertial devices}