

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 725

DATE: AUGUST 1, 2019

PROJECT MP0447

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Titles Changed:	G01C	SUBCLASS
	G01C	1/00, 1/06, 1/10, 1/12, 1/14
	G01C	3/00, 3/04, 3/10, 3/22, 3/24, 3/26
	G01C	5/00, 5/02, 5/06
	G01C	7/00, 7/06
	G01C	9/00, 9/10, 9/12
	G01C	11/00, 11/10, 11/26
	G01C	13/00
	G01C	15/14
	G01C	17/00, 17/34
	G01C	19/065, 19/08, 19/16, 19/18, 19/26, 19/32, 19/60, 19/66, 19/665
	G01C	21/00, 21/02, 21/04, 21/22, 21/36, 21/3602, 21/3608
	G01C	22/00, 22/004
	G01C	23/005
	G01C	25/00
Notes Deleted:	G01C	19/56
DEFINITIONS:		
Definitions New:	G01C	1/12, 1/14
	G01C	15/14
	G01C	19/26
Definitions Modified:	G01C	SUBCLASS
	G01C	1/00
	G01C	3/00
	G01C	3/10
	G01C	3/22
	G01C	3/24
	G01C	3/26
	G01C	5/06, 5/005
	G01C	7/00
	G01C	9/00
	G01C	11/00

CPC NOTICE OF CHANGES 725

DATE: AUGUST 1, 2019

PROJECT MP0447

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	G01C	15/00
	G01C	17/00
	G01C	19/30
	G01C	19/32
	G01C	21/00
	G01C	22/00

No other subclasses/groups are impacted by this Notice of Changes.

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)

CPC NOTICE OF CHANGES 725

DATE: AUGUST 1, 2019

PROJECT MP0447

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS G01C - MEASURING DISTANCES, LEVELS OR BEARINGS; SURVEYING; NAVIGATION; GYROSCOPIC INSTRUMENTS; PHOTOGRAMMETRY OR VIDEOGRAMMETRY (measuring liquid level G01F; 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 G01S)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	G01C		MEASURING DISTANCES, LEVELS OR BEARINGS; SURVEYING; NAVIGATION; GYROSCOPIC INSTRUMENTS; PHOTOGRAMMETRY OR VIDEOGRAMMETRY (measuring liquid level G01F; 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 G01S)	
M	G01C 1/00	0	Measuring angles	
M	G01C 1/06	2	Arrangements for reading scales	
M	G01C 1/10	2	including an artificial horizon (G01C 1/14 takes precedence)	
M	G01C 1/12	3	with a stabilised mirror	
M	G01C 1/14	2	Periscopic sextants	
M	G01C 3/00	0	Measuring distances in line of sight; Optical rangefinders (tapes, chains or wheels for measuring length G01B3/00; active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves, G01S17/48)	
M	G01C 3/04	2	Adaptation of rangefinders for combination with telescopes or binoculars	
M	G01C 3/10	1	using a parallactic triangle with variable angles and a base of fixed length in the observation station, e.g. in the instrument	
M	G01C 3/22	1	using a parallactic triangle with variable angles and a base of fixed length at, near, or formed by the object	
M	G01C 3/24	1	using a parallactic triangle with fixed angles and a base of variable length in the observation station, e.g. in the instrument	

CPC NOTICE OF CHANGES 725

DATE: AUGUST 1, 2019

PROJECT MP0447

M	G01C 3/26	1	using a parallax triangle with fixed angles and a base of variable length, at, near, or formed by the object	
M	G01C 5/00	0	Measuring height; Measuring distances transverse to line of sight; Levelling between separated points; Surveyors' levels (G01C 3/20, G01C 3/30 take precedence)	
M	G01C 5/02	1	involving automatic stabilisation of the line of sight	
M	G01C 5/06	1	by using barometric means	
M	G01C 7/00	0	Tracing profiles (by photogrammetry or videogrammetry G01C 11/00)	
M	G01C 7/06	1	of cavities, e.g. tunnels	
M	G01C9/00	0	Measuring inclination, e.g. by clinometers, by levels	
M	G01C9/10	1	by using rolling bodies {, e.g. spheres, cylinders, mercury droplets}	
M	G01C9/12	1	by using a single pendulum {plumb lines G01C 15/10}	
M	G01C 11/00	0	Photogrammetry or videogrammetry, e.g. stereogrammetry; Photographic surveying	
M	G01C 11/10	4	using computers to control the position of the pictures	
M	G01C 11/26	4	using computers to control the position of the pictures	
M	G01C 13/00	0	Surveying specially adapted to open water, e.g. sea, lake, river or canal (liquid level metering G01F)	
M	G01C 15/14	1	Artificial horizons	
M	G01C 17/00	0	Compasses; Devices for ascertaining true or magnetic north for navigation or surveying purposes (using gyroscopic effect G01C 19/00)	
M	G01C 17/34	1	Sun- or astro-compasses	
M	G01C 19/065	4	{Measurement or control of angular velocity, specifically adapted to gyrorotors }	
M	G01C 19/08	4	electrically driven (G01C 19/14 takes precedence)	
M	G01C 19/16	3	Suspensions; Bearings	
M	G01C 19/18	4	providing movement of rotor with respect to its rotational axes (G01C 19/20, G01C 19/24 take precedence)	
M	G01C 19/26	3	Caging, i.e. immobilising moving parts, e.g. for transport	
M	G01C 19/32	3	Indicating or recording means specially adapted for rotary gyroscopes	
M	G01C 19/60	2	Electronic or nuclear magnetic resonance gyrometers	
M	G01C 19/66	3	Ring laser gyrometers	

CPC NOTICE OF CHANGES 725

DATE: AUGUST 1, 2019

PROJECT MP0447

M	G01C 19/665	5	{control of the cavity }	
M	G01C21/00	0	Navigation; Navigational instruments not provided for in preceding groups G01C 1/00-G01C 19/00 (measuring distance traversed on the ground by a vehicle G01C 22/00; control of position, course, altitude or attitude of vehicles G05D 1/00; traffic control systems for road vehicles involving transmission of navigation instructions to the vehicle G08G 1/0968)	
M	G01C21/02	1	by astronomical means (G01C 21/24, G01C 21/26 take precedence)	
M	G01C21/04	1	by terrestrial means (G01C 21/24, G01C 21/26 take precedence)	
M	G01C21/22	2	Plotting boards	
M	G01C21/36	3	Input/output arrangements for on-board computers	
M	G01C21/3602	4	{Input other than that of destination using image analysis, e.g. detection of road signs, lanes, buildings, real preceding vehicles using a camera }	
M	G01C21/3608	5	{using speech input, e.g. using speech recognition }	
M	G01C 22/00	0	Measuring distance traversed on the ground by vehicles, persons, animals or other moving solid bodies, e.g. using odometers, using pedometers	
M	G01C 22/004	1	{for golf carts }	
M	G01C 23/005	1	{Flight directors (indicating arrangements specially adapted for rotary gyroscopes G01C 19/32)}	
M	G01C 25/00	0	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)	

*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:

CPC NOTICE OF CHANGES 725

DATE: AUGUST 1, 2019

PROJECT MP0447

- **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 finalisation 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.

CPC NOTICE OF CHANGES 725

DATE: AUGUST 1, 2019

PROJECT MP0447

B. New, Modified or Deleted Note(s)

SUBCLASS G01C - MEASURING DISTANCES, LEVELS OR BEARINGS; SURVEYING; NAVIGATION; GYROSCOPIC INSTRUMENTS; PHOTOGRAMMETRY OR VIDEOGRAMMETRY (measuring liquid level G01F; 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 G01S)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
D	G01C19/56	Attention is drawn to the Notes following the titles of class B81 and subclass B81B relating to "microstructural devices" and "microstructural systems"	

*N = new note, M = modified note, D = deleted note

NOTE: The "Location" column only requires the symbol PRIOR to the location of the note. No further directions such as "before" or "after" are required.

DATE: AUGUST 1, 2019

PROJECT MP0447

2. A. DEFINITIONS (new)

G01C1/12

with a stabilised mirror

References

Informative references

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

Tilt compensation in general

G12B5/00

G01C1/14

Periscopic sextants

References

Informative references

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

Periscopes in general

G02B23/08

G01C15/14

Artificial horizons

References

DATE: AUGUST 1, 2019

PROJECT MP0447

Informative references

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

Tilt compensation in general	G12B5/00
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G01C19/26

Caging, i.e. immobilising moving parts, e.g. for transport

References

Informative references

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

Applicable to instruments in general	G01D11/20
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CPC NOTICE OF CHANGES 725

DATE: AUGUST 1, 2019

PROJECT MP0447

2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
G01C	Limiting references	Measuring liquid level G01F Traffic control systems G08G	Delete the following row: Traffic control systems G08G Add the following row: analogous arrangements using other waves G01S
G01C1/00	Limiting references	Measuring angles or tapers of objects G01B	Delete the entire section
G01C3/00	Limiting references	Tapes, chains or wheels for measuring length G01B	Replace with: Tapes, chains or wheels for measuring length G01B3/00
G01C3/00	Informative references	Range finding by image processing G06F15/70	Replace invalid reference to G06F15/70 with G06T 7/60
G01C3/10	Limiting references	Active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S17/48	Delete entire section
G01C3/10	Informative references		ADD: Active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S17/48
G01C3/22	Limiting references	Active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S17/48	Delete entire section
G01C3/22	Informative references		ADD: Active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S17/48
G01C3/24	Limiting references	Active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S17/48	Delete entire section

CPC NOTICE OF CHANGES 725

DATE: AUGUST 1, 2019

PROJECT MP0447

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
G01C3/24	Informative references		ADD: Active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S17/48
G01C3/26	Limiting references	Active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S17/48	Delete entire section
G01C3/26	Informative references		ADD: Active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S17/48
G01C5/06	Informative references	Wrist watches with external data detectors G04G1/04	Delete row Wrist watches with external data detectors G04G1/04
G01C5/06	Application-oriented references		ADD Mechanical watches with attached measuring instruments, e.g. pedometer, G04B47/06 Electronic time-pieces with integrated detectors of external physical values G04G21/02
G01C5/005	Limiting references		ADD: involving automatic stabilisation of the line of sight G01C5/02 by using barometric means G01C5/06
G01C7/00	Limiting references	Tracing profiles using photogrammetry G01C11/00	Replace with: Tracing profiles using photogrammetry or videogrammetry G01C11/00
G01C9/00	Limiting references	Switches operated by inclination or orientation H01H35/02	Delete the entire section
G01C9/00	Informative references		Add: Switches operated by inclination or orientation H01H35/02

CPC NOTICE OF CHANGES 725

DATE: AUGUST 1, 2019

PROJECT MP0447

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>				
G01C9/10	Limiting references	Tilting mercury container switches H01H2920	Delete the entire section				
G01C9/10	Informative references		Add: Tilting mercury container switches H01H2920				
G01C11/00	Special rules of classification	IPC group G01C11/36 is not used. Subject matter covered by this group is classified in G01C 11/00-G01C 11/34.	Delete the entire section				
G01C15/00	Limiting references	Measuring angles G01C 1/00 Surveying specially adapted to open water, e.g. sea, lake, river, canal G01C 13/00	Delete the entire section				
G01C17/00	Limiting references	Devices for finding North using gyroscopic effect G01C 19/34, G01C 19/36, G01C 19/38	Update the reference as follows: Using gyroscopic effect, e.g. devices for finding North G01C19/00, e.g. G01C 19/34, G01C 19/36, G01C 19/38				
G01C19/30	Synonyms and Keywords	In patent documents the expression/word "Torquer" is often used with the meaning erection devices, i.e. devices for restoring rotor axis to a desired position. The term "Rebalance" is also often used instead of "Erection"	Delete the existing text and replace with the following: <i>In patent documents, the word/expression in the first column is often used instead of the word/expression in the second column, which is used in the classification scheme of this place:</i> <table border="1" data-bbox="1052 1171 1550 1203"> <tr> <td>Rebalance</td> <td>Erection</td> </tr> </table> <i>In patent documents, the following words/expressions are often used with the meaning indicated:</i> <table border="1" data-bbox="1052 1329 1550 1417"> <tr> <td>Torquer</td> <td>Erection devices, i.e. devices for restoring rotor axis to a desired position</td> </tr> </table>	Rebalance	Erection	Torquer	Erection devices, i.e. devices for restoring rotor axis to a desired position
Rebalance	Erection						
Torquer	Erection devices, i.e. devices for restoring rotor axis to a desired position						
G01C19/32	Informative references	Measuring not specially adapted for a specific variable; arrangements for measuring two or more variables not covered in a single other subclass; tariff metering apparatus; measuring or testing not otherwise provided for G01D	Delete the row and replace it with the following: Indicating or recording measured values in general G01D 7/00, G01D 9/00				
G01C21/00	Limiting references	Measuring linear or angular speed or acceleration G01P Traffic control systems G08G 1/00	Replace with: traffic control systems for road vehicles involving transmission of navigation instructions to the vehicle G08G 1/0968				

CPC NOTICE OF CHANGES 725

DATE: AUGUST 1, 2019

PROJECT MP0447

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
G01C21/00	Informative references		ADD: Measuring linear or angular speed or acceleration G01P Traffic control systems G08G 1/00
G01C22/00	Informative references		Add the following reference to the table: Counting mechanisms per se G06M

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.