

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 896

DATE: AUGUST 1, 2020

PROJECT RP0331

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>SCHEME:</b>		
Symbols New:	G01C	21/1652, 21/1654, 21/1656, 21/166, 21/183, 21/185, 21/188, 21/38, 21/3804, 21/3807, 21/3811, 21/3815, 21/3819, 21/3822, 21/3826, 21/383, 21/3833, 21/3837, 21/3841, 21/3844, 21/3848, 21/3852, 21/3856, 21/3859, 21/3863, 21/3867, 21/387, 21/3874, 21/3878, 21/3881, 21/3885, 21/3889, 21/3893, 21/3896
Titles Changed:	G01C	21/00, 21/3697
	G08G	1/0968
Warnings New:	G01C	21/00, 21/16, 21/165, 21/1652, 21/1654, 21/1656, 21/166, 21/183, 21/185, 21/188, 21/32, 21/38
Notes Deleted:	G01C	21/165
<b>DEFINITIONS:</b>		
Definitions Modified:	G01C	21/3679, 21/3697

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):

G08G

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 896

DATE: AUGUST 1, 2020

PROJECT RP0331

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>Typ e*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified) “CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
C	G01C 21/00	0	Navigation; Navigational instruments not provided for in groups G01C1/00 - G01C19/00 (measuring distance traversed on the ground by a vehicle G01C22/00; control of position, course, altitude or attitude of vehicles G05D1/00; traffic control systems for road vehicles involving transmission of navigation instructions to the vehicle G08G1/0968)	G01C21/00, G01C21/38, G01C21/3804, G01C21/3807, G01C21/3811, G01C21/3815, G01C21/3819, G01C21/3822, G01C21/3826, G01C21/383, G01C21/3833, G01C21/3837, G01C21/3841, G01C21/3844, G01C21/3848, G01C21/3852, G01C21/3856, G01C21/3859, G01C21/3863, G01C21/3867, G01C21/387, G01C21/3874, G01C21/3878, G01C21/3881, G01C21/3885, G01C21/3889, G01C21/3893, G01C21/3896
C	G01C 21/16	3	by integrating acceleration or speed, i.e. inertial navigation	G01C 21/16, G01C 21/166, G01C 21/183, G01C 21/185, G01C 21/188
C	G01C 21/165	4	{combined with non-inertial navigation instruments}	G01C 21/165, G01C 21/1652, G01C 21/1654, G01C 21/1656

CPC NOTICE OF CHANGES 896

DATE: AUGUST 1, 2020

PROJECT RP0331

<u>Typ e*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified) “CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
N	G01C 21/1652	5	{with ranging devices, e.g. LIDAR or RADAR}	
N	G01C 21/1654	5	{with electromagnetic compass}	
N	G01C 21/1656	5	{with passive imaging devices, e.g. cameras}	
N	G01C 21/166	4	{Mechanical, construction or arrangement details of inertial navigation systems}	
U	G01C 21/18	4	Stabilised platforms, e.g. by gyroscope	
N	G01C 21/183	4	{Compensation of inertial measurements, e.g. for temperature effects}	
N	G01C 21/185	5	{for gravity}	
N	G01C 21/188	5	{for accumulated errors, e.g. by coupling inertial systems with absolute positioning systems}	
C	G01C 21/32	4	Structuring or formatting of map data	G01C 21/32, G01C 21/38, G01C21/3804, G01C21/3807, G01C21/3811, G01C21/3815, G01C21/3819, G01C21/3822, G01C21/3826, G01C21/383, G01C21/3833, G01C21/3837, G01C21/3841, G01C21/3844, G01C21/3848, G01C21/3852, G01C21/3856, G01C21/3859, G01C21/3863, G01C21/3867, G01C21/387, G01C21/3874, G01C21/3878, G01C21/3881, G01C21/3885, G01C21/3889,

CPC NOTICE OF CHANGES 896

DATE: AUGUST 1, 2020

PROJECT RP0331

<u>Typ e*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified) “CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
				G01C21/3893, G01C21/3896
M	G01C 21/3697	4	{Output of additional, non-guidance related information, e.g. low fuel level (G01C 21/3679 takes precedence)}	
N	G01C 21/38	1	{Electronic maps specially adapted for navigation; Updating thereof}	
N	G01C 21/3804	2	{Creation or updating of map data}	
N	G01C 21/3807	3	{characterised by the type of data}	
N	G01C 21/3811	4	{Point data, e.g. Point of Interest [POI]}	
N	G01C 21/3815	4	{Road data}	
N	G01C 21/3819	5	{Road shape data, e.g. outline of a route}	
N	G01C 21/3822	5	{Road feature data, e.g. slope data}	
N	G01C 21/3826	4	{Terrain data}	
N	G01C 21/383	4	{Indoor data}	
N	G01C 21/3833	3	{characterised by the source of data}	
N	G01C 21/3837	4	{Data obtained from a single source}	
N	G01C 21/3841	4	{Data obtained from two or more sources, e.g. probe vehicles}	
N	G01C 21/3844	4	{Data obtained from position sensors only, e.g. from inertial navigation}	
N	G01C 21/3848	4	{Data obtained from both position sensors and additional sensors}	
N	G01C 21/3852	4	{Data derived from aerial or satellite images}	
N	G01C 21/3856	4	{Data obtained from user input}	
N	G01C 21/3859	3	{Differential updating map data}	

CPC NOTICE OF CHANGES 896

DATE: AUGUST 1, 2020

PROJECT RP0331

<b><u>Typ e*</u></b>	<b><u>Symbol</u></b>	<b><u>Indent Level Number of dots (e.g. 0, 1, 2)</u></b>	<b><u>Title (new or modified) “CPC only” text should normally be enclosed in {curly brackets}**</u></b>	<b><u>Transferred to#</u></b>
N	G01C 21/3863	2	{Structures of map data}	
N	G01C 21/3867	3	{Geometry of map features, e.g. shape points, polygons or for simplified maps}	
N	G01C 21/387	3	{Organisation of map data, e.g. version management or database structures}	
N	G01C 21/3874	4	{Structures specially adapted for data searching and retrieval}	
N	G01C 21/3878	4	{Hierarchical structures, e.g. layering}	
N	G01C 21/3881	4	{Tile-based structures}	
N	G01C 21/3885	2	{Transmission of map data to client devices; Reception of map data by client devices}	
N	G01C 21/3889	3	{Transmission of selected map data, e.g. depending on route}	
N	G01C 21/3893	3	{Transmission of map data from distributed sources, e.g. from roadside stations}	
N	G01C 21/3896	3	{Transmission of map data from central databases}	

CPC NOTICE OF CHANGES 896

DATE: AUGUST 1, 2020

PROJECT RP0331

**SUBCLASS G08G – TRAFFIC CONTROL SYSTEMS (guiding railway traffic, ensuring the safety of railway traffic B61L; arrangement of road signs or traffic signals E01F 9/00; radar or analogous systems, sonar systems, lidar systems specially adapted for traffic control G01S 13/91, G01S 15/88, G01S 17/88; {radar or analogous systems, sonar systems, lidar systems specially adapted for anti-collision purposes G01S 13/93, G01S 15/93, G01S 17/93})**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	G08G 1/0968	3	Systems involving transmission of navigation instructions to the vehicle	

\*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 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 896

DATE: AUGUST 1, 2020

PROJECT RP0331

B. New, Modified or Deleted Warning(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 Warning notice</u>	<u>New/Modified Warning notice</u>
N	G01C 21/00		Group G01C21/00 is impacted by reclassification into groups G01C21/38 - G01C21/3896. All groups listed in this Warning should be considered in order to perform a complete search.
N	G01C 21/16		Group G01C21/16 is impacted by reclassification into groups G01C21/166, G01C21/183, G01C21/185, and G01C21/188. Groups G01C21/16, G01C21/166, G01C21/183, G01C21/185, and G01C21/188 should be considered in order to perform a complete search.
N	G01C 21/165		Group G01C21/165 is impacted by reclassification into groups G01C21/1652, G01C21/1654, and G01C21/1656. Groups G01C21/165, G01C21/1652, G01C21/1654, and G01C21/1656 should be considered in order to perform a complete search.
N	G01C 21/1652		Group G01C21/1652 is incomplete pending reclassification of documents from group G01C21/165. Groups G01C21/165 and G01C21/1652 should be considered in order to perform a complete search.
N	G01C 21/1654		Group G01C21/1654 is incomplete pending reclassification of documents from group G01C21/165. Groups G01C21/165 and G01C21/1654 should be considered in order to perform a complete search.
N	G01C 21/1656		Group G01C21/1656 is incomplete pending reclassification of documents from group G01C21/165. Groups G01C21/165 and G01C21/1656 should be considered in order to perform a complete search.
N	G01C 21/166		Group G01C21/166 is incomplete pending reclassification of documents from group G01C21/16. Groups G01C21/16 and G01C21/166 should be considered in order to perform a complete search.
N	G01C 21/183		Group G01C21/183 is incomplete pending reclassification of documents from groups G01C21/16. Groups G01C21/16 and G01C21/183 should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 896

DATE: AUGUST 1, 2020

PROJECT RP0331

<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
N	G01C 21/185		Group G01C21/185 is incomplete pending reclassification of documents from groups G01C21/16. Groups G01C21/16 and G01C21/185 should be considered in order to perform a complete search.
N	G01C 21/188		Group G01C21/188 is incomplete pending reclassification of documents from groups G01C21/16. Groups G01C21/16 and G01C21/188 should be considered in order to perform a complete search.
N	G01C 21/32		Group G01C21/32 is impacted by reclassification into groups G01C21/38 - G01C21/3896. Groups G01C21/32 and G01C21/38 - G01C21/3896 should be considered in order to perform a complete search.
N	G01C 21/38		Groups G01C 21/38 - G01C 21/3896 are incomplete pending reclassification of documents from groups G01C 21/00 and G01C 21/32. Groups G01C 21/00, G01C 21/32, and G01C 21/38 - G01C 21/3896 should be considered in order to perform a complete search.

\*N = new warning, M = modified warning, D = deleted warning

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



CPC NOTICE OF CHANGES 896

DATE: AUGUST 1, 2020

PROJECT RP0331

C. 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	G01C 21/165	This group does not adequately <u>cover</u> all aspects of this subject; see also G01S19/49; G01S19/47.	

\*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.

## 2. A. DEFINITIONS (modified)

### G01C 21/3679

#### *Limiting references*

Replace: The existing Limiting references table row with the following new row.

Using character input or menus, e.g. menus of POIs	<a href="#">G01C 21/3611</a>
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### G01C 21/3697

Insert: The following new Limiting references section and table.

#### *Limiting references*

*This place does not cover:*

Retrieval, searching and output of POI information	<a href="#">G01C 21/3679</a>
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CPC NOTICE OF CHANGES 896

DATE: AUGUST 1, 2020

PROJECT RP0331

3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	G01C 21/00	G01C 21/00, G01C 21/38, G01C 21/3804, G01C 21/3807, G01C 21/3811, G01C 21/3815, G01C 21/3819, G01C 21/3822, G01C 21/3826, G01C 21/383, G01C 21/3833, G01C 21/3837, G01C 21/3841, G01C 21/3844, G01C 21/3848, G01C 21/3852, G01C 21/3856, G01C 21/3859, G01C 21/3863, G01C 21/3867, G01C 21/387, G01C 21/3874, G01C 21/3878, G01C 21/3881, G01C 21/3885, G01C 21/3889, G01C 21/3893, G01C 21/3896
C	G01C 21/16	G01C 21/16, G01C 21/166, G01C 21/183, G01C 21/185, G01C 21/188
C	G01C 21/165	G01C 21/165, G01C 21/1652, G01C 21/1654, G01C 21/1656
C	G01C 21/32	G01C 21/32, G01C 21/38, G01C 21/3804, G01C 21/3807, G01C 21/3811, G01C 21/3815, G01C 21/3819, G01C 21/3822, G01C 21/3826, G01C 21/383, G01C 21/3833, G01C 21/3837, G01C 21/3841, G01C 21/3844, G01C 21/3848, G01C 21/3852, G01C 21/3856, G01C 21/3859, G01C 21/3863, G01C 21/3867, G01C 21/387, G01C 21/3874, G01C 21/3878, G01C 21/3881, G01C 21/3885, G01C 21/3889, G01C 21/3893, G01C 21/3896

\* 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 finalisation projects.

CPC NOTICE OF CHANGES 896

DATE: AUGUST 1, 2020

PROJECT RP0331

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
G01C 21/1652	G01C 21/16	NEW
G01C 21/1654	G01C 21/16	NEW
G01C 21/1656	G01C 21/16	NEW
G01C 21/166	G01C 21/16	NEW
G01C 21/183	G01C 21/16	NEW
G01C 21/185	G01C 21/16	NEW
G01C 21/188	G01C 21/16	NEW
G01C 21/38	G01C 21/00	NEW
G01C 21/3804	G01C 21/00	NEW
G01C 21/3807	G01C 21/00	NEW
G01C 21/3811	G01C 21/00	NEW
G01C 21/3815	G01C 21/00	NEW
G01C 21/3819	G01C 21/00	NEW
G01C 21/3822	G01C 21/00	NEW
G01C 21/3826	G01C 21/00	NEW
G01C 21/383	G01C 21/00	NEW
G01C 21/3833	G01C 21/00	NEW
G01C 21/3837	G01C 21/00	NEW
G01C 21/3841	G01C 21/00	NEW
G01C 21/3844	G01C 21/00	NEW
G01C 21/3848	G01C 21/00	NEW
G01C 21/3852	G01C 21/00	NEW
G01C 21/3856	G01C 21/00	NEW
G01C 21/3859	G01C 21/00	NEW
G01C 21/3863	G01C 21/00	NEW
G01C 21/3867	G01C 21/00	NEW
G01C 21/387	G01C 21/00	NEW
G01C 21/3874	G01C 21/00	NEW
G01C 21/3878	G01C 21/00	NEW
G01C 21/3881	G01C 21/00	NEW
G01C 21/3885	G01C 21/00	NEW
G01C 21/3889	G01C 21/00	NEW
G01C 21/3893	G01C 21/00	NEW
G01C 21/3896	G01C 21/00	NEW

\*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.

CPC NOTICE OF CHANGES 896

DATE: AUGUST 1, 2020

PROJECT RP0331

- 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.