

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 676

DATE: MAY 1, 2019

PROJECT RP0248

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	G01S	13/9035, 2013/9041, 2013/907, 2013/9047, 2013/9052, 2013/9058, 2013/9064, 2013/9076, 2013/9082, 2013/9088
Symbols New:	G01S	13/895, 13/9004, 13/9019, 13/9021, 13/9027, 13/904, 13/9041, 13/9043, 13/9047, 13/9052, 13/9054, 13/9056, 13/9058, 13/9064, 13/9076, 13/9082, 13/9088, 13/9089, 13/9092, 13/917
Titles Changed:	G01S	13/90, 13/9017, 13/9023, 13/9029
Indents Changed:	G01S	13/9005, 13/9011, 13/9017, 13/9023, 13/9029
Warnings New:	G01S	13/89, 13/895, 13/90, 13/9004, 13/9019, 13/9021, 13/9023, 13/9027, 13/904, 13/9054, 13/9056, 13/9089, 13/9092, 13/91, 13/917
DEFINITIONS:		
Definitions New:	G01S	13/9023, 13/9029,
Definitions Modified:	G01S	13/91

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)

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2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)
- 3. REVISION CONCORDANCE LIST (RCL)
- 4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
- 5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)**SUBCLASS G01S – RADIO DIRECTION-FINDING; RADIO NAVIGATION; DETERMINING DISTANCE OR VELOCITY BY USE OF RADIO WAVES; LOCATING OR PRESENCE-DETECTING BY USE OF THE REFLECTION OR RERADIATION OF RADIO WAVES; ANALOGOUS ARRANGEMENTS USING OTHER WAVES**

<u>Type</u> *	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to</u> [#]
C	G01S 13/89	2	for mapping or imaging	G01S 13/89, G01S 13/895
N	G01S 13/895	3	{Side looking radar [SLR]}	
C	G01S 13/90	3	using synthetic aperture techniques {, e.g. synthetic aperture radar [SAR] techniques}	G01S 13/90, G01S 13/9004, G01S 13/9019, G01S 13/9021, G01S 13/9027, G01S 13/904, G01S 13/9054, G01S 13/9056, G01S 13/9089
N	G01S 13/9004	4	{SAR image acquisition techniques}	
M	G01S 13/9005	5	{with optical processing of the SAR signals}	
M	G01S 13/9011	5	{with frequency domain processing of the SAR signals in azimuth (G01S13/9005 takes precedence)}	
M	G01S 13/9017	5	{with time domain processing of the SAR signals in azimuth (G01S 13/9005 takes precedence)}	
N	G01S 13/9019	5	{Auto-focussing of the SAR signals}	
N	G01S 13/9021	4	{SAR image post-processing techniques}	
C	G01S 13/9023	5	{combined with interferometric techniques}	G01S 13/9023, G01S 13/9092
N	G01S 13/9027	5	{Pattern recognition for feature extraction}	
M	G01S 13/9029	5	{specially adapted for moving target detection within a single SAR image or within multiple SAR images taken at the same time}	
D	G01S 13/9035	4		<administrative transfer to G01S 13/904>
Q	G01S 13/904	4	{SAR modes}	G01S 13/904, G01S 13/9054, G01S 13/9056
N	G01S 13/9041	5	{Squint mode}	

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Type *	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
D	G01S 2013/9041	5		<administrative transfer to G01S 13/9041>
N	G01S 13/9043	5	{Forward-looking SAR}	
D	G01S 2013/907	5		<administrative transfer to G01S 13/9043>
N	G01S 13/9047	5	{Doppler beam sharpening mode}	
D	G01S 2013/9047	5		<administrative transfer to G01S 13/9047>
N	G01S 13/9052	5	{Spotlight mode}	
D	G01S 2013/9052	5		<administrative transfer to G01S 13/9052>
N	G01S 13/9054	5	{Stripmap mode}	
N	G01S 13/9056	5	{Scan SAR mode}	
N	G01S 13/9058	5	{Bistatic or multistatic SAR}	
D	G01S 2013/9058	5		<administrative transfer to G01S 13/9058>
N	G01S 13/9064	5	{Inverse SAR [ISAR]}	
D	G01S 2013/9064	5		<administrative transfer to G01S 13/9064>
N	G01S 13/9076	5	{Polarimetric features in SAR}	
D	G01S 2013/9076	5		<administrative transfer to G01S 13/9076>
N	G01S 13/9082	5	{Rotating SAR [ROSAR]}	
D	G01S 2013/9082	5		<administrative transfer to G01S 13/9082>
N	G01S 13/9088	5	{Circular SAR [CSAR, C-SAR]}	
D	G01S 2013/9088	5		<administrative transfer to G01S 13/9088>
N	G01S 13/9089	5	{SAR having an irregular aperture}	
N	G01S 13/9092	5	{combined with monopulse techniques}	
U	G01S 13/9094	4	{Theoretical aspects}	
C	G01S 13/91	2	for traffic control (G01S13/93 takes precedence)	G01S 13/91, G01S 13/917
U	G01S 2013/916	3	{Airport surface monitoring [ASDE]}	
N	G01S 13/917	3	{for marine craft or other waterborne vessels}	

*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; E= 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.

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- **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).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. 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 except “D” which requires only a symbol.
- #“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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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B. New, Modified or Deleted Warning notice(s)

SUBCLASS G01S – TITLE: RADIO DIRECTION-FINDING; RADIO NAVIGATION; DETERMINING DISTANCE OR VELOCITY BY USE OF RADIO WAVES; LOCATING OR PRESENCE-DETECTING BY USE OF THE REFLECTION OR RERADIATION OF RADIO WAVES; ANALOGOUS ARRANGEMENTS USING OTHER WAVES

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
NEW	G01S 13/89		Group G01S 13/89 is impacted by reclassification into group G01S 13/895. Groups G01S 13/89 and G01S 13/895 should be considered in order to perform a complete search.
NEW	G01S 13/895		Group G01S 13/895 is incomplete pending reclassification of documents from group G01S 13/89. Groups G01S 13/89 and G01S 13/895 should be considered in order to perform a complete search.
NEW	G01S 13/90		Group G01S 13/90 is impacted by reclassification into groups G01S 13/9004, G01S 13/9019, G01S 13/9021, G01S 13/9027, G01S 13/904 G01S 13/9054, G01S 13/9056 and G01S 13/9089. All groups listed in this Warning should be considered in order to perform a complete search.
NEW	G01S 13/9004		Group G01S 13/9004 is incomplete pending reclassification of documents from group G01S 13/90. Groups G01S 13/90 and G01S 13/9004 should be considered in order to perform a complete search.
NEW	G01S 13/9019		Group G01S 13/9019 is incomplete pending reclassification of documents from group G01S 13/90. Groups G01S 13/90 and G01S 13/9019 should be considered in order to perform a complete search.
NEW	G01S 13/9021		Group G01S 13/9021 is incomplete pending reclassification of documents from group G01S 13/90. Groups G01S 13/90 and G01S 13/9021 should be considered in order to perform a complete search.
NEW	G01S 13/9023		Group G01S 13/9023 is impacted by reclassification into group G01S 13/9092. Groups G01S 13/9023 and G01S 13/9092 should be considered in order to perform a complete search.
NEW	G01S 13/9027		Group G01S 13/9027 is incomplete pending reclassification of documents from group G01S 13/90. Groups G01S 13/90 and G01S 13/9027 should be considered in order to perform a complete search.
NEW	G01S 13/904		Group G01S 13/904 is incomplete pending reclassification of documents from group

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
			G01S 13/90. Group G01S13/904 also impacted by reclassification into groups G01S 13/9054 and G01S13/9056. All groups listed in this Warning should be considered in order to perform a complete search.
NEW	G01S 13/9054		Group G01S 13/9054 is incomplete pending reclassification of documents from groups G01S 13/90 and G01S 13/904. Groups G01S 13/90, G01S 13/904 and G01S 13/9056 should be considered in order to perform a complete search.
NEW	G01S 13/9056		Group G01S 13/9056 is incomplete pending reclassification of documents from groups G01S 13/90 and G01S 13/904. Groups G01S 13/90, G01S 13/904 and G01S 13/9056 should be considered in order to perform a complete search.
NEW	G01S 13/9089		Group G01S 13/9089 is incomplete pending reclassification of documents from group G01S 13/90. Groups G01S 13/90 and G01S 13/9089 should be considered in order to perform a complete search.
NEW	G01S 13/9092		Group G01S 13/9092 is incomplete pending reclassification of documents from group G01S 13/9023. Groups G01S 13/9023 and G01S 13/9092 should be considered in order to perform a complete search.
NEW	G01S 13/91		Group G01S 13/91 is impacted by reclassification into group G01S 13/917. Groups G01S 13/91 and G01S 13/917 should be considered in order to perform a complete search.
NEW	G01S 13/917		Group G01S 13/917 is incomplete pending reclassification of documents from group G01S 13/91. Groups G01S 13/91 and G01S 13/917 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.

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2. A. DEFINITIONS (new)

Insert: The following new Definitions.

G01S 13/9023

References

Informative references:

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

Phase comparisons monopulse	G01S 13/4454
Monopulse hybrid systems, e.g. conopulse	G01S 13/4481

G01S 13/9029

References

Informative references:

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

Discriminating between fixed and moving objects or between objects moving at different speeds	G01S 13/52
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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>
G01S 13/91	Limiting references		<p><u>Insert:</u> A new Limiting references section with the following reference.</p> <p><i>Limiting references</i> <i>This place does not cover:</i></p> <p>For anti-collision purposes G01S 13/93</p>

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.

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3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	G01S 13/89	G01S 13/89, G01S 13/895
C	G01S 13/90	G01S 13/90, G01S 13/9004, G01S 13/9019, G01S 13/9021, G01S 13/9027, G01S 13/904, G01S 13/9054, G01S 13/9056, G01S 13/9089
C	G01S 13/9023	G01S 13/9023, G01S 13/9092
D	G01S 13/9035	<administrative transfer to G01S 13/904>
Q	G01S 13/904	G01S 13/904, G01S 13/9054, G01S 13/9056
D	G01S 2013/9041	<administrative transfer to G01S 13/9041>
D	G01S 2013/9047	<administrative transfer to G01S 13/9047>
D	G01S 2013/9052	<administrative transfer to G01S 13/9052>
D	G01S 2013/9058	<administrative transfer to G01S 13/9058>
D	G01S 2013/9064	<administrative transfer to G01S 13/9064>
D	G01S 2013/907	<administrative transfer to G01S 13/9043>
D	G01S 2013/9076	<administrative transfer to G01S 13/9076>
D	G01S 2013/9082	<administrative transfer to G01S 13/9082>
D	G01S 2013/9088	<administrative transfer to G01S 13/9088>
C	G01S 13/91	G01S 13/91, G01S 13/917

* 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.

NOTES:

- Only C, D, F and Q type entries are included in the table above.
- When multiple symbols are included in the "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>" or "<administrative transfer to XX and YY simultaneously>" when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be "invention information", unless otherwise indicated, and to 2000 series groups is assumed to be "additional information".

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
G01S 13/895	G01S 13/89	New
G01S 13/9004	G01S 13/90	New
G01S 13/9019	G01S 13/90	New
G01S 13/9021	G01S 13/90	New
G01S 13/9027	G01S 13/90	New
G01S 13/9035		Delete
G01S 13/904	G01S 13/90	New
G01S 13/9041	G01S 13/90	New
G01S 2013/9041		Delete
G01S 13/9043	G01S 13/90	New
G01S 13/9047	G01S 13/90	New
G01S 2013/9047		Delete
G01S 13/9052	G01S 13/90	New
G01S 2013/9052		Delete
G01S 13/9054	G01S 13/90	New
G01S 13/9056	G01S 13/90	New
G01S 13/9058	G01S 13/90	New
G01S 2013/9058		Delete
G01S 13/9064	G01S 13/90	New
G01S 2013/9064		Delete
G01S 2013/907		Delete
G01S 13/9076	G01S 13/90	New
G01S 2013/9076		Delete
G01S 13/9082	G01S 13/90	New
G01S 2013/9082		Delete
G01S 13/9088	G01S 13/90	New
G01S 2013/9088		Delete
G01S 13/9089	G01S 13/90	New
G01S 13/9092	G01S 13/90	New
G01S 13/917	G01S 13/91	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.
- 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.
- E and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.