

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1059

DATE: MAY 1, 2021

PROJECT RP0596

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	2007/027, 2007/028, 2007/2883, 2007/2886, 2007/356, 2007/358, 2007/4013, 2007/403, 2007/4034, 2007/4039, 2007/4043, 2007/4047, 2007/406, 2007/4065, 2007/4069, 2007/4073, 2007/4078, 2007/4082, 2007/4086, 2007/4091, 2007/4095
Symbols New:	G01S	7/0231, 7/0232, 7/0233, 7/0234, 7/0235, 7/0236, 7/027, 7/028, 7/2883, 7/2886, 7/356, 7/358, 7/4013, 7/403, 7/4034, 7/4039, 7/4043, 7/4047, 7/406, 7/4065, 7/4069, 7/4073, 7/4078, 7/4082, 7/4086, 7/4091, 7/4095
Titles Changed:	G01S	7/023
Warnings New:	G01S	7/023, 7/0231, 7/0232, 7/0233, 7/0234, 7/0235, 7/0236
DEFINITIONS:		
Definitions Modified:	G01S	7/02

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)

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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</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
U	G01S7/00	0	Details of systems according to groups G01S13/00, G01S15/00, G01S17/00	
U	G01S7/02	1	of systems according to group G01S13/00	
C	G01S 7/023	2	{Interference mitigation, e.g. reducing or avoiding non-intentional interference with other HF-transmitters, base station transmitters for mobile communication or other radar systems, e.g. using electro-magnetic interference [EMI] reduction techniques (auxiliary means for detecting or identifying radar signals or the like G01S7/021; means for anti-jamming G01S7/36)}	G01S 7/023, G01S 7/0231, G01S 7/0232, G01S 7/0233, G01S 7/0234, G01S 7/0235, G01S 7/0236
N	G01S7/0231	3	{Avoidance by polarisation multiplex }	
N	G01S7/0232	3	{Avoidance by frequency multiplex }	
N	G01S7/0233	3	{Avoidance by phase multiplex }	
N	G01S7/0234	3	{Avoidance by code multiplex }	
N	G01S7/0235	3	{Avoidance by time multiplex }	
N	G01S7/0236	3	{Avoidance by space multiplex }	
N	G01S7/027	2	{Constructional details of housings, e.g. form, type, material or ruggedness }	
D	G01S2007/027	2	{Housing details, e.g. form, type, material, ruggedness }	<administrative transfer to G01S7/027>
N	G01S7/028	3	{Miniaturisation, e.g. surface mounted device [SMD] packaging or housings }	
D	G01S2007/028	3	{involving miniaturizing aspects, e.g. surface mounted device [SMD] packaging or housing }	<administrative transfer to G01S7/028>
U	G01S7/288	4	Coherent receivers	
N	G01S7/2883	5	{using FFT processing }	
D	G01S2007/2883	5	{using FFT processing }	<administrative transfer to G01S7/2883>
N	G01S7/2886	5	{using I/Q processing }	
D	G01S2007/2886	5	{using I/Q processing }	<administrative transfer to G01S7/2886>
U	G01S 7/352	3	{Receivers }	

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<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>
N	G01S7/356	4	{involving particularities of FFT processing}	
D	G01S2007/356	4	{involving particularities of FFT processing}	<administrative transfer to G01S7/356>
N	G01S7/358	4	{using I/Q processing}	
D	G01S2007/358	4	{using I/Q processing}	<administrative transfer to G01S7/358>
U	G01S 7/4008	4	{of transmitters}	
N	G01S7/4013	5	{involving adjustment of the transmitted power}	
D	G01S2007/4013	5	{involving adjustment of the transmitted power}	<administrative transfer to G01S7/4013>
U	G01S 7/4026	4	{Antenna boresight}	
N	G01S7/403	5	{in azimuth, i.e. in the horizontal plane}	
D	G01S2007/403	5	{in azimuth, i.e. in the horizontal plane}	<administrative transfer to G01S7/403>
N	G01S7/4034	5	{in elevation, i.e. in the vertical plane}	
D	G01S2007/4034	5	{in elevation, i.e. in the vertical plane}	<administrative transfer to G01S7/4034>
N	G01S7/4039	4	{of sensor or antenna obstruction, e.g. dirt- or ice-coating}	
D	G01S2007/4039	4	{of sensor or antenna obstruction, e.g. dirt- or ice-coating}	<administrative transfer to G01S7/4039>
N	G01S7/4043	5	{including means to prevent or remove the obstruction}	
D	G01S2007/4043	5	{including means to prevent or remove the obstruction}	<administrative transfer to G01S7/4043>
N	G01S7/4047	6	{Heated dielectric lens, e.g. by heated wire}	
D	G01S2007/4047	6	{heated dielectric lens, e.g. by heated wire}	<administrative transfer to G01S7/4047>
N	G01S7/406	4	{using internally generated reference signals, e.g. via delay line, via RF or IF signal injection or via integrated reference reflector or transponder}	
D	G01S2007/406	4	{using internally generated reference signals, e.g. via delay line, via RF or IF signal injection or via integrated reference reflector or transponder}	<administrative transfer to G01S7/406>
N	G01S7/4065	5	{involving a delay line}	
D	G01S2007/4065	5	{involving a delay line}	<administrative transfer to G01S7/4065>
N	G01S7/4069	5	{involving a RF signal injection}	
D	G01S2007/4069	5	{involving a RF signal injection}	<administrative transfer to G01S7/4069>
N	G01S7/4073	5	{involving an IF signal injection}	

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Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to[#]
D	G01S2007/4073	5	{involving an IF signal injection}	<administrative transfer to G01S7/4073>
N	G01S7/4078	5	{involving an integrated reference reflector or reference transponder}	
D	G01S2007/4078	5	{involving an integrated reference reflector or reference transponder}	<administrative transfer to G01S7/4078>
N	G01S7/4082	4	{using externally generated reference signals, e.g. via remote reflector or transponder}	
D	G01S2007/4082	4	{using externally generated reference signals, e.g. via remote reflector or transponder}	<administrative transfer to G01S7/4082>
N	G01S7/4086	5	{in a calibrating environment, e.g. anechoic chamber}	
D	G01S2007/4086	5	{in a calibrating environment, e.g. anechoic chamber}	<administrative transfer to G01S7/4086>
N	G01S7/4091	5	{during normal radar operation}	
D	G01S2007/4091	5	{during normal radar operation}	<administrative transfer to G01S7/4091>
N	G01S7/4095	5	{the external reference signals being modulated, e.g. rotating a dihedral reflector or modulating a transponder for simulation of a Doppler echo}	
D	G01S2007/4095	5	{the external reference signals being modulated, e.g. rotating dihedral reflector or modulating transponder for simulation of a Doppler echo etc.}	<administrative transfer to G01S7/4095>

*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.

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- 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.

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B. New, Modified or Deleted Warning notice(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>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	G01S 7/023		Group G01S 7/023 is impacted by reclassification into groups G01S 7/0231, G01S 7/0232, G01S 7/0233, G01S 7/0234, G01S 7/0235 and G01S 7/0236. All groups listed in this Warning should be considered in order to perform a complete search.
N	G01S 7/0231		Group G01S 7/0231 is incomplete pending reclassification of documents from group G01S 7/023. Groups G01S 7/023 and G01S 7/0231 should be considered in order to perform a complete search.
N	G01S 7/0232		Group G01S 7/0232 is incomplete pending reclassification of documents from group G01S 7/023. Groups G01S 7/023 and G01S 7/0232 should be considered in order to perform a complete search.
N	G01S 7/0233		Group G01S 7/0233 is incomplete pending reclassification of documents from group G01S 7/023. Groups G01S 7/023 and G01S 7/0233 should be considered in order to perform a complete search.
N	G01S 7/0234		Group G01S 7/0234 is incomplete pending reclassification of documents from group G01S 7/023. Groups G01S 7/023 and G01S 7/0234 should be considered in order to perform a complete search.
N	G01S 7/0235		Group G01S 7/0235 is incomplete pending reclassification of documents from group G01S 7/023. Groups G01S 7/023 and G01S 7/0235 should be considered in order to perform a complete search.
N	G01S 7/0236		Group G01S 7/0236 is incomplete pending reclassification of documents from group G01S 7/023. Groups G01S 7/023 and G01S 7/0236 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. 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 7/02	Limiting references	<p>Limiting references <i>This place does not cover.</i></p> <p>Radio wave modulation schemes G01S13/08, G01S13/58</p> <p>Beam-forming G01S13/42, H01Q3/00</p> <p>Tracking G01S13/66</p> <p>Specific radar applications G01S13/88</p>	<p><u>Delete</u> the entire existing “Limiting references” section.</p>
G01S 7/02	Informative references		<p><u>Insert</u> the following <u>new</u> “Informative references” section.</p> <p>Informative references <i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Radio wave modulation schemes G01S13/08, G01S13/58</p> <p>Beam-forming G01S13/42, H01Q3/00</p> <p>Tracking G01S13/66</p> <p>Specific radar applications G01S13/88</p>

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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)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	G01S 7/023	G01S 7/023, G01S 7/0231, G01S 7/0232, G01S 7/0233, G01S 7/0234, G01S 7/0235, G01S 7/0236
D	G01S 2007/027	<administrative transfer to G01S 7/027>
D	G01S 2007/028	<administrative transfer to G01S 7/028>
D	G01S 2007/2883	<administrative transfer to G01S 7/2883>
D	G01S 2007/2886	<administrative transfer to G01S 7/2886>
D	G01S 2007/356	<administrative transfer to G01S 7/356>
D	G01S 2007/358	<administrative transfer to G01S 7/358>
D	G01S 2007/4013	<administrative transfer to G01S 7/4013>
D	G01S 2007/403	<administrative transfer to G01S 7/403>
D	G01S 2007/4034	<administrative transfer to G01S 7/4034>
D	G01S 2007/4039	<administrative transfer to G01S 7/4039>
D	G01S 2007/4043	<administrative transfer to G01S 7/4043>
D	G01S 2007/4047	<administrative transfer to G01S 7/4047>
D	G01S 2007/406	<administrative transfer to G01S 7/406>
D	G01S 2007/4065	<administrative transfer to G01S 7/4065>
D	G01S 2007/4069	<administrative transfer to G01S 7/4069>
D	G01S 2007/4073	<administrative transfer to G01S 7/4073>
D	G01S 2007/4078	<administrative transfer to G01S 7/4078>
D	G01S 2007/4082	<administrative transfer to G01S 7/4082>
D	G01S 2007/4086	<administrative transfer to G01S 7/4086>
D	G01S 2007/4091	<administrative transfer to G01S 7/4091>
D	G01S 2007/4095	<administrative transfer to G01S 7/4095>

* 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.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
G01S 7/0231	G01S 7/02	NEW
G01S 7/0232	G01S 7/02	NEW
G01S 7/0233	G01S 7/02	NEW
G01S 7/0234	G01S 7/02	NEW
G01S 7/0235	G01S 7/02	NEW
G01S 7/0236	G01S 7/02	NEW
G01S 7/027	G01S 7/02	NEW
G01S 2007/027		DELETE
G01S 7/028	G01S 7/02	NEW
G01S 2007/028		DELETE
G01S 7/2883	G01S 7/288	NEW
G01S 2007/2883		DELETE
G01S 7/2886	G01S 7/288	NEW
G01S 2007/2886		DELETE
G01S 7/356	G01S 7/35	NEW
G01S 2007/356		DELETE
G01S 7/358	G01S 7/35	NEW
G01S 2007/358		DELETE
G01S 7/4013	G01S 7/40	NEW
G01S 2007/4013		DELETE
G01S 7/403	G01S 7/40	NEW
G01S 2007/403		DELETE
G01S 7/4034	G01S 7/40	NEW
G01S 2007/4034		DELETE
G01S 7/4039	G01S 7/40	NEW
G01S 2007/4039		DELETE
G01S 7/4043	G01S 7/40	NEW
G01S 2007/4043		DELETE
G01S 7/4047	G01S 7/40	NEW
G01S 2007/4047		DELETE
G01S 7/406	G01S 7/40	NEW
G01S 2007/406		DELETE
G01S 7/4065	G01S 7/40	NEW
G01S 2007/4065		DELETE
G01S 7/4069	G01S 7/40	NEW
G01S 2007/4069		DELETE
G01S 7/4073	G01S 7/40	NEW
G01S 2007/4073		DELETE
G01S 7/4078	G01S 7/40	NEW
G01S 2007/4078		DELETE
G01S 7/4082	G01S 7/40	NEW
G01S 2007/4082		DELETE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
G01S 7/4086	G01S 7/40	NEW
G01S 2007/4086		DELETE
G01S 7/4091	G01S 7/40	NEW
G01S 2007/4091		DELETE
G01S 7/4095	G01S 7/40	NEW
G01S 2007/4095		DELETE

*Action column:

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

NOTES:

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