EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 466

DATE: JANUARY 1, 2018

PROJECT MP0394

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

Action	**Subclass**	**Group(s)**
SCHEME:		
Titles Changed:	B60R	11/02
	B64C	1/36
	B64G	1/66
	F41G	3/00
	G01R	29/10
	G01S	1/10
	G01S	1/12
	G01S	1/14
	G01S	1/20
	G01S	1/26
	G01S	1/34
	G01S	1/38
	G01S	1/40
	G01S	3/06
	G01S	3/08
	G01S	3/12
	G01S	3/16
	G01S	3/18
	G01S	3/20
	G01S	3/22
	G01S	3/24
	G01S	3/26
	G01S	3/28
	G01S	3/32
	G01S	3/34
	G01S	3/36
	G01S	3/38
	G01S	3/40
	G01S	3/46
	G01S	3/48
	G01S	3/50
	G01S	3/52
	G01S	3/54
	G01S	3/74

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Action	**Subclass**	**Group(s)**
	H03C	7/02
	H04B	1/18
	H04B	1/72
	H05B	6/72
	H05K	9/00
DEFINITIONS:		
Definitions Modified:	B64C	1/36
	B64G	1/66
	F41G	3/00
	G01R	29/10
	H04B	1/72
	H05K	9/00

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)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS B60R – VEHICLES, VEHICLES FITTING, NOT OTHERWISE PROVIDED FOR

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#**
M	B60R11/02	1	for radio sets, television sets, telephones, or the like; Arrangement of controls thereof	

SUBCLASS B64C – AEROPLANES; HELICOPTERS

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#**
M	B64C1/36	1	adapted to receive antennas or radomes (antennas or radomes per se H01Q)	

SUBCLASS B64G – COSMONAUTICS; VEHICLES OR EQUIPMENT THEREFOR

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#**
M	B64G1/66	2	Arrangements or adaptations of apparatus or instruments, not otherwise provided for (instruments per se, see the relevant classes, e.g. antennas for use in satellites H01Q1/28)	

SUBCLASS F41G – WEAPON SIGHTS; AIMING

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#
M	F41G3/00	0	Aiming or laying means (sighting devices F41G1/00; determining direction, distance or velocity by use of radio or other waves G01S; computers G06; antennas H01Q)	

SUBCLASS G01R – MEASURING ELECTRIC VARIABLES; MEASURING MAGNETIC VARIABLES

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#
M	G01R29/10	2	Radiation diagrams of antennas	

SUBCLASS G01S – RADIO DIRECTION-FINDING; RADIO NAVIGATION

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#
M	G01S1/10	3	using amplitude comparison of signals transmitted sequentially from antennas or antenna systems having differently oriented overlapping directivity characteristics, e.g. equi-signal A-N type	
M	G01S1/12	4	the signals being transmitted sequentially from an antenna or antenna system having the orientation of its directivity characteristic periodically varied, e.g. by means of sequentially effective reflectors	
M	G01S1/14	3	using amplitude comparison of signals transmitted simultaneously from antennas or antenna systems having differently oriented overlapping directivity-characteristics	
M	G01S1/20	3	using a comparison of transit time of synchronised signals transmitted from non-	

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#**
			directional antennas or antenna systems spaced apart, i.e. path-difference systems	
M	G01S1/26	5	Systems in which pulses or time-base signals are generated locally at the receiver and brought into predetermined time-relationship with received signals, e.g. pulse duration coincides with time interval between arrival of significant part of modulation of signals received from first and second antennas or antenna systems	
M	G01S1/34	5	Systems in which first and second synchronised signals are transmitted from both antennas or antenna systems and a beat frequency, obtained by heterodyning the first signals with each other is compared in phase with a beat frequency obtained by heterodyning the second signals with each other	
M	G01S1/38	3	using comparison of (1) the phase of the envelope of the change of frequency, due to Doppler effect, of the signal transmitted by an antenna moving, or appearing to move, in a cyclic path with (2) the phase of a reference signal, the frequency of this reference signal being synchronised with that of the cyclic movement, or apparent cyclic movement, of the antenna	
M	G01S1/40	4	the apparent movement of the antenna being produced by cyclic sequential energisation of fixed antennas	
M	G01S3/06	3	Means for increasing effective directivity, e.g. by combining signals having differently oriented directivity characteristics or by sharpening the envelope waveform of the signal derived from a rotating or oscillating beam antenna (comparing amplitude of signals having differently oriented directivity characteristics to determine direction G01S3/16, G01S3/28)	
M	G01S3/08	3	Means for reducing polarisation errors, e.g. by use of Adcock or spaced loop antenna systems	

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#**
M	G01S3/12	3	Means for determining sense of direction, e.g. by combining signals from directional antenna or goniometer search coil with those from non-directional antenna (determining direction by amplitude comparison of signals derived by combining directional and non-directional signals G01S3/24, G01S3/34)	
M	G01S3/16	3	using amplitude comparison of signals derived sequentially from receiving antennas or antenna systems having differently oriented directivity characteristics or from an antenna system having periodically-varied orientation of directivity characteristic	
M	G01S3/18	4	derived directly from separate directional antennas	
M	G01S3/20	4	derived by sampling signal received by an antenna system having periodically-varied orientation of directivity characteristic	
M	G01S3/22	4	derived from different combinations of signals from separate antennas, e.g. comparing sum with difference	
M	G01S3/24	5	the separate antennas comprising one directional antenna and one non-directional antenna, e.g. combination of loop and open antennas producing a reversed cardioid directivity characteristic	
M	G01S3/26	5	the separate antennas having differently oriented directivity characteristics	
M	G01S3/28	3	using amplitude comparison of signals derived simultaneously from receiving antennas or antenna systems having differently oriented directivity characteristics	
M	G01S3/32	4	derived from different combinations of signals from separate antennas, e.g. comparing sum with difference	
M	G01S3/34	5	the separate antennas comprising one directional antenna and one non-directional antenna, e.g. combination of loop and open antennas producing a reversed cardioid directivity characteristic	
M	G01S3/36	5	the separate antennas having differently oriented directivity characteristics	

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#**
M	G01S3/38	3	using adjustment of real or effective orientation of directivity characteristic of an antenna or an antenna system to give a desired condition of signal derived from that antenna or antenna system, e.g. to give a maximum or minimum signal (G01S3/16, G01S3/28 take precedence)	
M	G01S3/40	4	adjusting orientation of a single directivity characteristic to produce maximum or minimum signal, e.g. rotatable loop antenna or equivalent goniometer system	
M	G01S3/46	3	using antennas spaced apart and measuring phase or time difference between signals therefrom, i.e. path-difference systems	
M	G01S3/48	4	the waves arriving at the antennas being continuous or intermittent and the phase difference of signals derived therefrom being measured	
M	G01S3/50	4	the waves arriving at the antennas being pulse modulated and the time difference of their arrival being measured	
M	G01S3/52	3	using a receiving antenna moving, or appearing to move, in a cyclic path to produce a Doppler variation of frequency of the received signal	
M	G01S3/54	4	the apparent movement of the antenna being produced by coupling the receiver cyclically and sequentially to each of several fixed spaced antennas	
M	G01S3/74	2	Multi-channel systems specially adapted for direction-finding, i.e. having a single antenna system capable of giving simultaneous indications of the directions of different signals (systems in which the directions of different signals are determined sequentially and displayed simultaneously G01S3/04, G01S3/14)	

SUBCLASS H03C - MODULATION

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#
M	H03C7/02	1	in transmission line, waveguide, cavity resonator or radiation field of antenna	

SUBCLASS H04B - TRANSMISSION

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#
M	H04B1/18	3	Input circuits, e.g. for coupling to an antenna or a transmission line (coupling networks between antennas or lines and receivers independent of the nature of the receiver H03H)	
M	H04B1/72	1	Circuits or components for simulating antennas, e.g. dummy antennas	

SUBCLASS H05B – ELECTRIC HEATING

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#
M	H05B6/72	2	Radiators or antennas	

SUBCLASS H05K – PRINTED CIRCUITS

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#
M	H05K9/00	0	Screening of apparatus or components against electric or magnetic fields (devices for absorbing radiation from an antenna H01Q17/00)	

*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.

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).
- 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".

2. A. DEFINITIONS (modified)

B64C1/36

Definition statement

Delete: The existing paragraph in the *Definition statement* section.

Insert: The following replacement paragraph in the *Definition statement* section.

Details of the mounting of the antenna or radome to the fuselage, e.g. hinged connections for maintenance purposes

Delete: The entire existing *Limiting references* section/table.

Insert: The following new *Informative references* section/table.

Informative references:

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

Antennas or radomes per se	H01Q

B64G1/66

Informative references

Delete: In the *Informative references* table, the following word:

Aerials

Replace with: The following word:

Antennas

F41G3/00

Limiting references

Insert: The following three new rows in the existing Limiting references table:

Structural details of sighting devices	F41G1/00
Sighting devices combined with light source for illuminating a target	F41G1/35
Sighting devices for range-finding or lead indicating	F41G1/473

Delete: The following row from the Limiting references table:

Elevating or traversing control systems for guns	F41G5/00

Informative references

Delete: The following three rows from the Informative references table:

Structural details of sighting devices	F41G1/00
Sighting devices combined with light source for illuminating a target	F41G1/35
Sighting devices for range-finding or lead indicating	F41G1/473

Insert: The following four new rows in the Informative references table:

Elevating or traversing control systems for guns	F41G5/00
Determining direction, distance or velocity by use of radio or other waves	G01S
Computers	G06
Antennas	H01Q

G01R29/10

Informative references

Insert: The following new Informative references section.

Informative references

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

Analysing the shape of a waveform	G06K9/0053
Antennas in general	H01Q1/00
Phased-array testing or checking devices	H01Q3/267

Limiting references

Delete: The entire existing Limiting references section and table.

Limiting references

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

Analysing the shape of a waveform	G06K9/0053
Antennas in general	H01Q1/00
Phased-array testing or checking devices	H01Q3/267

H04B1/72

Insert: The following new Informative references section.

Informative references

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

Dissipative waveguide terminations	H01P 1/26

Delete: The entire existing Limiting references section and table.

Limiting references
This place does not cover:

dissipative waveguide terminations	H01P 1/26

Special rules of classification

Delete: The following symbol in the Special Rules section.

H01P 1/26

Replace with: The following symbol/text.

H03H, e.g.

H05K9/00

Limiting references

Insert: The following new row in the *Limiting references* table.

Devices for absorbing radiation from an antenna	H01Q17/00

Delete: ALL of the following existing rows in the existing *Limiting references* table.

Screening of human body against electromagnetic influences	A61N1/16
Anechoic chambers	G01R29/0821
Shielding of Nuclear magnetic Resonance devices	G01R33/42
Grounding and RFI shielding of Desktop and laptop computers	G06F1/182
Screening against nuclear radiation	G21F

Magnetic shielding of transformers	H01F27/28
Screening of semiconductor devices	H01L23/552, H01L24/00
Device for absorbing radiation from aerial	H01Q17/00
Screening of dynamo-electric machines	H02K11/00

Informative references

Insert: The following new row in the existing *Informative references* table.

Screening against nuclear radiation	G21F

Insert: The following new *Application-oriented references* section.

Application-oriented references:

Examples of places where the subject matter of this class is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Screening of human body against electromagnetic influences	A61N1/16
Anechoic chambers	G01R29/0821
Shielding of Nuclear magnetic Resonance devices	G01R33/42
Grounding and RFI shielding of Desktop and laptop computers	G06F1/182
Magnetic shielding of transformers	H01F27/28
Screening of semiconductor devices	H01L23/552, H01L24/00
Device for absorbing radiation from antenna	H01Q17/00
Screening of dynamo-electric machines	H02K11/00