

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 520

MAY 1, 2018

PROJECT RP0514

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>		
Titles Changed:	H01Q	Subclass
	H01Q	1/00, 1/002, 1/005, 1/02, 1/06, 1/08, 1/082, 1/084, 1/12, 1/1228, 1/125, 1/1257, 1/18, 1/185, 1/22, 1/2208, 1/2233, 1/2241, 1/225, 1/2283, 1/247, 1/27, 1/30, 1/32, 1/34, 1/38, 1/44, 1/46, 1/48, 1/50, 1/52, 1/525, 1/526, 1/528
	H01Q	3/00, 3/005, 3/01, 3/02, 3/12, 3/26, 3/2605, 3/267, 3/2676, 3/36
	H01Q	5/00, 5/10, 5/15, 5/48, 5/49, 5/55
	H01Q	7/00, 7/005, 7/02, 7/04
	H01Q	9/00, 9/02, 9/04, 9/16, 9/18, 9/26, 9/27, 9/28, 9/34, 9/43, 9/44
	H01Q	11/00, 11/02, 11/04, 11/06, 11/08, 11/10, 11/12, 11/14, 11/20
	H01Q	13/00, 13/10, 13/12, 13/14, 13/16, 13/20, 13/28
	H01Q	15/00, 15/10, 15/14, 15/22, 15/24
	H01Q	17/00
	H01Q	19/00, 19/04, 19/09, 19/15, 19/18, 19/24, 19/28, 19/30
	H01Q	21/00, 21/06, 21/12, 21/14, 21/22, 21/24, 21/26, 21/28, 21/29, 21/30
	H01Q	23/00
	H01Q	25/00, 25/02, 25/04
	H01P	3/20
Warnings New:	H01Q	19/30
	H01Q	21/12
Notes Modified:	H01Q	Subclass
	H01Q	1/00
	H01Q	23/00
<b>DEFINITIONS:</b>		
Definitions Modified:	H01Q	Subclass
	H01Q	1/00, 1/08, 1/27, 1/32, 1/34, 1/36, 1/38, 1/44, 1/52
	H01Q	3/26
	H01Q	5/00, 5/20

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<u>Action*</u>	<u>Subclass</u>	<u>Group(s)</u>
	H01Q	7/005, 7/04
	H01Q	9/00, 9/045, 9/065, 9/14, 9/16, 9/26, 9/28, 9/285, 9/44
	H01Q	11/00, 11/02, 11/04, 11/14
	H01Q	13/0208, 13/0233, 13/103, 13/20, 13/28
	H01Q	15/00, 15/10, 15/14, 15/22
	H01Q	19/18
	H01Q	21/00, 21/06, 21/12, 21/24, 21/29
	H01Q	25/00

**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 520

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## 1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)**SUBCLASS H01Q – ANTENNAS, i.e. RADIO AERIALS**

<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	H01Q	SUBCLASS	ANTENNAS, i.e. RADIO AERIALS (radiators or antennas for microwave heating <a href="#">H05B 6/72</a> )	
M	H01Q 1/00	0	Details of, or arrangements associated with, antennas (arrangements for varying orientation of directional pattern <a href="#">H01Q 3/00</a> )	
M	H01Q 1/002	1	{Protection against seismic waves, thermal radiation or other disturbances, e.g. nuclear explosion; Arrangements for improving the power handling capability of an antenna}	
M	H01Q 1/005	1	{Damping of vibrations; Means for reducing wind-induced forces}	
M	H01Q 1/02	1	Arrangements for de-icing; Arrangements for drying-out {; Arrangements for cooling; Arrangements for preventing corrosion}	
M	H01Q 1/06	1	Means for the lighting or illuminating of antennas, e.g. for purpose of warning	
M	H01Q 1/08	1	Means for collapsing antennas or parts thereof (collapsible loop antennas <a href="#">H01Q 7/02</a> ; means for collapsing H-antennas or Yagi antennas <a href="#">H01Q 19/04</a> )	
M	H01Q 1/082	3	{Balloon antennas}	
M	H01Q 1/084	2	{Pivotable antennas}	
M	H01Q 1/12	1	Supports; Mounting means	
M	H01Q 1/1228	3	{on a boom}	
M	H01Q 1/125	2	{Means for positioning}	
M	H01Q 1/1257	3	{using the received signal strength}	
M	H01Q 1/18	2	Means for stabilising antennas on an unstable platform	
M	H01Q 1/185	3	{by electronic means}	
M	H01Q 1/22	2	by structural association with other equipment or articles	
M	H01Q 1/2208	3	{associated with components used in interrogation type services, i.e. in systems for information exchange between an interrogator/reader and a tag/transponder, e.g. in Radio Frequency Identification [RFID] systems (methods or arrangements for sensing record carriers,	

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			e.g. for reading patterns <a href="#">G06K7/00</a> ; record carrier for use with machines and with at least a part designed to carry digital markings <a href="#">G06K19/00</a> }	
M	H01Q 1/2233	4	{used in consumption-meter devices, e.g. electricity, gas or water meters }	
M	H01Q 1/2241	4	{used in or for vehicle tyres }	
M	H01Q 1/225	3	{used in level-measurement devices, e.g. for level gauge measurement }	
M	H01Q 1/2283	3	{mounted in or on the surface of a semiconductor substrate as a chip-type antenna or integrated with other components into an IC package }	
M	H01Q 1/247	4	{with frequency mixer, e.g. for direct satellite reception or Doppler radar }	
M	H01Q 1/27	1	Adaptation for use in or on movable bodies ( <a href="#">H01Q 1/08</a> , <a href="#">H01Q 1/12</a> , <a href="#">H01Q 1/18</a> take precedence)	
M	H01Q 1/30	3	Means for trailing antennas	
M	H01Q 1/32	2	Adaptation for use in or on road or rail vehicles	
M	H01Q 1/34	2	Adaptation for use in or on ships, submarines, buoys or torpedoes (for subaqueous use <a href="#">H01Q 1/04</a> )	
M	H01Q 1/38	2	formed by a conductive layer on an insulating support {(patch antennas <a href="#">H01Q 9/0407</a> ; microstrip dipole antennas <a href="#">H01Q 9/065</a> ; microstrip slot antennas <a href="#">H01Q 13/106</a> ; transmission line microstrip antennas <a href="#">H01Q 13/206</a> ; manufacturing reflecting surfaces using insulating material for supporting the reflecting surface <a href="#">H01Q 15/142</a> )}	
M	H01Q 1/44	1	using equipment having another main function to serve additionally as an antenna {, e.g. means for giving an antenna an aesthetic aspect} ( <a href="#">H01Q 1/27</a> - <a href="#">H01Q 1/34</a> take precedence)	
M	H01Q 1/46	2	Electric supply lines or communication lines	
M	H01Q 1/48	1	Earthing means; Earth screens; Counterpoises	
M	H01Q 1/50	1	Structural association of antennas with earthing switches, lead-in devices or lightning protectors	
M	H01Q 1/52	1	Means for reducing coupling between antennas; Means for reducing coupling between an antenna and another structure (absorbing means <a href="#">H01Q17/00</a> )	
M	H01Q 1/525	3	{between emitting and receiving antennas }	
M	H01Q 1/526	2	{Electromagnetic shields }	
M	H01Q 1/528	2	{reducing the re-radiation of a support structure (in a parabolic reflector antenna <a href="#">H01Q 19/023</a> )}	
M	H01Q 3/00	0	Arrangements for changing or varying the orientation or the shape of the directional pattern of the waves	

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			radiated from an antenna or antenna system {(means for positioning <a href="#">H01Q1/125</a> )}	
M	H01Q 3/005	1	{using remotely controlled antenna positioning or scanning}	
M	H01Q 3/01	1	varying the shape of the antenna or antenna system	
M	H01Q 3/02	1	using mechanical movement of antenna or antenna system as a whole	
M	H01Q 3/12	1	using mechanical relative movement between primary active elements and secondary devices of antennas or antenna systems	
M	H01Q 3/26	1	varying the relative phase or relative amplitude of energisation between two or more active radiating elements; varying the distribution of energy across a radiating aperture ({ <a href="#">H01Q 3/12</a> ,} <a href="#">H01Q 3/22</a> , <a href="#">H01Q 3/24</a> take precedence)	
M	H01Q 3/2605	2	{Array of radiating elements provided with a feedback control over the element weights, e.g. adaptive arrays}	
M	H01Q 3/267	2	{Phased-array testing or checking devices}	
M	H01Q 3/2676	2	{Optically controlled phased array}	
M	H01Q 3/36	4	with variable phase-shifters	
M	H01Q 5/00	0	Arrangements for simultaneous operation of antennas on two or more different wavebands, e.g. dual-band or multi-band arrangements (combinations of separate active antenna units operating in different wavebands and connected to a common feeder system <a href="#">H01Q 21/30</a> )	
M	H01Q 5/10	1	Resonant antennas	
M	H01Q 5/15	2	for operation of centre-fed antennas comprising one or more collinear, substantially straight or elongated active elements	
M	H01Q 5/48	2	Combinations of two or more dipole type antennas	
M	H01Q 5/49	3	with parasitic elements used for purposes other than for dual-band or multi-band, e.g. imbricated Yagi antennas	
M	H01Q 5/55	2	for horn or waveguide antennas	
M	H01Q 7/00	0	Loop antennas with a substantially uniform current distribution around the loop and having a directional radiation pattern in a plane perpendicular to the plane of the loop	
M	H01Q 7/005	1	{with variable reactance for tuning the antenna}	
M	H01Q 7/02	1	Collapsible antennas; Retractable antennas	
M	H01Q 7/04	1	Screened antennas ( <a href="#">H01Q 7/02</a> , <a href="#">H01Q 7/06</a> take precedence)	

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M	H01Q 9/00	0	Electrically-short antennas having dimensions not more than twice the operating wavelength and consisting of conductive active radiating elements	
M	H01Q 9/02	1	Non-resonant antennas	
M	H01Q 9/04	1	Resonant antennas	
M	H01Q 9/16	2	with feed intermediate between the extremities of the antenna, e.g. centre-fed dipole (H01Q 9/44 takes precedence)	
M	H01Q 9/18	3	Vertical disposition of the antenna	
M	H01Q 9/26	3	with folded element or elements, the folded parts being spaced apart a small fraction of operating wavelength (resonant loop antennas H01Q 7/00)	
M	H01Q 9/27	4	Spiral antennas	
M	H01Q 9/28	3	Conical, cylindrical, cage, strip, gauze, or like elements having an extended radiating surface; Elements comprising two conical surfaces having collinear axes and adjacent apices and fed by two-conductor transmission lines (waveguide horns or mouths H01Q13/00; slot antennas H01Q 13/00)	
M	H01Q 9/34	4	Mast, tower, or like self-supporting or stay-supported antennas	
M	H01Q 9/43	4	Scimitar antennas	
M	H01Q 9/44	2	with a plurality of divergent straight elements, e.g. V-dipole, X-antenna; with a plurality of elements having mutually inclined substantially straight portions (combinations of two or more active elements H01Q 21/00; turnstile antennas H01Q 21/26 )	
M	H01Q 11/00	0	Electrically-long antennas having dimensions more than twice the shortest operating wavelength and consisting of conductive active radiating elements (leaky waveguides antennas or slot antennas H01Q 13/00)	
M	H01Q 11/02	1	Non-resonant antennas, e.g. travelling-wave antenna (Yagi antennas H01Q 19/30)	
M	H01Q 11/04	2	with parts bent, folded, shaped, screened or electrically loaded to obtain desired phase relation of radiation from selected sections of the antenna (H01Q 11/06 – H01Q 11/10 take precedence)	
M	H01Q 11/06	2	Rhombic antennas; V-antennas	
M	H01Q 11/08	2	Helical antennas	
M	H01Q 11/10	2	Logperiodic antennas (H01Q 11/08 takes precedence)	
M	H01Q 11/12	1	Resonant antennas	

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M	H01Q 11/14	2	with parts bent, folded, shaped or screened or with phasing impedances, to obtain desired phase relation of radiation from selected sections of the antenna or to obtain desired polarisation effect (H01Q 11/20 takes precedence)	
M	H01Q 11/20	2	V-antennas	
M	H01Q 13/00	0	Waveguide horns or mouths; Slot antennas; Leaky-waveguide antennas; Equivalent structures causing radiation along the transmission path of a guided wave	
M	H01Q 13/10	1	Resonant slot antennas	
M	H01Q 13/12	2	Longitudinally slotted cylinder antennas; Equivalent structures	
M	H01Q 13/14	3	Skeleton cylinder antennas	
M	H01Q 13/16	2	Folded slot antennas	
M	H01Q 13/20	1	Non-resonant leaky-waveguide or transmission-line antennas; Equivalent structures causing radiation along the transmission path of a guided wave	
M	H01Q 13/28	2	comprising elements constituting electric discontinuities and spaced in direction of wave propagation, e.g. dielectric elements or conductive elements forming artificial dielectric	
M	H01Q 15/00	0	Devices for reflection, refraction, diffraction or polarisation of waves radiated from an antenna, e.g. quasi-optical devices (variable for purpose of altering directivity H01Q 3/00; arrangements of such devices for guiding waves H01P 3/20; variable for purpose of modulation H03C 7/02)	
M	H01Q 15/10	2	comprising three-dimensional array of impedance discontinuities, e.g. holes in conductive surfaces or conductive discs forming artificial dielectric	
M	H01Q 15/14	1	Reflecting surfaces; Equivalent structures {(electromagnetic shields H01Q1/526)}	
M	H01Q 15/22	2	functioning also as polarisation filter	
M	H01Q 15/24	1	Polarising devices; Polarisation filters (H01Q 15/12, H01Q 15/22 take precedence)	
M	H01Q 17/00	0	Devices for absorbing waves radiated from an antenna; Combinations of such devices with active antenna elements or systems	
M	H01Q 19/00	0	Combinations of primary active antenna elements and units with secondary devices, e.g. with quasi-optical devices, for giving the antenna a desired directional	

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			characteristic {(combination of horns with slotted waveguide array <a href="#">H01Q13/0233</a> )}	
M	H01Q 19/04	2	Means for collapsing H-antennas or Yagi antennas	
M	H01Q 19/09	2	wherein the primary active element is coated with or embedded in a dielectric or magnetic material (protective material <a href="#">H01Q 1/40</a> , varying the electric or magnetic characteristics of refracting or diffracting devices <a href="#">H01Q 3/44</a> )	
M	H01Q 19/15	3	the primary radiating source being a line source, e.g. leaky waveguide antennas	
M	H01Q 19/18	2	having two or more spaced reflecting surfaces ( <a href="#">H01Q 19/20</a> takes precedence)	
M	H01Q 19/24	2	the primary active element being centre-fed and substantially straight, e.g. H-antenna	
M	H01Q 19/28	1	using a secondary device in the form of two or more substantially straight conductive elements (log periodic antennas <a href="#">H01Q 11/10</a> ; constituting a reflecting surface <a href="#">H01Q 19/10</a> )	
E	H01Q 19/30	2	the primary active element being centre-fed and substantially straight, e.g. Yagi antenna	
M	H01Q 21/00	0	Antenna arrays or systems (arrangements for changing or varying the orientation or the shape of the directional pattern of the waves radiated from an antenna or antenna system <a href="#">H01Q 3/00</a> )	
M	H01Q 21/06	1	Arrays of individually energised antenna units similarly polarised and spaced apart	
C	H01Q 21/12	3	Parallel arrangements of substantially straight elongated conductive units (travelling-wave antennas comprising transmission line loaded with transverse elements <a href="#">H01Q 11/02</a> ; Yagi antennas <a href="#">H01Q 19/30</a> )	H01Q 19/30, H01Q 21/12
M	H01Q 21/14	4	Adcock antennas	
M	H01Q 21/22	2	Antenna units of the array energised non-uniformly in amplitude or phase, e.g. tapered array or binomial array	
M	H01Q 21/24	1	Combinations of antenna units polarised in different directions for transmitting or receiving circularly and elliptically polarised waves or waves linearly polarised in any direction {(circularly polarised patch antennas <a href="#">H01Q 9/0428</a> ; circularly polarised horns <a href="#">H01Q 13/0241</a> ; cross-polarised horns <a href="#">H01Q 13/0258</a> ; polarisation converters <a href="#">H01Q 15/242</a> ; cross-polarised rear feeds <a href="#">H01Q 19/136</a> ; crossed polarisation dual antenna <a href="#">H01Q 25/001</a> )}	
M	H01Q 21/26	2	Turnstile or like antennas comprising arrangements of three or more elongated elements disposed radially and	



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			symmetrically in a horizontal plane about a common centre	
M	H01Q 21/28	1	Combinations of substantially independent non-interacting antenna units or systems {(multiple beam H01Q 25/00)}	
M	H01Q 21/29	1	Combinations of different interacting antenna units for giving a desired directional characteristic (H01Q 25/00 takes precedence)	
M	H01Q 21/30	1	Combinations of separate antenna units operating in different wavebands and connected to a common feeder system	
M	H01Q 23/00	0	Antennas with active circuits or circuit elements integrated within them or attached to them	
M	H01Q 25/00	0	Antennas or antenna systems providing at least two radiating patterns (arrangements for changing or varying the orientation or the shape of the directional pattern H01Q 3/00)	
M	H01Q 25/02	1	providing sum and difference patterns (H01Q 25/04 takes precedence)	
M	H01Q 25/04	1	Multimode antennas {(corrugated horns H01Q 13/0208)}	

**SUBCLASS H01P – WAVEGUIDES; RESONATORS, LINES OR OTHER DEVICES OF THE WAVEGUIDE TYPE**

<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	H01P 3/20	1	Quasi-optical arrangements for guiding a wave, e.g. focusing by dielectric lenses	

\*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:

CPC Form – v.5

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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 H01Q – ANTENNAS, i.e. RADIO AERIALS**

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	H01Q 19/30		Group <a href="#">H01Q 19/30</a> is incomplete pending reclassification of documents from group <a href="#">H01Q 21/12</a> . Groups <a href="#">H01Q 21/12</a> and <a href="#">H01Q 19/30</a> should be considered in order to perform a complete search.
N	H01Q 21/12		Group <a href="#">H01Q 21/12</a> is impacted by reclassification into group <a href="#">H01Q 19/30</a> . Groups <a href="#">H01Q 21/12</a> and <a href="#">H01Q 19/30</a> 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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C. New, Modified or Deleted Note(s)

**SUBCLASS H01Q – ANTENNAS, i.e. RADIO AERIALS**

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	H01Q	This subclass covers: in addition to the primary active radiating elements, secondary devices for absorbing or for modifying the direction or polarisation of waves radiated from aerials, and combinations with auxiliary devices such as earthing switches, lead-in devices, and lightning protectors; both transmitting and receiving aerials This subclass does not cover devices of the waveguide type, such as resonators or lines, not designed as radiating elements, which are covered by subclass H01P . In this subclass, the following expression is used with the meaning indicated: "active radiating element" covers corresponding parts of a receiving aerial.	<p>1. This subclass <u>covers</u>:</p> <ul style="list-style-type: none"> <li>• in addition to the primary active radiating elements,</li> <li>i. secondary devices for absorbing or for modifying the direction or polarisation of waves radiated from antennas, and</li> <li>ii. combinations with auxiliary devices such as earthing switches, lead-in devices, and lightning protectors;</li> <li>• both transmitting and receiving antennas.</li> </ul> <p>2. This subclass <u>does not cover</u> devices of the waveguide type, such as resonators or lines, not designed as radiating elements, which are covered by subclass H01P.</p> <p>3. In this subclass, the following expression is used with the meaning indicated:</p> <ul style="list-style-type: none"> <li>• "active radiating element" covers corresponding parts of a receiving antenna.</li> </ul>
M	H01Q 1/00	This group covers only: structural details or features of aerials not dependent on electric operation; structural details or features applicable to more than one type of aerial or aerial element. Structural details or features described with reference to, or clearly applicable only to, aerials or aerial elements of a particular type are classified in the group appropriate to that type.	<p>1. This group <u>covers</u> only:</p> <ul style="list-style-type: none"> <li>• structural details or features of antennas not dependent on electric operation;</li> <li>• structural details or features applicable to more than one type of antenna or antenna element.</li> </ul> <p>2. Structural details or features described with reference to, or clearly applicable only to, antennas or antenna elements of a particular type are classified in the group appropriate to that type</p>
M	H01Q 23/00	Group H01Q23/00 includes only such combinations in which the type of aerial or aerial element is immaterial. Combinations with a particular type of aerial are classified in the group appropriate to that type.	<p>1. This group <u>covers</u> only such combinations in which the type of antenna or antenna element is immaterial.</p>

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
			2. Combinations with a particular type of antenna are classified in the group appropriate to that type.

\*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.

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## 2. A. DEFINITIONS (modified)

### H01Q

#### Relationships with other classification places

**Delete** the entire Relationships with other classification places section.

#### References:

**Insert** the following new Limiting references section:

#### Limiting references

*This place does not cover:*

Radiators or antennas for microwave heating	<a href="#">H05B 6/72</a>
---	---------------------------

**Insert** the following new Application-oriented references section:

#### Application-oriented references:

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

Cells with adaptive channel assignment	<a href="#">H04W16/02</a>
Cell structures using beam steering	<a href="#">H04W16/28</a>
Communication route or path selection based on characteristics of available wireless antennas	<a href="#">H04W 40/06</a>
Radio direction-finding; radio navigation; determining distance or velocity; locating	<a href="#">G01S</a>
Beacons or beacon systems using radio waves	<a href="#">G01S 1/02</a>
Direction-finders using radio waves	<a href="#">G01S 3/02</a>
Circuits or components for simulating antennas, e.g. dummy antenna	<a href="#">H04B 1/72</a>
Near-field transmission using leaky cable	<a href="#">H04B 5/0018</a>

#### Informative references

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**Delete** the current Informative references section.

**Insert** the following new Informative references section:

### Informative references

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

Microwave radiators for near-field therapeutic treatment	<a href="#">A61N 5/04</a>
Apparatus for testing antennas or for measuring antenna characteristics	<a href="#">G01R</a>
Radiation diagrams of antennas; antenna testing	<a href="#">G01R 29/10</a>
using anechoic chamber	<a href="#">G01R 29/105</a>
Modification of radiation pattern for cancelling noise or interfering signals	<a href="#">G01S 7/2813</a>
Means for calibrating or monitoring	<a href="#">G01S 7/40</a>
Optical elements	<a href="#">G02B</a>
Photonic crystals	<a href="#">G02B 1/005</a>
Recognition and presentation of data; record carriers; handling record carriers	<a href="#">G06K</a>
Transponder cards without electrical contacts	<a href="#">G06K 19/07749</a>
Waveguides	<a href="#">H01P</a>
Line connectors; current collectors	<a href="#">H01R</a>
Modulating electromagnetic waves in radiation field of antenna	<a href="#">H03C 7/02</a>
Impedance networks	<a href="#">H03H</a>
coupling circuits between transmission lines and antennas	<a href="#">H03H 2/005</a>
impedance-matching networks	<a href="#">H03H 7/38</a>
Hand-held transceivers	<a href="#">H04B 1/3833</a>
with reducing RF exposure	<a href="#">H04B 1/3838</a>
Radio transmission systems	<a href="#">H04B 7/00</a>
Diversity systems	<a href="#">H04B 7/02</a>
at transmitting station	<a href="#">H04B 7/06</a>

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at receiving station	H04B 7/08
Relay systems	H04B 7/14
Capacity expanding techniques	H04B 7/26
Monitoring, testing	H04B 17/00
Selecting	H04Q
Printed circuits; Casings or constructional details of electric apparatus; manufacture	H05K
screening against electric or magnetic fields	H05K 9/00

## H01Q1/00

### References

#### Informative references

**Delete** the entire Informative references section.

**Insert** the following new Limiting references section:

#### Limiting references

*This place does not cover:*

Arrangements for varying orientation of directional pattern	H01Q 3/00
---	-----------

## H01Q1/08

### References

**Insert** the following new Limiting references section:

#### Limiting references

*This place does not cover:*

Collapsible loop antennas	H01Q 7/02
---------------------------	-----------



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Collapsible H-antennas or Yagi antennas	H01Q 19/04
---	------------

## Informative references

**Delete** the following two table rows from the Informative references section.

Collapsible loop aerials	H01Q 7/02
Collapsible H-aerials or Yagi aerials	H01Q 19/04

## Special rules of classification

**Delete** “clamm-shell” and replace with “clamshell” in the Special rules section as shown below:

Not used for the extractable antennas as used on mobile phones, nor for the ~~clamm-shell~~ clamshell phones with integrated antennas.

## H01Q1/27

### References

#### Limiting references

**Delete** “aerials” and replace with “antennas” in the Limiting references section as shown below:

Means for collapsing <del>aerials</del> antennas or parts thereof	H01Q 1/08
Support; mounting means	H01Q 1/12
Means for stabilising <del>aerials</del> antennas on an unstable platform	H01Q 1/18
Portable transceivers	H04B 1/3827

**Delete** the following table row from the Limiting references section:

Portable transceivers	H04B 1/3827
-----------------------	-------------

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**Insert** the following new Informative references section:

### **Informative references**

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

Portable transceivers	<a href="#">H04B 1/3827</a>
-----------------------	-----------------------------

## **H01Q1/32**

### **Definition statement**

**Delete** “aerials” and replace with “antennas” in the sentence that appears after the image in the Definition statement as shown below:

NOT the windscreen ~~aerials~~ **antennas**.

### **References**

#### **Limiting references**

**Delete** the entire Limiting references section.

**Insert** the following new Informative references section:

### **Informative references**

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

Telescopic elements	<a href="#">H01Q 1/10</a>
Resilient mountings for antennas	<a href="#">H01Q 1/20</a>

## **H01Q1/34**

### **References**

#### **Limiting references**

**Delete** the following table row from the Limiting references section:

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Retractable loop aerials

[H01Q 7/02](#)**Insert** the following new Informative references section:**Informative references***Attention is drawn to the following places, which may be of interest for search:*

Retractable loop antennas

[H01Q7/02](#)**H01Q1/36****References****Limiting references****Delete** the following table row from the Limiting references section:

Device acting selectively as reflecting surface, as diffracting or as refracting device e.g. frequency filtering or angular spatial filtering devices

[H01Q 15/0006](#)**Insert** the following new Informative references section:**Informative references***Attention is drawn to the following places, which may be of interest for search:*

Device acting selectively as reflecting surface, as diffracting or as refracting device e.g. frequency filtering or angular spatial filtering devices

[H01Q 15/0006](#)**H01Q1/38****References****Limiting references****Delete** the following table row from the Limiting references section:

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Conductors in general	<a href="#">H01B 5/14</a>
-----------------------	---------------------------

**Insert** the following new Informative references section:

**Informative references:**

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

Conductors in general	<a href="#">H01B 5/14</a>
-----------------------	---------------------------

**H01Q1/44**

**References**

**Limiting references**

**Insert** the following new table row into the Limiting references section:

Adaptation for use in or on movable bodies	<a href="#">H01Q 1/27</a>
--	---------------------------

**H01Q1/52**

**Definition statement**

**Insert** the following sentence so that it appears as the first sentence in the Definition statement:

Increasing isolation between antennas.

**Synonyms and Keywords**

**Delete** the entire Synonyms and Keywords section.

**H01Q11/00**

**References**

**Limiting references**

**Delete** the following two table rows from the Limiting references section:

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Combinations of active elements with secondary devices to give desired directional characteristic	H01Q 19/00
Antenna arrays or systems	H01Q 21/00

**Delete** “aerials” and replace with “antennas” in the Limiting references section as shown below:

Leaky waveguides <del>aerials</del> antennas, slot <del>aerials</del> antennas	H01Q 13/00
--	------------

**Insert** the following new Informative references section:

**Informative references**

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

Combinations of active elements with secondary devices to give desired directional characteristic	H01Q 19/00
Antenna arrays or systems	H01Q 21/00

**H01Q11/02**

**Insert** the following new References/Limiting references section:

**References**

**Limiting references**

*This place does not cover:*

Yagi antennas	H01Q 19/30
---------------	------------

**H01Q11/04**

**References**

**Limiting references**

**Delete** “aerials” and replace with “antennas” in the current Limiting references table row as shown below:

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Rhombic <del>aerials</del> antennas, V- <del>aerials</del> antennas	H01Q 11/06
---	------------

**Insert** the following two new table rows in the Limiting references section:

Helical antennas	H01Q 11/08
Log-periodic antennas	H01Q 11/10

## H01Q11/14

**Insert** the following new References/Limiting references section:

**References**

**Limiting references**

*This place does not cover:*

V-antennas	H01Q 11/20
------------	------------

## H01Q13/0208

**Insert** the following new References/Limiting references section:

**References**

**Limiting references**

*This place does not cover:*

Waveguide mouth antenna with corrugated flange	H01Q 13/065
Manufacturing details	H01Q 13/0283

## H01Q13/0233

**Insert** the following new References/Limiting references section:

**References**

**Limiting references**

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*This place does not cover:*

Biconical horns	<a href="#">H01Q 13/06</a>
-----------------	----------------------------

## H01Q13/103

### References

#### Limiting references

**Delete** the entire Limiting references section.

**Insert** the following new Informative references section:

#### Informative references

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

with variable reactance for tuning the antenna	<a href="#">H03J</a>
--	----------------------

## H01Q13/20

### References

#### Limiting references

**Delete** the entire Limiting references section.

**Insert** the following new Informative references section:

#### Informative references

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

varying the phase velocity	<a href="#">H01Q 3/443</a>
near-field transmission systems using leaky cable	<a href="#">H04B 5/0018</a>

## H01Q13/28

### References

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## Limiting references

**Delete** the entire Limiting references section.

**Insert** the following new Informative references section:

### Informative references

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

Elements, conductive elements forming artificial dielectric	<a href="#">H01Q19/30</a>
---	---------------------------

## H01Q15/00

### References

#### Informative references

**Delete** the entire Informative references section.

**Insert** the following new Limiting references section:

#### Limiting references

*This place does not cover:*

Variable for purpose of altering directivity	<a href="#">H01Q 3/00</a>
Arrangements of such devices for guiding waves	<a href="#">H01P 3/20</a>
Variable for purpose of modulation	<a href="#">H03C 7/02</a>

## H01Q15/10

### References

#### Limiting references

**Delete** the entire Limiting references section.

**Insert** the following new Informative references section:

#### Informative references



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

leaky-waveguide antennas	<a href="#">H01Q 13/28</a>
--------------------------	----------------------------

## H01Q15/14

### References

#### Limiting references

**Delete** the following table row from the Limiting references section:

Radar-reflecting targets in general	<a href="#">F41J 2/00</a>
-------------------------------------	---------------------------

**Insert** the following new Informative references section:

#### Informative references

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

Radar-reflecting targets in general	<a href="#">F41J 2/00</a>
-------------------------------------	---------------------------

## H01Q15/22

### Definition statement

**Delete** the semicolon from the second paragraph of the Definition statement and replace it with a comma as shown below:

For example, double gridded reflector.

### References

#### Limiting references

**Delete** the entire Limiting references section.

**Insert** the following new Informative references section:

#### Informative references

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

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in combination with polarising devices	<a href="#">H01Q 15/24</a>
--	----------------------------

## H01Q19/18

### References

#### Limiting references

**Delete** the following table rows from the Limiting references section:

surfaces of convex toroidal shape	<a href="#">H01Q 19/102</a>
using a deflecting plane mirror	<a href="#">H01Q 19/104</a>
splash plate feeds	<a href="#">H01Q 19/134</a>

**Insert** the following new Informative references section:

#### Informative references

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

surfaces of convex toroidal shape	<a href="#">H01Q 19/102</a>
using a deflecting plane mirror	<a href="#">H01Q 19/104</a>
splash plate feeds	<a href="#">H01Q 19/134</a>

#### Special rules of classification

**Delete** the entire Special rules of classification section.

## H01Q21/00

### References

#### Limiting references

**Delete** the following table rows from the Limiting references section:

Combination of imbricated antennas or arrays operating on different wavebands	<a href="#">H01Q 5/40</a>
Electrically-long antennas	<a href="#">H01Q 11/00</a>

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**Insert** the following new Informative references section:

### **Informative references**

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

Combination of imbricated antennas or arrays operating on different wavebands	<a href="#">H01Q 5/40</a>
Electrically-long antennas	<a href="#">H01Q 11/00</a>

### **Synonyms and Keywords**

**Delete** the following bulleted text from the Synonyms and Keyword section:

- "array antenna" and "antenna array"

**Insert** the following new table in the Synonyms and Keyword section:

array antenna	antenna array
---------------	---------------

## **H01Q 21/06**

### **References**

#### **Limiting references**

**Delete** the entire Limiting references section.

**Insert** the following new Informative references section:

### **Informative references**

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

varying the relative phase or relative amplitude of energisation between two or more active radiating elements; varying the distribution of energy across a radiating aperture	<a href="#">H01Q 3/26</a> and subgroups
--	---

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## H01Q21/12

### References:

### Limiting references:

**Delete** all current table rows in the Limiting references section.

**Insert** the following new table rows in the Limiting references section:

Non-resonant antennas, e.g. travelling-wave antennas	H01Q 11/02
Travelling-wave antennas comprising transmission line loaded with transverse elements, e.g. "fishbone" antenna	H01Q 11/04
Yagi antennas	H01Q 19/30

### Special rules of classification

**Delete** the entire Special rules of classification section.

## H01Q 21/24

### References

### Limiting references

**Delete** "cross-polarised rear feeds" and replace the deleted text with "polarisation converters" in the Limiting references section as shown in the table row below:

<del>cross-polarised rear feeds</del> polarisation converters	H01Q 15/242
---	-------------

**Delete** "crossed polarisation dual antenna" and replace the deleted text with "cross-polarised rear feeds" in the Limiting references section as shown in the table row below:

<del>crossed polarisation dual antenna</del> cross-polarised rear feeds	H01Q 19/136
---	-------------

## H01Q 21/29

### References

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### Limiting references

**Delete** “Combinations of different interacting aerial units for giving a desired directional characteristic” and replace the deleted text with “Antennas or antenna systems providing at least two radiating patterns” in the Limiting references section as shown in the table row below:

Combinations of different interacting aerial units for giving a desired directional characteristic Antennas or antenna systems providing at least two radiating patterns	H01Q 25/00
---	------------

## H01Q25/00

### References

**Delete** the entire Informative references section.

**Insert** the following new Limiting references section:

### Limiting references:

*This place does not cover:*

Arrangements for changing or varying the orientation or the shape of the directional pattern	H01Q 3/00
--	-----------

## H01Q3/26

### References

### Limiting references

**Delete** the following table rows from the Limiting references section:

Arrangements for changing or varying the orientation or the shape of the directional pattern of the waves radiated from an aerial or aerial system	H01Q 3/00
Using mechanical relative movement between primary active elements and secondary devices of aeriels or aerial systems	H01Q 3/12

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**Delete** “aerials” and replace with “antennas” in the current Limiting references table row as shown below:

Arrangements for changing or varying the orientation or the shape of the directional pattern of the waves radiated from an <del>aerial</del> antenna or <del>aerial</del> antenna system, e.g. using mechanical relative movement between primary active elements and secondary devices of <del>aerials</del> antennas or <del>aerial</del> antenna systems	H01Q 3/12
---	-----------

### Informative references:

**Delete** the following table row from the Informative references section:

Use of steered beams for mobile service area coverage steering	H04Q 7/3615
--	-------------

**Insert** the following table row into the Informative references section:

Network planning using cell structures using beam steering	H04W 16/28
--	------------

## H01Q5/00

### Definition statement

**Delete** the second paragraph in the Definition statement:

Antennas with (inherent) broadband characteristics are classified in the antenna type, e.g. folded or loaded or extended surface monopole antennas with broadband are classified in the relevant antenna type groups.

### References

### Limiting references

**Delete** the following table rows from the Limiting references section:

Ground plane features per se	H01Q 1/48
The changing per se of electrical (for example by switching) or physical length of the antenna	H01Q 9/14

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**Insert** the following table row into the Limiting references section:

Combinations of separate active antenna units operating in different wavebands and connected to a common feeder system	<a href="#">H01Q 21/30</a>
--	----------------------------

### **Informative references:**

**Insert** the following two table rows into the Informative references section:

Ground plane features per se	<a href="#">H01Q 1/48</a>
The changing per se of electrical (for example by switching) or physical length of the antenna	<a href="#">H01Q 9/14</a>

**Insert** the new Special rules of classification section:

### **Special rules of classification:**

Antennas with (inherent) broadband characteristics are classified in the antenna type, e.g. folded or loaded or extended surface monopole antennas with broadband are classified in the relevant antenna type groups.

## **H01Q5/20**

### **References**

#### **Limiting references**

**Delete** the entire Limiting references section.

**Insert** the following new Informative references section:

#### **Informative references**

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

The achievement of operation on two or more different wavebands	<a href="#">H01Q 5/30</a> , <a href="#">H01Q 5/40</a> , <a href="#">H01Q 5/50</a>
---	---

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## H01Q7/005

**Insert** the following new References/Informative references section:

### References

### Informative references

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

Tuning resonant circuits	<a href="#">H03J</a>
--------------------------	----------------------

## H01Q 7/04

### Definition statement

**Delete** the space following “G08B13/2402” in the sentence that appears immediately after the image in the Definition statement:

Application for article surveillance ([G08B13/2402](#), [G08B13/2402](#)-).

### References

### Limiting references

**Delete** “aerials” and replace with “antennas” in the current Limiting references table rows as shown below:

Collapsible <del>aerials</del> antennas; Retractable <del>aerials</del> antennas	H01Q 7/02
Loop <del>aerials</del> antennas with a substantially uniform current distribution around the loop and having a directional radiation pattern in a plane perpendicular to the plane of the loop with core of ferromagnetic material	H01Q 7/06

### Synonyms and Keywords

**Delete** the following text in the Synonyms and Keywords section:

*In patent document the following words are often used:*

Shielded, electrostatic shielding.

**Insert** the following text in the Synonyms and Keywords section:



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*In patent documents, the following words/expressions are often used as synonyms:*

- shielding, electrostatic shielding

## H01Q9/00

**Insert** the following new References/Informative references section:

### References

### Informative references

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

Loop antennas	H01Q 7/00
Waveguide horns or mouths; Slot antennas	H01Q 13/00
Combinations of active elements with secondary devices to give desired directional characteristic	H01Q 19/00
Combinations of two or more active elements	H01Q 21/00

## H01Q9/045

**Insert** the following new References/Limiting references section:

### References

### Limiting references

*This place does not cover:*

Feeding means for circular polarisation	H01Q 9/0428
---	-------------

## H01Q9/065

**Insert** the following new References/Limiting references section:

### References

### Limiting references

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*This place does not cover:*

Patch antennas	<a href="#">H01Q 9/0407</a>
----------------	-----------------------------

**Synonyms and Keywords****Delete** the following text from the Synonyms and Keywords section:*In patent documents, the following words/expressions are often used as synonyms:*

"strip dipole", "printed dipole", "monopole strip" and "microstrip antenna with dipole resonator"

**Insert** the following text into the Synonyms and Keywords section:*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:*

strip dipole	"printed dipole", "monopole strip" and "microstrip antenna with dipole resonator"
--------------	---

**H01Q9/14****Insert** the following new References/Limiting references section:**References****Limiting references***This place does not cover:*

Telescopic elements	<a href="#">H01Q 1/10</a>
---------------------	---------------------------

**Delete** the entire Special rules of classification section.**H01Q9/16****Insert** the following new References/Limiting references section:**References**

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**Limiting references***This place does not*

with a plurality of divergent straight elements, e.g. V-dipole, X-antenna; with a plurality of elements having mutually inclined substantially straight portions	<a href="#">H01Q 9/44</a>
--	---------------------------

**H01Q 9/26****Insert** the following new References/Limiting references section:**References****Limiting references***This place does not cover:*

Resonant loop antennas	<a href="#">H01Q 7/00</a>
------------------------	---------------------------

**H01Q9/28****Insert** the following new References/Limiting references section:**References****Limiting references***This place does not cover:*

Waveguide horns or mouths; slot antennas	<a href="#">H01Q 13/00</a>
--	----------------------------

**H01Q9/285****Insert** the following new References/Limiting references section:**References****Limiting references***This place does not cover:*

Patch antennas	<a href="#">H01Q 9/0407</a>
----------------	-----------------------------

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Microstrip dipole antennas	<a href="#">H01Q 9/065</a>
----------------------------	----------------------------

## H01Q9/44

### References

#### Limiting references

**Delete** the following table row from the Limiting references section:

with plurality of elements having mutually inclined substantially straight portions	<a href="#">H01Q 21/26</a>
---	----------------------------

**Insert** the following new table rows into the Limiting references section:

Combinations of two or more active elements	<a href="#">H01Q 21/00</a>
Turnstile antennas	<a href="#">H01Q 21/26</a>

**Delete** the entire Informative references section.

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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	H01Q 21/12	H01Q 19/30, H01Q 21/12

\* 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”.