

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 921

DATE: AUGUST 1, 2020

PROJECT MP0426

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Titles Changed:	H04B	SUBCLASS
	H04B	1/00, 1/02, 1/03, 1/034, 1/036, 1/04, 1/06, 1/10, 1/12, 1/16, 1/20, 1/59, 1/62, 1/64, 1/66, 1/68
	H04B	3/00, 3/03, 3/04, 3/26, 3/36, 3/58
	H04B	7/155, 7/216
	H04B	10/2575, 10/2581, 10/27, 10/532, 10/61
	H04B	13/02
	H04B	14/02, 14/04, 14/06
	H04B	15/02, 15/04
DEFINITIONS:		
Definitions New:	H04B	1/02, 1/036, 1/06, 1/59, 1/62, 1/64, 1/66, 1/68
	H04B	3/03, 3/04, 3/26, 3/36, 3/58
	H04B	14/02, 14/04, 14/06
Definitions Modified:	H04B	1/00, 1/03, 1/034, 1/04, 1/10, 1/12,
	H04B	3/00
	H04B	7/155, 7/216
	H04B	10/2575, 10/2581, 10/27
	H04B	13/02
	H04B	15/04

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)

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- 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)

H04B- TRANSMISSION

<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>
M	H04B	Subclass	TRANSMISSION	
M	H04B 1/00	0	Details of transmission systems, not covered by a single one of groups H04B3/00 - H04B13/00; Details of transmission systems not characterised by the medium used for transmission	
M	H04B 1/02	1	Transmitters	
M	H04B 1/03	2	Constructional details, e.g. casings, housings	
M	H04B 1/034	3	Portable transmitters	
M	H04B 1/036	3	Cooling arrangements	
M	H04B 1/04	2	Circuits	
M	H04B 1/06	1	Receivers	
M	H04B 1/10	2	Means associated with receiver for limiting or suppressing noise or interference	
M	H04B 1/12	3	Neutralising, balancing, or compensation arrangements	
M	H04B 1/16	2	Circuits	
M	H04B 1/20	3	for coupling gramophone pick-up, recorder output, or microphone to receiver	
M	H04B 1/59	1	Responders; Transponders	
M	H04B 1/62	1	for providing a predistortion of the signal in the transmitter and corresponding correction in the receiver, e.g. for improving the signal/noise ratio	
M	H04B 1/64	2	Volume compression or expansion arrangements	
M	H04B 1/66	1	for reducing bandwidth of signals; for improving efficiency of transmission (H04B1/68 takes precedence)	
M	H04B 1/68	1	for wholly or partially suppressing the carrier or one side band	
M	H04B 3/00	0	Line transmission systems (combined with near-field transmission systems H04B 5/00)	
M	H04B 3/03	2	Hybrid circuits (for transceivers H04B 1/52, H04B 1/58)	
M	H04B 3/04	2	Control of transmission; Equalising	

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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#
M	H04B 3/26	2	Improving frequency characteristic by the use of loading coils	
M	H04B 3/36	2	Repeater circuits (H04B 3/58 takes precedence)	
M	H04B 3/58	2	Repeater circuits	
M	H04B 7/155	3	Ground-based stations (-H04B7/204 takes precedence)	
M	H04B 7/216	4	Code division or spread-spectrum multiple access {[CDMA, SSMA]}	
M	H04B 10/2575	2	Radio-over-fibre, e.g. radio frequency signal modulated onto an optical carrier	
M	H04B 10/2581	2	Multimode transmission	
M	H04B 10/27	1	Arrangements for networking	
M	H04B 10/532	3	Polarisation modulation	
M	H04B 10/61	2	Coherent receivers	
M	H04B 13/02	1	Transmission systems in which the medium consists of the earth or a large mass of water thereon, e.g. earth telegraphy	
M	H04B 14/02	1	characterised by the use of pulse modulation (in radio transmission relays H04B 7/17)	
M	H04B 14/04	2	using pulse code modulation	
M	H04B 14/06	2	using differential modulation, e.g. delta modulation	
M	H04B 15/02	1	Reducing interference from electric apparatus by means located at or near the interfering apparatus	
M	H04B 15/04	2	the interference being caused by substantially sinusoidal oscillations, e.g. in a receiver or in a tape-recorder	

*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.

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- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “<administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or <administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

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2. A. DEFINITIONS (new)

Insert: the following new Definitions.

H04B 1/02

References

Informative references

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

Spatial arrangements of component circuits in radio pills for living beings	A61B5/07
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H04B 1/036

References

Informative references

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

Cooling transformers	H01F27/08
Cooling discharge tubes	H01J7/24 , H01J19/74

H04B 1/06

References

Informative references

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

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Control of amplification	H03G
Television receivers	H04N 5/44 , H04N 5/64

H04B 1/59

References

Informative references

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

Relay systems	H04B7/14
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H04B 1/62

References

Informative references

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

For optical transmitters	H04B10/58
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H04B 1/64

References

Informative references

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

For amplifiers	H03G7/00
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H04B 1/66

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

In pictorial communication systems	H04N
Vocoders	G10L

H04B 1/68**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Modulator circuits	H03C1/52 , H03C1/60
Single sideband receivers	H04B1/302
For data transmission	H04L 27/02

H04B 3/03**References****Limiting references***This place does not cover:*

For transceivers	H04B 1/52 , H04B 1/58
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Informative references*Attention is drawn to the following places, which may be of interest for search:*

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Hybrid junctions of the waveguide type	H01P5/16
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H04B 3/04

References

Informative references

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

Control of amplification in general	H03G
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H04B 3/26

References

Informative references

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

Loading coils per se	H01F17/08
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H04B 3/36

References

Limiting references

This place does not cover:

Repeater circuits	H04B 3/58
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Informative references

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

Amplifiers therefor	H03F
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H04B 3/58

References

Informative references

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

Amplifiers therefor	H03F
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H04B 14/02

References

Limiting references

This place does not cover:

in radio transmission relays	H04B 7/17
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Informative references

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

Transmission of digital information per se	H04L
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H04B 14/04

References

Informative references

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

Analogue/digital or digital/analogue conversion per se	H03M1/00
For TV signals	H04N7/24

H04B 14/06

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References

Informative references

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

Conversion of analogue values to or from differential modulation	H03M3/00
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2. A. DEFINITIONS (modified)

H04B 3/00

References

Limiting references

This place does not cover:

Delete: all references EXCEPT the following reference from the Limiting references table.

Near-field transmission system	H04B5/00
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Informative references

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

Insert: the following 16 new references in the existing Informative references table.

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Electricity meters	G01R22/06
Testing cables properties	G01R31/00
Alarm system using power transmission lines	G08B25/06
Load coils	H01F17/08
Hybrid junctions of waveguide	H01P5/16
Control of amplification in general	H03G
Transversal Filters	H03H15/00
Hybrid circuits for transceivers	H04B1/52 , H04B1/58
Wireless repeater	H04B7/155
Suppression or limitation of noise or interference	H04B15/00
Power over Ethernet	H04L12/10
Extract feeding power from signals	H04L25/02
Decision Feedback Equalizers	H04L25/03057
Shaping frequency spectrum at the transmitter	H04L25/03343
Line Equalizers	H04L25/03878
Acoustic echo cancellation	H04M9/082

H04B 7/216

Delete: the entire Relationships with other classification places section.

Insert: a new Informative references section with the following reference.

References

Informative references

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

Spread spectrum techniques in general	H04B 1/69
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H04B 10/2575

References

Delete: the entire Limiting references section.

Insert: a new Informative references section with the following reference.

Informative references

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

Sub-carrier multiplexing	H04J 14/0298
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H04B 10/2581

References

Delete: the entire Limiting references section.

Insert: a new Informative references section with the following reference.

Informative references

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

Mode multiplex systems	H04J 14/04
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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>
H04B 1/00	Limiting references	Demodulation or transference of modulation from one carrier to another H03D	<u>Delete</u> the entire section.
H04B 1/00	Informative references		<u>Insert</u> the following two new references in the existing Informative references table. Tuning resonant circuits H03J Demodulation or transference of modulation from one carrier to another H03D
H04B 1/03	Limiting references	Arrangements or equipments adapted for airplanes B64D	<u>Delete</u> the entire section.
H04B 1/03			<u>Insert</u> a new Informative references section with the following reference. Informative references <i>Attention is drawn to the following places, which may be of interest for search:</i> Arrangements or equipments adapted for airplanes B64D
H04B 1/034	Limiting references	Means for indicating the location of accidentally	<u>Delete</u> the entire section.

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		buried persons A63B 29/021 Distress beacons G01S 1/68	
H04B 1/034			<p><u>Insert</u> a new Informative references section with the following two references.</p> <p>Informative references</p> <p><i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Means for indicating the location of accidentally buried persons A63B 29/021</p> <p>Distress beacons G01S 1/68</p>
H04B 1/04	Informative references	Power supplies H04B 1/1607 Oscillators H03B Modulators H03C 1/00, H03C 3/00, H03C 5/00 Amplifiers H03F	<p><u>Insert</u> the following reference in the existing Informative references table.</p> <p>Of television transmitters H04N 5/38</p>
H04B 1/10	Limiting references	Interference reduction in spread spectrum systems H04B1/7097 Equalising on HF or IF H04B7/005	<u>Delete</u> the entire section.
H04B 1/10	Informative references	Diversity systems H04B 7/02 Elimination of image frequencies H03D 7/18	<p><u>Insert</u> the following two references in the existing Informative references table.</p> <p>Spread spectrum systems</p>

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		Noise suppression by control of amplification H03G 3/00, H03G 5/00, H03G 7/00 Squelching H03G 3/26, H03G 3/34	H04B 1/7097 Equalising on HF or IF H04B 7/005
H04B 1/12	Limiting references	Balancing ripple filters H04B15/005, H02M1/143	<u>Delete</u> the entire section.
H04B 1/12			<u>Insert</u> a new Informative references section with the following reference. Informative references <i>Attention is drawn to the following places, which may be of interest for search:</i> Balancing ripple filters H04B 15/005 , H02M 1/143
H04B 7/155	Limiting references	Ground-based stations for satellite systems H04B 7/18517	<u>Delete</u> the following reference. Ground-based stations for satellite systems H04B 7/18517 <u>Insert</u> the following reference in the existing Limiting references table: Multiple access H04B 7/204
H04B 7/155			<u>Insert</u> a new Informative references section with the following reference. Informative references

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			<p><i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Ground-based stations for satellite systems H04B 7/18517</p>
H04B 10/27			<p><u>Insert</u> a new Informative references section with the following three references.</p> <p>Informative references</p> <p><i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Free-space networks H04B 10/11</p> <p>WDM networks H04J 14/0278</p> <p>Specific to radio-over-fibre H04B 10/25753</p>
H04B 13/02			<p><u>Insert</u> a new Informative references section with the following five references.</p> <p>Informative references</p> <p><i>Attention is drawn to the following places, which may be of interest for search:</i></p>

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			<p>Line transmission systems with earth or water return H04B 3/00</p> <p>Geophysics, detecting hidden masses G01H, G01V 1/16, G01V 1/18, G01V 3/00</p> <p>Sonars G01S 1/72</p> <p>Applications of earth currents G01S 1/72, H05F 7/00</p> <p>Direction and distance determination with lead cables G01S 13/00</p>
H04B 15/04	Informative references		<p><u>Insert</u> the following reference in the existing Informative references table.</p> <p>Screening H05K 9/00</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.