

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 364

DATE: FEBRUARY 1, 2016

PROJECT RP0404

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

| <u>Action*</u> | <u>Subclass</u> | <u>Group(s)</u> |
|------------------------------|-----------------|-----------------|
| Title wording change: | H04B | 7/02 |
| | H04B | 7/022 |
| | H04B | 7/024 |
| | H04B | 7/026 |
| | H04B | 7/04 |
| | H04B | 7/0404 |
| | H04B | 7/0408 |
| | H04B | 7/0413 |
| | H04B | 7/0417 |
| | H04B | 7/0426 |
| | H04B | 7/0452 |
| | H04B | 7/0456 |
| | H04B | 7/0491 |
| | H04B | 7/0495 |
| | H04B | 7/06 |
| | H04B | 7/08 |
| | H04B | 7/10 |
| | H04B | 7/12 |
| | H04B | 7/14 |
| | H04B | 7/145 |
| | H04B | 7/24 |

No other subclasses/groups are impacted by this Notice of Changes.

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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 Notice(s)
 - C. New, Modified or Deleted Note(s)
 - D. New, Modified or Deleted Guidance Heading(s)
2. DEFINITIONS (New or Modified)
 - A. DEFINITIONS (Full definition template)
 - B. DEFINITIONS (Definitions Quick Fix)
3. REVISION CONCORDANCE LIST (RCL)
4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5. CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS H04B - TRANSMISSION

| <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> |
|--------------|---------------|---|--|------------------------|
| U | H04B7/00 | 0 | Radio transmission systems, i.e. using radiation field (H04B 10/00, H04B 15/00 take precedence) | |
| M | H04B7/02 | 1 | Diversity systems; Multi-antenna systems, i.e. transmission or reception using multiple antennas | |
| M | H04B7/022 | 2 | Site diversity; Macro-diversity (using two or more spaced independent antennas H04B 7/04) | |
| M | H04B7/024 | 3 | Co-operative use of antennas of several sites, e.g. in co-ordinated multipoint or co-operative multiple-input multiple-output [MIMO] systems | |
| M | H04B7/026 | 3 | Co-operative diversity, e.g. using fixed or mobile stations as relays | |
| M | H04B7/04 | 2 | using two or more spaced independent antennas | |
| M | H04B7/0404 | 3 | the mobile station comprising multiple antennas, e.g. to provide uplink diversity | |
| M | H04B7/0408 | 3 | using two or more beams, i.e. beam diversity | |
| M | H04B7/0413 | 3 | MIMO systems | |
| M | H04B7/0417 | 4 | Feedback systems | |
| M | H04B7/0426 | 4 | Power distribution | |
| M | H04B7/0452 | 4 | Multi-user MIMO systems | |
| M | H04B7/0456 | 4 | Selection of precoding matrices or codebooks, e.g. using matrices antenna weighting | |
| M | H04B7/0491 | 3 | using two or more sectors, i.e. sector diversity | |
| M | H04B7/0495 | 4 | using overlapping sectors in the same base station to implement MIMO for antennas | |
| M | H04B7/06 | 3 | at the transmitting station | |
| M | H04B7/08 | 3 | at the receiving station | |
| M | H04B7/10 | 2 | Polarisation diversity; Directional diversity | |
| M | H04B7/12 | 2 | Frequency diversity | |
| M | H04B7/14 | 1 | Relay systems | |
| M | H04B7/145 | 2 | Passive relay systems | |

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| <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 | H04B7/24 | 1 | for communication between two or more posts (wireless communication networks H04W) | |

*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”.

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

| <u>CPC</u> | <u>IPC</u> | <u>Action*</u> |
|-------------|-------------|----------------|
| H04B 7/022 | H04B 7/022 | UPDATE |
| H04B 7/024 | H04B 7/024 | UPDATE |
| H04B 7/026 | H04B 7/026 | UPDATE |
| H04B 7/0404 | H04B 7/0404 | UPDATE |
| H04B 7/0408 | H04B 7/0408 | UPDATE |
| H04B 7/0413 | H04B 7/0413 | UPDATE |
| H04B 7/0417 | H04B 7/0417 | UPDATE |
| H04B 7/0426 | H04B 7/0426 | UPDATE |
| H04B 7/0452 | H04B 7/0452 | UPDATE |
| H04B 7/0456 | H04B 7/0456 | UPDATE |
| H04B 7/0491 | H04B 7/0491 | UPDATE |
| H04B 7/0495 | H04B 7/0495 | UPDATE |

*Action column:

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

NOTES:

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