

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 171

DATE: FEBRUARY 1, 2016

PROJECT RP0312

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
Symbol deleted pending reclassification (frozen (F)):	H02J	17/00
Symbols newly created:	H02J	50/00
	H02J	50/05
	H02J	50/10
	H02J	50/12
	H02J	50/15
	H02J	50/20
	H02J	50/23
	H02J	50/27
	H02J	50/30
	H02J	50/40
	H02J	50/50
	H02J	50/60
	H02J	50/70
	H02J	50/80
	H02J	50/90
Scheme Warning Notices to be added:	H02J	5/00
	H02J	5/005
	H02J	7/02
	H02J	7/025
	H02J	17/00
	H02J	50/00
Scheme Notes to be added:	H02J	subclass
	H02J	50/00

The following subclasses/groups are also impacted by this Notice of Changes (indicate subclasses/groups outside of the project scope, such as those listed in the CRL):

B61B3/00, B61B13/00, H02J5/005, H02J7/025, H02J17/00, H03K17/94

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)

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- 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 H02J – CIRCUIT ARRANGEMENTS OR SYSTEMS FOR SUPPLYING OR DISTRIBUTING ELECTRIC POWER; SYSTEMS FOR STORING ELECTRIC ENERGY**

<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>
C	H02J5/00	0	Circuit arrangements for transfer of electric power between ac networks and dc networks (H02J3/36 takes precedence)	H02J5/00, H02J50/00– H02J50/90
C	H02J5/005	1	{ with inductive power transfer (for charging H02J7/025) }	H02J5/005, H02J50/00– H02J50/90
U	H02J7/00	0	Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries	
C	H02J7/02	1	for charging batteries from ac mains by converters	H02J7/02, H02J50/00– H02J50/90
C	H02J7/025	3	{ using non-contact coupling, e.g. inductive, capacitive }	H02J7/025, H02J50/00– H02J50/90
F	H02J17/00	0	Systems for supplying or distributing electric power by electromagnetic waves	H02J50/00– H02J50/90
N	H02J50/00	0	Circuit arrangements or systems for wireless supply or distribution of electric power	
N	H02J50/05	1	using capacitive coupling	
N	H02J50/10	1	using inductive coupling	
N	H02J50/12	2	of the resonant type	
N	H02J50/15	1	using ultrasonic waves	
N	H02J50/20	1	using microwaves or radio frequency waves	
N	H02J50/23	2	characterised by the type of transmitting antennas, e.g. directional array antennas or Yagi antennas	
N	H02J50/27	2	characterised by the type of receiving antennas, e.g. rectennas	
N	H02J50/30	1	using light, e.g. lasers	
N	H02J50/40	1	using two or more transmitting or receiving devices (H02J50/50 takes precedence)	
N	H02J50/50	1	using additional energy repeaters between transmitting devices and receiving devices	
N	H02J50/60	1	responsive to the presence of foreign objects, e.g. detection of living beings	
N	H02J50/70	1	involving the reduction of electric, magnetic or electromagnetic leakage fields	

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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>
N	H02J50/80	1	involving the exchange of data, concerning supply or distribution of electric power, between transmitting devices and receiving devices	
N	H02J50/90	1	involving detection or optimisation of position, e.g. alignment	

*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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B. New, Modified or Deleted Warning notice(s)

SUBCLASS H02J – CIRCUIT ARRANGEMENTS OR SYSTEMS FOR SUPPLYING OR DISTRIBUTING ELECTRIC POWER; SYSTEMS FOR STORING ELECTRIC ENERGY

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	H02J5/00		Group H02J5/00 is impacted by reclassification into groups H02J50/00 – H02J50/90. Groups H02J5/005 and H02J50/00 – H02J50/90 should be considered in order to perform a complete search
N	H02J5/005		Group H02J5/005 is impacted by reclassification into groups H02J50/00 – H02J50/90. Groups H02J5/005 and H02J50/00 – H02J50/90 should be considered in order to perform a complete search.
N	H02J7/02		Group H02J7/02 is impacted by reclassification into groups H02J50/00 – H02J50/90. Groups H02J7/02 and H02J50/00 – H02J50/90 should be considered in order to perform a complete search
N	H02J7/025		Group H02J7/025 is impacted by reclassification into group(s) H02J50/00 – H02J50/90. Groups H02J7/025 and H02J50/00 – H02J50/90 should be considered in order to perform a complete search.
N	H02J17/00		Group H02J17/00 is no longer used for the classification of documents as of February 1, 2016. The content of this group is being reclassified into groups H02J50/00 – H02J50/90. Groups H02J17/00 and H02J50/00 – H02J50/90 should be considered in order to perform a complete search.
N	H02J50/00		Groups H02J50/00 – H02J50/90 are incomplete pending reclassification of documents from groups H02J5/00, H02J5/005, H02J7/02 and H02J17/00. Groups H02J5/00, H02J5/005, H02J7/02 and H02J17/00 and H02J50/00 – H02J50/90 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 H02J – CIRCUIT ARRANGEMENTS OR SYSTEMS FOR SUPPLYING OR DISTRIBUTING ELECTRIC POWER; SYSTEMS FOR STORING ELECTRIC ENERGY

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	H02J	<p>1. This subclass covers:</p> <ul style="list-style-type: none"> • ac or dc mains or distribution networks; • circuit arrangements for battery supplies, including charging or control thereof, or co-ordinated supply from two or more sources of any kind; • systems for supplying or distributing electric power by electromagnetic waves. 	<p>1. This subclass <u>covers</u>:</p> <ul style="list-style-type: none"> • ac or dc mains or distribution networks; • circuit arrangements for battery supplies, including charging or control thereof, or coordinated supply from two or more sources of any kind; • circuit arrangements or systems for wireless supply or distribution of electric power.
M	H02J	<p>2. This subclass does not cover:</p> <ul style="list-style-type: none"> • control of a single motor, generator or dynamo-electric converter, of the types covered by subclass H01F or H02K, which is covered by subclass H02P; • control of a single motor or generator, of the types covered by subclass H02N, which is covered by that subclass. 	<p>2. This subclass <u>does not cover</u>:</p> <ul style="list-style-type: none"> • control of a single motor, generator or dynamo-electric converter, of the types covered by subclass H01F or H02K, which is covered by subclass H02P; • control of a single motor or generator, of the types covered by subclass H02N, which is covered by that subclass.
N	H02J50/00		<p>1. In this main group, the specific types of wireless technology used for the power transmission are covered in groups H02J50/05-H02J50/30, while aspects relevant to the circuit arrangements or systems thereof are covered in groups H02J50/40-H02J50/90.</p>
N	H02J50/00		<p>2. In this main group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its groups should be classified in each of those groups.</p>

*N = new note, M = modified note, D = deleted note

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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. 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>
H03K17/94	Informative references	H02J17/00	Insert as last row: Circuit arrangements or systems for wireless supply or distribution of electric power H02J50/00

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.

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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	H02J5/00	H02J5/00, H02J50/00, H02J50/05, H02J50/10, H02J50/12, H02J50/15, H02J50/20, H02J50/23, H02J50/27, H02J50/30, H02J50/40, H02J50/50, H02J50/60, H02J50/70, H02J50/80, H02J50/90
C	H02J5/005	H02J5/005, H02J50/00, H02J50/05, H02J50/10, H02J50/12, H02J50/15, H02J50/20, H02J50/23, H02J50/27, H02J50/30, H02J50/40, H02J50/50, H02J50/60, H02J50/70, H02J50/80, H02J50/90
C	H02J7/02	H02J7/02, H02J50/00, H02J50/05, H02J50/10, H02J50/12, H02J50/15, H02J50/20, H02J50/23, H02J50/27, H02J50/30, H02J50/40, H02J50/50, H02J50/60, H02J50/70, H02J50/80, H02J50/90
C	H02J7/025	H02J7/025, H02J50/00, H02J50/05, H02J50/10, H02J50/12, H02J50/15, H02J50/20, H02J50/23, H02J50/27, H02J50/30, H02J50/40, H02J50/50, H02J50/60, H02J50/70, H02J50/80, H02J50/90
F	H02J17/00	H02J50/00, H02J50/05, H02J50/10, H02J50/12, H02J50/15, H02J50/20, H02J50/23, H02J50/27, H02J50/30, H02J50/40, H02J50/50, H02J50/60, H02J50/70, H02J50/80, H02J50/90

* 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”.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H02J50/00	H02J50/00	NEW
H02J50/05	H02J50/05	NEW
H02J50/10	H02J50/10	NEW
H02J50/12	H02J50/12	NEW
H02J50/15	H02J50/15	NEW
H02J50/20	H02J50/20	NEW
H02J50/23	H02J50/23	NEW
H02J50/27	H02J50/27	NEW
H02J50/30	H02J50/30	NEW
H02J50/40	H02J50/40	NEW
H02J50/50	H02J50/50	NEW
H02J50/60	H02J50/60	NEW
H02J50/70	H02J50/70	NEW
H02J50/80	H02J50/80	NEW
H02J50/90	H02J50/90	NEW

*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.

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5. CROSS-REFERENCE LIST (CRL)

Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
B61B3/00	Energy transfer H02J5/00	Informative references	Replace: Circuit arrangements for transfer of electric power between ac networks and dc networks H02J5/00
B61B13/00	Energy transfer H02J5/00	Informative references	Replace: Circuit arrangements for transfer of electric power between ac networks and dc networks H02J5/00
H02J5/005	H02J17/00	Informative references	H02J50/00
H02J7/025	H02J7/025 should be applied even if charging source is not ac mains or not better specified. For example if the charging source is a photovoltaic cell, not only H02J7/35 has to be applied, but also H02J7/025. If there are relevant features about the wireless power transfer itself, then H02J5/005 or H02J17/00 must be considered for further classification.	Special rules of classification within this group	Replace text: The classification symbol H02J7/025 should be given even if the charging source is not ac mains or if it is unspecified. For example, if the charging source is a photovoltaic cell, classification is made in H02J7/35 and additionally in H02J7/025. Features regarding wireless power transfer itself are classified under H02J50/00.
H02J17/00	Inductive power transmission H02J5/005	References relevant to classification in this group	Delete table row:
H03K17/94	Wireless distribution of power H02J17/00	References relevant to classification in this group	Delete the row

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NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions **inside** the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- In addition to other changes proposed in the tables above, in the column titled “Referenced subclass or group to be changed,” **referenced D** symbols should indicate an action of “delete” or should indicate a replacement symbol and **referenced F** symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.