EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1850

DATE: JANUARY 1, 2026

PROJECT RP12824

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

Action	Subclass	Group(s)
SCHEME:		
Symbols Deleted:	H02J	7/00032, 7/00034, 7/00036, 7/00038, 7/00041, 7/00043, 7/00045, 7/00047, 7/0013, 7/0014, 7/0016, 7/0018, 7/0019, 7/0024, 7/0025, 7/0029, 7/00302, 7/00304, 7/00306, 7/00308, 7/00309, 7/0031, 7/0032, 7/0034, 7/0036, 7/0042, 7/0044, 7/0045, 7/0047, 7/0048, 7/0049, 7/005, 7/0063, 7/0068, 7/0069, 7/007, 7/0071, 7/00711, 7/00712, 7/00714, 7/00716, 7/00718, 7/007182, 7/007184, 7/007186, 7/007188, 7/00719, 7/007192, 7/007194
Symbols New:	H02J	7/40, 7/42, 7/44, 7/443, 7/445, 7/448, 7/45, 7/46, 7/47, 7/485, 7/50, 7/52, 7/54, 7/56, 7/575, 7/585, 7/60, 7/61, 7/62, 7/63, 7/64, 7/65, 7/663, 7/667, 7/68, 7/685, 7/70, 7/731, 7/751, 7/80, 7/82, 7/825, 7/84, 7/855, 7/865, 7/875, 7/90, 7/92, 7/927, 7/933, 7/94, 7/947, 7/953, 7/96, 7/963, 7/965, 7/971, 7/973, 7/975, 7/977
Titles Changed:	H02J	7/00
Warnings New:	H02J	7/40, 7/44, 7/45, 7/46

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):
H02J 7/342, B25F 5/00, B60L 3/0046, B60L 53/60, B60L 58/19, G06F 1/1632, H02H 7/00, H04R 1/1025

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)

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3. ☒ REVISION CONCORDANCE LIST (RCL)

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

5. ☒ CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

  A. New, Modified or Deleted Group(s)

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

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	H02J 7/00	0	Circuit arrangements for charging or discharging batteries or for supplying loads from batteries	
D	H02J 7/00032	1	{characterised by data exchange}	<administrative transfer to H02J 7/40>
D	H02J 7/00034	2	{Charger exchanging data with an electronic device, i.e. telephone, whose internal battery is under charge}	<administrative transfer to H02J 7/42>
D	H02J 7/00036	2	{Charger exchanging data with battery}	<administrative transfer to H02J 7/44>
D	H02J 7/00038	2	{using passive battery identification means, e.g. resistors or capacitors (identification by mechanical connections H02J7/0045)}	<administrative transfer to H02J 7/443>
D	H02J 7/00041	3	{in response to measured battery parameters, e.g. voltage, current or temperature profile}	<administrative transfer to H02J 7/445>
D	H02J 7/00043	3	{using switches, contacts or markings, e.g. optical, magnetic or barcode}	<administrative transfer to H02J 7/448>
D	H02J 7/00045	2	{Authentication, i.e. circuits for checking compatibility between one component, e.g. a battery or a battery charger, and another component, e.g. a power source}	<administrative transfer to H02J 7/47>
D	H02J 7/00047	1	{with provisions for charging different types of batteries}	<administrative transfer to H02J 7/485>
D	H02J 7/0013	1	{acting upon several batteries simultaneously or sequentially (H02J7/1423 takes precedence)}	<administrative transfer to H02J 7/50>
D	H02J 7/0014	2	{Circuits for equalisation of charge between batteries}	<administrative transfer to H02J 7/52>
D	H02J 7/0016	3	{using shunting, discharge or bypass circuits}	<administrative transfer to H02J 7/54>

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#
D	H02J 7/0018	3	{using separate charge circuits}	\<administrative transfer to H02J 7/56\>
D	H02J 7/0019	3	{using switched or multiplexed charge circuits}	\<administrative transfer to H02J 7/56\>
D	H02J 7/0024	2	{Parallel/serial switching of connection of batteries to charge or load circuit}	\<administrative transfer to H02J 7/575\>
D	H02J 7/0025	2	{Sequential battery discharge in systems with a plurality of batteries}	\<administrative transfer to H02J 7/585\>
D	H02J 7/0029	1	{with safety or protection devices or circuits}	\<administrative transfer to H02J 7/60\>
D	H02J 7/00302	2	{Overcharge protection}	\<administrative transfer to H02J 7/61\>
D	H02J 7/00304	2	{Overcurrent protection}	\<administrative transfer to H02J 7/62\>
D	H02J 7/00306	2	{Overdischarge protection}	\<administrative transfer to H02J 7/63\>
D	H02J 7/00308	2	{Overvoltage protection}	\<administrative transfer to H02J 7/64\>
D	H02J 7/00309	2	{Overheat or overtemperature protection}	\<administrative transfer to H02J 7/65\>
D	H02J 7/0031	2	{using battery or load disconnect circuits (H02J9/002 takes precedence)}	\<administrative transfer to H02J 7/663\>
D	H02J 7/0032	3	{disconnection of loads if battery is not under charge, e.g. in vehicle if engine is not running}	\<administrative transfer to H02J 7/667\>
D	H02J 7/0034	2	{using reverse polarity correcting or protecting circuits (mechanical means of polarity protection H02J7/0045)}	\<administrative transfer to H02J 7/68\>
D	H02J 7/0036	2	{using connection detecting circuits (H02J7/0034 takes precedence)}	\<administrative transfer to H02J 7/685\>
D	H02J 7/0042	1	{characterised by the mechanical construction}	\<administrative transfer to H02J 7/70\>

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#
D	H02J 7/0044	2	{specially adapted for holding portable devices containing batteries (H02J7/0045 takes precedence)}	<administrative transfer to H02J 7/731>
D	H02J 7/0045	2	{concerning the insertion or the connection of the batteries}	<administrative transfer to H02J 7/751>
D	H02J 7/0047	1	{with monitoring or indicating devices or circuits}	<administrative transfer to H02J 7/80>
D	H02J 7/0048	2	{Detection of remaining charge capacity or state of charge [SOC]}	<administrative transfer to H02J 7/82>
D	H02J 7/0049	3	{Detection of fully charged condition}	<administrative transfer to H02J 7/825>
D	H02J 7/005	2	{Detection of state of health [SOH]}	<administrative transfer to H02J 7/84>
D	H02J 7/0063	1	{with circuits adapted for supplying loads from the battery}	<administrative transfer to H02J 7/855>
D	H02J 7/0068	1	{Battery or charger load switching, e.g. concurrent charging and load supply (H02J7/0013 takes precedence)}	<administrative transfer to H02J 7/865>
D	H02J 7/0069	1	{Charging or discharging for charge maintenance, battery initiation or rejuvenation}	<administrative transfer to H02J 7/875>
D	H02J 7/007	1	{Regulation of charging or discharging current or voltage}	<administrative transfer to H02J 7/90>
D	H02J 7/0071	2	{with a programmable schedule}	<administrative transfer to H02J 7/92>
D	H02J 7/00711	2	{with introduction of pulses during the charging process}	<administrative transfer to H02J 7/927>
D	H02J 7/00712	2	{the cycle being controlled or terminated in response to electric parameters}	<administrative transfer to H02J 7/933>
D	H02J 7/00714	3	{in response to battery charging or discharging current}	<administrative transfer to H02J 7/94>
D	H02J 7/00716	4	{in response to integrated charge or discharge current}	<administrative transfer to H02J 7/947>

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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#
D	H02J 7/00718	4	{in response to charge current gradient}	<administrative transfer to H02J 7/953>
D	H02J 7/007182	3	{in response to battery voltage}	<administrative transfer to H02J 7/96>
D	H02J 7/007184	4	{in response to battery voltage gradient}	<administrative transfer to H02J 7/963>
D	H02J 7/007186	4	{obtained with the battery disconnected from the charge or discharge circuit}	<administrative transfer to H02J 7/965>
D	H02J 7/007188	2	{the charge cycle being controlled or terminated in response to non-electric parameters}	<administrative transfer to H02J 7/971>
D	H02J 7/00719	3	{in response to degree of gas development in the battery}	<administrative transfer to H02J 7/973>
D	H02J 7/007192	3	{in response to temperature}	<administrative transfer to H02J 7/975>
D	H02J 7/007194	4	{of the battery}	<administrative transfer to H02J 7/977>
U	H02J 7/36	1	Arrangements using end-cell switching	
Q	H02J 7/40	1	characterised by the exchange of charge or discharge related data	H02J 7/40, H02J 7/46
N	H02J 7/42	2	with electronic devices having internal batteries, e.g. mobile phones	
Q	H02J 7/44	2	between battery management systems and power sources	H02J 7/44, H02J 7/45
N	H02J 7/443	2	{using passive battery identification means, e.g. resistors or capacitors (identification by mechanical connections H02J 7/751)}	
N	H02J 7/445	3	{in response to measured battery parameters, e.g. voltage, current or temperature profile}	
N	H02J 7/448	3	{using switches, contacts or markings, e.g. optical, magnetic or barcode}	
N	H02J 7/45	2	between battery management systems and external servers (batteries used in smart grids for balancing of the load H02J 3/32)	
N	H02J 7/46	2	Leader-follower arrangements	
N	H02J 7/47	2	Arrangements for checking compatibility or authentication between one component, e.g. a battery or a battery charger, and another component, e.g. a power source	

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#
N	H02J 7/485	1	{with provisions for charging different types of batteries}	
N	H02J 7/50	1	acting upon multiple batteries simultaneously or sequentially	
N	H02J 7/52	2	for charge balancing, e.g. equalisation of charge between batteries	
N	H02J 7/54	3	Passive balancing, e.g. using resistors or parallel MOSFETs	
N	H02J 7/56	3	Active balancing, e.g. using capacitor-based, inductor-based or DC-DC converters	
N	H02J 7/575	2	{Parallel/serial switching of connection of batteries to charge or load circuit}	
N	H02J 7/585	2	{Sequential battery discharge in systems with a plurality of batteries}	
N	H02J 7/60	1	including safety or protection arrangements	
N	H02J 7/61	2	against overcharge	
N	H02J 7/62	2	against overcurrent	
N	H02J 7/63	2	against overdischarge	
N	H02J 7/64	2	against overvoltage	
N	H02J 7/65	2	against overtemperature	
N	H02J 7/663	2	{using battery or load disconnect circuits (H02J 9/002 takes precedence)}	
N	H02J 7/667	3	{disconnection of loads if battery is not under charge, e.g. in vehicle if engine is not running}	
N	H02J 7/68	2	using circuits for correcting or protecting against reverse-polarity	
N	H02J 7/685	2	{using connection detecting circuits (H02J 7/68 takes precedence)}	
N	H02J 7/70	1	characterised by the mechanical construction	
N	H02J 7/731	2	{specially adapted for holding portable devices containing batteries (H02J 7/751 takes precedence)}	
N	H02J 7/751	2	{concerning the insertion or the connection of the batteries}	
N	H02J 7/80	1	including monitoring or indicating arrangements	
N	H02J 7/82	2	Control of state of charge [SOC]	
N	H02J 7/825	3	{Detection of fully charged condition}	
N	H02J 7/84	2	Control of state of health [SOH]	
N	H02J 7/855	1	{with circuits adapted for supplying loads from the battery}	
N	H02J 7/865	1	{Battery or charger load switching, e.g. concurrent charging and load supply (H02J 7/50 takes precedence)}	
N	H02J 7/875	1	{Charging or discharging for charge maintenance, battery initiation or rejuvenation}	

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#
N	H02J 7/90	1	Regulation of charging or discharging current or voltage	
N	H02J 7/92	2	with prioritisation of loads or sources	
N	H02J 7/927	2	{with introduction of pulses during the charging process}	
N	H02J 7/933	2	{the cycle being controlled or terminated in response to electric parameters}	
N	H02J 7/94	2	in response to battery current	
N	H02J 7/947	3	{in response to integrated charge or discharge current}	
N	H02J 7/953	3	{in response to charge current gradient}	
N	H02J 7/96	2	in response to battery voltage	
N	H02J 7/963	3	{in response to battery voltage gradient}	
N	H02J 7/965	3	{obtained with the battery disconnected from the charge or discharge circuit}	
N	H02J 7/971	2	{the charge cycle being controlled or terminated in response to non-electric parameters}	
N	H02J 7/973	3	{in response to degree of gas development in the battery}	
N	H02J 7/975	3	{in response to temperature}	
N	H02J 7/977	4	{of the battery}	

*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.
- 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 finalization 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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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

Type*	Location	Old Warning	New/Modified Warning
N	H02J 7/40		Group H02J 7/40 is impacted by reclassification into group H02J 7/46. Groups H02J 7/40 and H02J 7/46 should be considered in order to perform a complete search.
N	H02J 7/44		Group H02J 7/44 is impacted by reclassification into group H02J 7/45. Groups H02J 7/44 and H02J 7/45 should be considered in order to perform a complete search.
N	H02J 7/45		Group H02J 7/45 is incomplete pending reclassification of documents from group H02J 7/44. Groups H02J 7/44 and H02J 7/45 should be considered in order to perform a complete search.
N	H02J 7/46		Group H02J 7/46 is incomplete pending reclassification of documents from group H02J 7/40. Groups H02J 7/40 and H02J 7/46 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.

3.   REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	H02J 7/00032	<administrative transfer to H02J 7/40>
D	H02J 7/00034	<administrative transfer to H02J 7/42>
D	H02J 7/00036	<administrative transfer to H02J 7/44>
D	H02J 7/00038	<administrative transfer to H02J 7/443>
D	H02J 7/00041	<administrative transfer to H02J 7/445>
D	H02J 7/00043	<administrative transfer to H02J 7/448>
D	H02J 7/00045	<administrative transfer to H02J 7/47>
D	H02J 7/00047	<administrative transfer to H02J 7/485>
D	H02J 7/0013	<administrative transfer to H02J 7/50>
D	H02J 7/0014	<administrative transfer to H02J 7/52>
D	H02J 7/0016	<administrative transfer to H02J 7/54>
D	H02J 7/0018	<administrative transfer to H02J 7/56>
D	H02J 7/0019	<administrative transfer to H02J 7/56>
D	H02J 7/0024	<administrative transfer to H02J 7/575>
D	H02J 7/0025	<administrative transfer to H02J 7/585>
D	H02J 7/0029	<administrative transfer to H02J 7/60>
D	H02J 7/00302	<administrative transfer to H02J 7/61>
D	H02J 7/00304	<administrative transfer to H02J 7/62>
D	H02J 7/00306	<administrative transfer to H02J 7/63>
D	H02J 7/00308	<administrative transfer to H02J 7/64>
D	H02J 7/00309	<administrative transfer to H02J 7/65>
D	H02J 7/0031	<administrative transfer to H02J 7/663>
D	H02J 7/0032	<administrative transfer to H02J 7/667>
D	H02J 7/0034	<administrative transfer to H02J 7/68>
D	H02J 7/0036	<administrative transfer to H02J 7/685>
D	H02J 7/0042	<administrative transfer to H02J 7/70>
D	H02J 7/0044	<administrative transfer to H02J 7/731>
D	H02J 7/0045	<administrative transfer to H02J 7/751>
D	H02J 7/0047	<administrative transfer to H02J 7/80>
D	H02J 7/0048	<administrative transfer to H02J 7/82>
D	H02J 7/0049	<administrative transfer to H02J 7/825>
D	H02J 7/005	<administrative transfer to H02J 7/84>
D	H02J 7/0063	<administrative transfer to H02J 7/855>
D	H02J 7/0068	<administrative transfer to H02J 7/865>
D	H02J 7/0069	<administrative transfer to H02J 7/875>
D	H02J 7/007	<administrative transfer to H02J 7/90>
D	H02J 7/0071	<administrative transfer to H02J 7/92>
D	H02J 7/00711	<administrative transfer to H02J 7/927>
D	H02J 7/00712	<administrative transfer to H02J 7/933>
D	H02J 7/00714	<administrative transfer to H02J 7/94>
D	H02J 7/00716	<administrative transfer to H02J 7/947>
D	H02J 7/00718	<administrative transfer to H02J 7/953>
D	H02J 7/007182	<administrative transfer to H02J 7/96>
D	H02J 7/007184	<administrative transfer to H02J 7/963>

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	H02J 7/007186	<administrative transfer to H02J 7/965>
D	H02J 7/007188	<administrative transfer to H02J 7/971>
D	H02J 7/00719	<administrative transfer to H02J 7/973>
D	H02J 7/007192	<administrative transfer to H02J 7/975>
D	H02J 7/007194	<administrative transfer to H02J 7/977>
Q	H02J 7/40	H02J 7/40, H02J 7/46
Q	H02J 7/44	H02J 7/44, H02J 7/45

* 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; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:
- <u>Only</u> C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the "To" column, do not use ranges of symbols.
- 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 ("To") symbol, however it is required to specify "<no transfer>" in the "To" column for such cases.
- RCL is not needed for finalisation projects.

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

CPC	**IPC**	**Action***
H02J 7/00032		DELETE
H02J 7/00034		DELETE
H02J 7/00036		DELETE
H02J 7/00038		DELETE
H02J 7/00041		DELETE
H02J 7/00043		DELETE
H02J 7/00045		DELETE
H02J 7/00047		DELETE
H02J 7/0013		DELETE
H02J 7/0014		DELETE
H02J 7/0016		DELETE
H02J 7/0018		DELETE
H02J 7/0019		DELETE
H02J 7/0024		DELETE
H02J 7/0025		DELETE
H02J 7/0029		DELETE
H02J 7/00302		DELETE
H02J 7/00304		DELETE
H02J 7/00306		DELETE
H02J 7/00308		DELETE
H02J 7/00309		DELETE
H02J 7/0031		DELETE
H02J 7/0032		DELETE
H02J 7/0034		DELETE
H02J 7/0036		DELETE
H02J 7/0042		DELETE
H02J 7/0044		DELETE
H02J 7/0045		DELETE
H02J 7/0047		DELETE
H02J 7/0048		DELETE
H02J 7/0049		DELETE
H02J 7/005		DELETE
H02J 7/0063		DELETE
H02J 7/0068		DELETE
H02J 7/0069		DELETE
H02J 7/007		DELETE
H02J 7/0071		DELETE
H02J 7/00711		DELETE
H02J 7/00712		DELETE
H02J 7/00714		DELETE
H02J 7/00716		DELETE

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CPC	IPC	Action*
H02J 7/00718		DELETE
H02J 7/007182		DELETE
H02J 7/007184		DELETE
H02J 7/007186		DELETE
H02J 7/007188		DELETE
H02J 7/00719		DELETE
H02J 7/007192		DELETE
H02J 7/007194		DELETE
H02J 7/40	H02J 7/40	NEW
H02J 7/42	H02J 7/42	NEW
H02J 7/44	H02J 7/44	NEW
H02J 7/443	H02J 7/40	NEW
H02J 7/445	H02J 7/40	NEW
H02J 7/448	H02J 7/40	NEW
H02J 7/45	H02J 7/45	NEW
H02J 7/46	H02J 7/46	NEW
H02J 7/47	H02J 7/47	NEW
H02J 7/485	H02J 7/00	NEW
H02J 7/50	H02J 7/50	NEW
H02J 7/52	H02J 7/52	NEW
H02J 7/54	H02J 7/54	NEW
H02J 7/56	H02J 7/56	NEW
H02J 7/575	H02J 7/50	NEW
H02J 7/585	H02J 7/50	NEW
H02J 7/60	H02J 7/60	NEW
H02J 7/61	H02J 7/61	NEW
H02J 7/62	H02J 7/62	NEW
H02J 7/63	H02J 7/63	NEW
H02J 7/64	H02J 7/64	NEW
H02J 7/65	H02J 7/65	NEW
H02J 7/663	H02J 7/60	NEW
H02J 7/667	H02J 7/60	NEW
H02J 7/68	H02J 7/68	NEW
H02J 7/685	H02J 7/60	NEW
H02J 7/70	H02J 7/70	NEW
H02J 7/731	H02J 7/70	NEW
H02J 7/751	H02J 7/70	NEW
H02J 7/80	H02J 7/80	NEW
H02J 7/82	H02J 7/82	NEW
H02J 7/825	H02J 7/82	NEW
H02J 7/84	H02J 7/84	NEW
H02J 7/855	H02J 7/00	NEW
H02J 7/865	H02J 7/00	NEW
H02J 7/875	H02J 7/00	NEW

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CPC	IPC	Action*
H02J 7/90	H02J 7/90	NEW
H02J 7/92	H02J 7/92	NEW
H02J 7/927	H02J 7/90	NEW
H02J 7/933	H02J 7/90	NEW
H02J 7/94	H02J 7/94	NEW
H02J 7/947	H02J 7/94	NEW
H02J 7/953	H02J 7/94	NEW
H02J 7/96	H02J 7/96	NEW
H02J 7/963	H02J 7/96	NEW
H02J 7/965	H02J 7/96	NEW
H02J 7/971	H02J 7/90	NEW
H02J 7/973	H02J 7/90	NEW
H02J 7/975	H02J 7/90	NEW
H02J 7/977	H02J 7/90	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.
- T 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)

Scheme references impacted by this revision project

Location of reference to be changed	Referenced subclass or group to be changed	Action; New reference symbol; New text
H02J 7/342	H02J 7/0034	H02J 7/68

Definitions references impacted by this revision project

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol; New text
B25F 5/00	H02J 7/0042	Informative references	H02J 7/70
B60L 3/0046	H02J 7/0029	Informative references	H02J 7/60
B60L 53/60	H02J 7/00036	Informative references	Replace reference symbol and text: Circuit arrangements characterized by the exchange of charge or discharge related data between battery management systems and power sources H02J 7/44
B60L 58/19	H02J 7/0024	Informative references	H02J 7/575
G06F 1/1632	H02J 7/0042	Informative references	H02J 7/70
H02H 7/00	H02J 7/0029	Informative references	Replace reference symbol and text: Safety devices for circuit arrangements for charging or discharging batteries H02J 7/60
H04R 1/1025	H02J 7/0042	Informative references	H02J 7/70

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.