

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1346

DATE: AUGUST 1, 2022

PROJECT RP10454

**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>		
Symbols Deleted:	H05K	5/0239
Symbols New:	H05K	5/0018, 5/0209, 5/021, 5/0211, 5/0212, 5/0214, 5/0215, 5/0216
	H05K	7/14322, 7/14324, 7/14325, 7/14327, 7/14329, 7/14337, 7/14339
	H05K	9/0029, 9/0031
Titles Changed:	H05K	5/0017, 5/0204, 5/0213, 5/0217, 5/0226
	H05K	7/1432, 7/1487, 7/1488, 7/20509, 7/20536, 7/20845
	H05K	9/0024, 9/003
Warnings New:	H05K	5/0017, 5/0018, 5/02, 5/0209, 5/0212, 5/0213, 5/0214, 5/0215, 5/0216
	H05K	7/1432, 7/14322, 7/14324, 7/14325, 7/14327, 7/14329, 7/14337, 7/14339
	H05K	9/0024, 9/003, 9/0029, 9/0031

**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)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

**SUBCLASS H05K – PRINTED CIRCUITS; CASINGS OR CONSTRUCTIONAL DETAILS OF ELECTRIC APPARATUS; MANUFACTURE OF ASSEMBLAGES OF ELECTRICAL COMPONENTS**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
U	H05K 5/00	0	Casings, cabinets or drawers for electric apparatus	
C	H05K 5/0017	1	{with operator interface units}	H05K 5/0017, H05K 5/0018
N	H05K 5/0018	2	{having an electronic display}	
C	H05K 5/02	1	Details	H05K 5/02, H05K 5/0209, H05K 5/021, H05K 5/0211, H05K 5/0212, H05K 5/0214, H05K 5/0215, H05K 5/0216
M	H05K 5/0204	2	{Mounting supporting structures on the outside of casings}	
U	H05K 5/0208	2	{Interlock mechanisms; Means for avoiding unauthorised use or function, e.g. tamperproof}	
N	H05K 5/0209	2	{Thermal insulation, e.g. for fire protection or for fire containment or for high temperature environments}	
N	H05K 5/021	3	{specially adapted for data recorders, e.g. for flight recorders}	
N	H05K 5/0211	3	{Thermal buffers, e.g. latent heat absorbers}	
N	H05K 5/0212	2	{Condensation eliminators}	
C	H05K 5/0213	2	{Venting apertures; Constructional details thereof}	H05K 5/0213, H05K 5/0209, H05K 5/021, H05K 5/0211, H05K 5/0212, H05K 5/0214, H05K 5/0215, H05K 5/0216
N	H05K 5/0214	3	{with means preventing penetration of rain water or dust (semi-permeable membranes H05K 5/0215, H05K 5/0216)}	
N	H05K 5/0215	3	{with semi-permeable membranes attached to casings}	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in { curly brackets }**</u>	<u>Transferred to#</u>
N	H05K 5/0216	3	{Venting plugs comprising semi-permeable membranes }	
M	H05K 5/0217	2	{Mechanical details of casings (covers, lids, hoods or members for covering apertures H05K 5/03)}	
M	H05K 5/0226	3	{Hinges }	
D	H05K 5/0239	3	{Lids; Hoods, e.g. members for covering aperture }	<administrative transfer to H05K 5/03>
U	H05K 5/03	2	Covers	
U	H05K 7/00	0	Constructional details common to different types of electric apparatus (casings, cabinets, drawers H05K5/00)	
U	H05K 7/14	1	Mounting supporting structure in casing or on frame or rack	
U	H05K 7/1422	2	{Printed circuit boards receptacles, e.g. stacked structures, electronic circuit modules or box like frames }	
U	H05K 7/1427	3	{Housings }	
C	H05K 7/1432	4	{specially adapted for power drive units or power converters }	H05K 7/1432, H05K 7/14322, H05K 7/14324, H05K 7/14325, H05K 7/14327, H05K 7/14329, H05K 7/14337, H05K 7/14339
N	H05K 7/14322	5	{wherein the control and power circuits of a power converter are arranged within the same casing }	
N	H05K 7/14324	5	{comprising modular units, e.g. DIN rail mounted units }	
N	H05K 7/14325	5	{for cabinets or racks }	
N	H05K 7/14327	5	{having supplementary functional units, e.g. data transfer modules or displays or user interfaces }	
N	H05K 7/14329	5	{specially adapted for the configuration of power bus bars }	
N	H05K 7/14337	5	{specially adapted for underwater operation }	
N	H05K 7/14339	5	{specially adapted for high voltage operation }	
M	H05K 7/1487	3	{Blade assemblies, e.g. blade cases or inner arrangements within a blade }	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H05K 7/1488	3	{Cabinets therefor, e.g. chassis or racks or mechanical interfaces between blades and support structures }	
M	H05K 7/20509	3	{Multiple-component heat spreaders; Multi-component heat-conducting support plates; Multi-component non-closed heat-conducting structures }	
M	H05K 7/20536	2	{for racks or cabinets of standardised dimensions, e.g. electronic racks for aircraft or telecommunication equipment }	
M	H05K 7/20845	2	{for automotive electronic casings (H05K 7/2089 takes precedence)}	
C	H05K 9/0024	4	{Shield cases mounted on a PCB, e.g. cans or caps or conformal shields }	H05K9/0024, H05K9/0029, H05K9/0031
U	H05K 9/0028	6	{with retainers or specific soldering features }	
N	H05K 9/0029	5	{made from non-conductive materials intermixed with electro-conductive particles (H05K9/0031 takes precedence)}	
C	H05K 9/003	5	{made from non-conductive materials comprising an electro-conductive coating (H05K9/0031 takes precedence)}	H05K 9/003, H05K 9/0029, H05K 9/0031
N	H05K 9/0031	5	{combining different shielding materials }	

\*N = new entries where 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.

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- 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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B. New, Modified or Deleted Warning(s)

**SUBCLASS H05K – PRINTED CIRCUITS; CASINGS OR CONSTRUCTIONAL DETAILS OF ELECTRIC APPARATUS; MANUFACTURE OF ASSEMBLAGES OF ELECTRICAL COMPONENTS**

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	H05K 5/0017		Group H05K 5/0017 is impacted by reclassification into group H05K 5/0018. Groups H05K 5/0017 and H05K 5/0018 should be considered in order to perform a complete search.
N	H05K 5/0018		Group H05K 5/0018 is incomplete pending reclassification of documents from group H05K 5/0017. Groups H05K 5/0017 and H05K 5/0018 should be considered in order to perform a complete search.
N	H05K 5/02		Group H05K 5/02 is impacted by reclassification into groups H05K 5/0209, H05K 5/021, H05K 5/0211, H05K 5/0212, H05K 5/0214, H05K 5/0215 and H05K 5/0216. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05K 5/0209		Groups H05K 5/0209 - H05K 5/0211 are incomplete pending reclassification of documents from groups H05K 5/02 and H05K 5/0213. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05K 5/0212		Group H05K 5/0212 is incomplete pending reclassification of documents from groups H05K 5/02 and H05K 5/0213. Groups H05K 5/02, H05K 5/0213 and H05K 5/0212 should be considered in order to perform a complete search.
N	H05K 5/0213		Group H05K 5/0213 is impacted by reclassification into groups H05K 5/0209, H05K 5/021, H05K 5/0211, H05K 5/0212, H05K 5/0214, H05K 5/0215 and H05K 5/0216. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05K 5/0214		Group H05K 5/0214 is incomplete pending reclassification of documents from groups H05K 5/02 and H05K 5/0213. Groups H05K 5/02, H05K 5/0213 and H05K 5/0214 should be considered in order to perform a complete search.
N	H05K 5/0215		Group H05K 5/0215 is incomplete pending reclassification of documents from groups H05K 5/02 and H05K 5/0213. Groups H05K 5/02, H05K 5/0213 and H05K 5/0215 should be considered in order to perform a complete search.
N	H05K 5/0216		Group H05K 5/0216 is incomplete pending reclassification of documents from groups H05K 5/02 and H05K 5/0213. Groups H05K 5/02, H05K 5/0213 and H05K 5/0216 should be considered in order to perform a complete search.
N	H05K 7/1432		Group H05K 7/1432 is impacted by reclassification into groups H05K 7/14322, H05K 7/14324, H05K 7/14325, H05K 7/14327, H05K 7/14329, H05K 7/14337 and H05K 7/14339. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05K 7/14322		Group H05K 7/14322 is incomplete pending reclassification of documents from group H05K 7/1432. Groups H05K 7/1432 and

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<b>Type*</b>	<b>Location</b>	<b>Old Warning</b>	<b>New/Modified Warning</b>
			H05K 7/14322 should be considered in order to perform a complete search.
N	H05K 7/14324		Group H05K 7/14324 is incomplete pending reclassification of documents from group H05K 7/1432. Groups H05K 7/1432 and H05K 7/14324 should be considered in order to perform a complete search.
N	H05K 7/14325		Group H05K 7/14325 is incomplete pending reclassification of documents from group H05K 7/1432. Groups H05K 7/1432 and H05K 7/14325 should be considered in order to perform a complete search.
N	H05K 7/14327		Group H05K 7/14327 is incomplete pending reclassification of documents from group H05K 7/1432. Groups H05K 7/1432 and H05K 7/14327 should be considered in order to perform a complete search.
N	H05K 7/14329		Group H05K 7/14329 is incomplete pending reclassification of documents from group H05K 7/1432. Groups H05K 7/1432 and H05K 7/14329 should be considered in order to perform a complete search.
N	H05K 7/14337		Group H05K 7/14337 is incomplete pending reclassification of documents from group H05K 7/1432. Groups H05K 7/1432 and H05K 7/14337 should be considered in order to perform a complete search.
N	H05K 7/14339		Group H05K 7/14339 is incomplete pending reclassification of documents from group H05K 7/1432. Groups H05K 7/1432 and H05K 7/14339 should be considered in order to perform a complete search.
N	H05K 9/0024		Group H05K 9/0024 is impacted by reclassification into groups H05K 9/0029 and H05K 9/0031. Groups H05K 9/0024, H05K 9/0029 and H05K 9/0031 should be considered in order to perform a complete search.
N	H05K 9/003		Group H05K 9/003 is impacted by reclassification into groups H05K 9/0029 and H05K 9/0031. Groups H05K 9/003, H05K 9/0029 and H05K 9/0031 should be considered in order to perform a complete search.
N	H05K 9/0029		Group H05K 9/0029 is incomplete pending reclassification of documents from groups H05K 9/0024 and H05K 9/003. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05K 9/0031		Group H05K 9/0031 is incomplete pending reclassification of documents from groups H05K 9/0024 and H05K 9/003. All groups listed in this Warning 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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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	H05K 5/0017	H05K 5/0017, H05K 5/0018
C	H05K 5/02	H05K 5/02, H05K 5/0209, H05K 5/021, H05K 5/0211, H05K 5/0212, H05K 5/0214, H05K 5/0215, H05K 5/0216
C	H05K 5/0213	H05K 5/0213, H05K 5/0209, H05K 5/021, H05K 5/0211, H05K 5/0212, H05K 5/0214, H05K 5/0215, H05K 5/0216
D	H05K 5/0239	<administrative transfer to H05K 5/03>
C	H05K 7/1432	H05K 7/1432, H05K 7/14322, H05K 7/14324, H05K 7/14325, H05K 7/14327, H05K 7/14329, H05K 7/14337, H05K 7/14339
C	H05K 9/0024	H05K 9/0024, H05K 9/0029, H05K 9/0031
C	H05K 9/003	H05K 9/003, H05K 9/0029, H05K 9/0031

\* 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:

- Only 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.



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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H05K 5/0018	H05K 5/00	NEW
H05K 5/0209	H05K 5/02	NEW
H05K 5/021	H05K 5/02	NEW
H05K 5/0211	H05K 5/02	NEW
H05K 5/0212	H05K 5/02	NEW
H05K 5/0214	H05K 5/02	NEW
H05K 5/0215	H05K 5/02	NEW
H05K 5/0216	H05K 5/02	NEW
H05K 5/0239		DELETE
H05K 7/14322	H05K 7/14	NEW
H05K 7/14324	H05K 7/14	NEW
H05K 7/14325	H05K 7/14	NEW
H05K 7/14327	H05K 7/14	NEW
H05K 7/14329	H05K 7/14	NEW
H05K 7/14337	H05K 7/14	NEW
H05K 7/14339	H05K 7/14	NEW
H05K 9/0029	H05K 9/00	NEW
H05K 9/0031	H05K 9/00	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.