

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1230

DATE: JANUARY 1, 2022

PROJECT RP0753

Note: RP0753 serves as the finalisation (deletion of Warnings) for RP0646.

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	H05B	33/08
Symbols New:	H05B	44/00
	H05B	45/59
Titles Changed:	H05B	Subclass
	H05B	6/00
	H05B	39/00
	H05B	41/00
	H05B	45/00, 45/36, 45/50, 45/60
	H05B	46/00
	H05B	47/00
Warnings Deleted:	H05B	33/08
	H05B	45/00, 45/10, 45/12, 45/18, 45/20, 45/28, 45/30, 45/305, 45/31, 45/315, 45/32, 45/325, 45/327, 45/33, 45/335, 45/34, 45/345, 45/347, 45/35, 45/355, 45/357, 45/3574, 45/3575, 45/3577, 45/3578, 45/36, 45/37, 45/3725, 45/375, 45/38, 45/382, 45/385, 45/39, 45/392, 45/395, 45/397, 45/40, 45/42, 45/52, 45/54, 45/56
	H05B	47/00, 47/10, 47/105, 47/11, 47/115, 47/12, 47/125, 47/13, 47/135, 47/14, 47/155, 47/16, 47/165, 47/17, 47/175, 47/18, 47/185, 47/19, 47/195, 47/20, 47/21, 47/22, 47/23, 47/235, 47/24, 47/25, 47/26, 47/28, 47/29
Warnings New:	H05B	45/59
Warnings Modified:	H05B	45/50
Notes Deleted:	H05B	Subclass
Guidance Headings New:	H05B	39/00
Guidance Headings Modified:	H05B	1/00
	H05B	31/00
DEFINITIONS:		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)	H05B	33/08
Definitions Modified:	H05B	Subclass
Definitions New:	H05B	44/00

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The following subclasses are also impacted by this Notice of Changes (indicate subclasses/groups outside of the project scope, such as those listed in the CRL): B60R, G01J, G02F, G05D, G09G

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 H05B - ELECTRIC HEATING; ELECTRIC LIGHT SOURCES NOT OTHERWISE PROVIDED FOR; CIRCUIT ARRANGEMENTS FOR ELECTRIC LIGHT SOURCES, IN GENERAL

<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	H05B	Subclass	ELECTRIC HEATING; ELECTRIC LIGHT SOURCES NOT OTHERWISE PROVIDED FOR; CIRCUIT ARRANGEMENTS FOR ELECTRIC LIGHT SOURCES, IN GENERAL	
M	H05B 6/00	0	Heating by electric, magnetic or electromagnetic fields	
D	H05B 33/08	2	Circuit arrangements for operating electroluminescent light sources (for operating light emitting diodes H05B 45/00)	<administrative transfer to H05B 44/00>
M	H05B 39/00	0	Circuit arrangements or apparatus for operating incandescent light sources (structurally associated with the incandescent lamps H01K 1/62)	
M	H05B 41/00	0	Circuit arrangements or apparatus for igniting or operating discharge lamps (structurally associated with the discharge lamps H01J 61/54, H01J 61/56)	
N	H05B 44/00	0	Circuit arrangements for operating electroluminescent light sources (for operating light emitting diodes H05B 45/00)	
M	H05B 45/00	0	Circuit arrangements for operating light emitting diodes [LEDs]	
M	H05B 45/36	2	Circuits for reducing or suppressing harmonics, ripples or electromagnetic interferences [EMI]	
C	H05B 45/50	1	responsive to malfunctions or undesirable behaviour of LEDs; responsive to LED life; Protective circuits	H05B 45/50, H05B 45/59
U	H05B 45/58	2	involving end of life detection of LEDs	

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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	H05B 45/59	2	for reducing or suppressing flicker or glow effects	
M	H05B 45/60	1	Circuit arrangements for operating LEDs comprising organic material, e.g. for operating organic light-emitting diodes [OLEDs] or polymer light-emitting diodes [PLEDs]	
M	H05B 46/00	0	Circuit arrangements for operating light sources using a charge of combustible material	
M	H05B 47/00	0	Circuit arrangements for operating light sources in general, i.e. where the type of light source is not relevant	

*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 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 H05B - ELECTRIC HEATING; ELECTRIC LIGHT SOURCES NOT OTHERWISE PROVIDED FOR; CIRCUIT ARRANGEMENTS FOR ELECTRIC LIGHT SOURCES, IN GENERAL

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	H05B 33/08	Group H05B 33/08 is impacted by reclassification into group H05B 45/00. Groups H05B 33/08 and H05B 45/00 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/00	Group H05B 45/00 is incomplete pending reclassification of documents from group H05B 33/08. Group H05B 45/00 is also impacted by reclassification into groups H05B 45/30 - H05B 45/397. Groups H05B 33/08, H05B 45/00, and H05B 45/30-H05B 45/397 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/10	Group H05B 45/10 is impacted by reclassification into groups H05B 45/12 and H05B 45/18. Groups H05B 45/10, H05B 45/12, and H05B 45/18 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/12	Group H05B 45/12 is incomplete pending reclassification of documents from group H05B 45/10. Groups H05B 45/10 and H05B 45/12 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/18	Group H05B 45/18 is incomplete pending reclassification of documents from group H05B 45/10. Groups H05B 45/10 and H05B 45/18 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/20	Group H05B 45/20 is impacted by reclassification into group H05B 45/28. Groups H05B 45/20 and H05B 45/28 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	H05B 45/28	Group H05B 45/28 is incomplete pending reclassification of documents from group H05B 45/20. Groups H05B 45/20 and H05B 45/28 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/30	Group H05B 45/30 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/30 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/305	Group H05B 45/305 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/305 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/31	Group H05B 45/31 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/31 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/315	Group H05B 45/315 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/315 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/32	Group H05B 45/32 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/32 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/325	Group H05B 45/325 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/325 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	H05B 45/327	Group H05B 45/327 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/327 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/33	Group H05B 45/33 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/33 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/335	Group H05B 45/335 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/335 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/34	Group H05B 45/34 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/34 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/345	Group H05B 45/345 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/345 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/347	Group H05B 45/347 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/347 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/35	Group H05B 45/35 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/35 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	H05B 45/355	Group H05B 45/355 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/355 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/357	Group H05B 45/357 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/357 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/3574	Group H05B 45/3574 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/3574 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/3575	Group H05B 45/3575 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/3575 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/3577	Group H05B 45/3577 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/3577 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/3578	Group H05B 45/3578 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/3578 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/36	Group H05B 45/36 is incomplete pending reclassification of documents from group H05B 45/00. Groups H05B 45/00 and H05B 45/36 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	H05B 45/37	Group H05B 45/37 is incomplete pending reclassification of documents from group H05B 45/00. Group H05B 45/37 is also impacted by reclassification into groups H05B 45/3725, H05B 45/375, H05B 45/38, H05B 45/382, H05B 45/385, H05B 45/39, and H05B 45/392. All groups listed in this Warning should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/3725	Group H05B 45/3725 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/3725 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/375	Group H05B 45/375 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/375 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/38	Group H05B 45/38 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/38 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/382	Group H05B 45/382 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/382 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	H05B 45/385	Group H05B 45/385 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/385 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/39	Group H05B 45/39 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/39 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/392	Group H05B 45/392 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/37. Groups H05B 45/00, H05B 45/37, and H05B 45/392 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/395	Group H05B 45/395 is incomplete pending reclassification of documents from group H05B 45/00. Group H05B 45/395 is also impacted by reclassification into group H05B 45/397. Groups H05B 45/00, H05B 45/395, and H05B 45/397 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/397	Group H05B 45/397 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/395. Groups H05B 45/00, H05B 45/395, and H05B 45/397 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/40	Group H05B 45/40 is impacted by reclassification into group H05B 45/42. Groups H05B 45/40 and H05B 45/42 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	H05B 45/42	Group H05B 45/42 is incomplete pending reclassification of documents from group H05B 45/40. Groups H05B 45/40 and H05B 45/42 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
M	H05B 45/50	Group H05B 45/50 is impacted by reclassification into groups H05B 45/52, H05B 45/54, and H05B 45/56. All groups listed in this Warning should be considered in order to perform a complete search.	Group H05B 45/50 is impacted by reclassification into group H05B 45/59. Groups H05B 45/50 and H05B 45/59 should be considered in order to perform a complete search.
D	H05B 45/52	Group H05B 45/52 is incomplete pending reclassification of documents from group H05B 45/50. Groups H05B 45/50 and H05B 45/52 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/54	Group H05B 45/54 is incomplete pending reclassification of documents from group H05B 45/50. Groups H05B 45/50 and H05B 45/54 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 45/56	Group H05B 45/56 is incomplete pending reclassification of documents from group H05B 45/50. Groups H05B 45/50 and H05B 45/56 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
N	H05B 45/59		Group H05B 45/59 is incomplete pending reclassification of documents from groups H05B 45/00 and H05B 45/50. Groups H05B 45/00, H05B 45/50 and H05B 45/59 should be considered in order to perform a complete search.
D	H05B 47/00	Group H05B 47/00 is impacted by reclassification into groups H05B 47/10 - H05B 47/29. Groups H05B 47/00 and H05B 47/10 - H05B 47/29 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	H05B 47/10	Group H05B 47/10 is incomplete pending reclassification of documents from group H05B 47/00. Group H05B 47/10 is also impacted by reclassification into groups H05B 47/165 and H05B 47/17. All groups listed in this Warning should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/105	Group H05B 47/105 is incomplete pending reclassification of documents from group H05B 47/00. Group H05B 47/105 is also impacted by reclassification into groups H05B 47/115, H05B 47/125, H05B 47/13, H05B 47/135, and H05B 47/14. All groups listed in this Warning should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/11	Group H05B 47/11 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/11 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/115	Group H05B 47/115 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/105. Groups H05B 47/00, H05B 47/105, and H05B 47/115 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/12	Group H05B 47/12 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/12 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/125	Group H05B 47/125 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/105. Groups H05B 47/00, H05B 47/105, and H05B 47/125 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	H05B 47/13	Group H05B 47/13 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/105. Groups H05B 47/00, H05B 47/105, and H05B 47/13 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/135	Group H05B 47/135 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/105. Groups H05B 47/00, H05B 47/105, and H05B 47/135 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/14	Group H05B 47/14 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/105. Groups H05B 47/00, H05B 47/105, and H05B 47/14 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/155	Group H05B 47/155 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/155 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/16	Group H05B 47/16 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/16 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/165	Group H05B 47/165 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/10. Groups H05B 47/00, H05B 47/10, and H05B 47/165 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	H05B 47/17	Group H05B 47/17 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/10. Groups H05B 47/00, H05B 47/10, and H05B 47/17 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/175	Group H05B 47/175 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/175 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/18	Group H05B 47/18 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/18 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/185	Group H05B 47/185 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/185 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/19	Group H05B 47/19 is incomplete pending reclassification of documents from group H05B 47/00. Group H05B 47/19 is also impacted by reclassification into group H05B 47/195. Groups H05B 47/00, H05B 47/19, and H05B 47/195 should be considered in order to perform a complete search	<u>Delete</u> the entire Warning.
D	H05B 47/195	Group H05B 47/195 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/19. Groups H05B 47/00, H05B 47/19, and H05B 47/195 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	H05B 47/20	Group H05B 47/20 is incomplete pending reclassification of documents from group H05B 47/00. Group H05B 47/20 is also impacted by reclassification into groups H05B 47/24, H05B 47/25, H05B 47/26, and H05B 47/28. All groups listed in this Warning should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/21	Group H05B 47/21 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/21 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/22	Group H05B 47/22 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/22 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/23	Group H05B 47/23 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/23 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/235	Group H05B 47/235 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/235 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/24	Group H05B 47/24 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/20. Groups H05B 47/00, H05B 47/20, and H05B 47/24 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	H05B 47/25	Group H05B 47/25 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/20. Groups H05B 47/00, H05B 47/20, and H05B 47/25 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/26	Group H05B 47/26 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/20. Groups H05B 47/00, H05B 47/20, and H05B 47/26 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/28	Group H05B 47/28 is incomplete pending reclassification of documents from groups H05B 47/00 and H05B 47/20. Groups H05B 47/00, H05B 47/20, and H05B 47/28 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.
D	H05B 47/29	Group H05B 47/29 is incomplete pending reclassification of documents from group H05B 47/00. Groups H05B 47/00 and H05B 47/29 should be considered in order to perform a complete search.	<u>Delete</u> the entire Warning.

*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 H05B - ELECTRIC HEATING; ELECTRIC LIGHT SOURCES NOT OTHERWISE PROVIDED FOR; CIRCUIT ARRANGEMENTS FOR ELECTRIC LIGHT SOURCES, IN GENERAL

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
D	H05B	<p>In this subclass, the following special cases occur:</p> <p>a. Among the general applications covered by sections other than section H, it is worth noting that electric heating in general is covered by subclasses F24D or F24H or class F27, and that electric lighting in general is partly covered by class F21, since in section H (see Note I(c) after the title of section H) there are places in H05B which cover the same technical subjects;</p> <p>b. In the two cases referred to under (a) above, the subclasses of section F, which deal with the respective subjects, essentially cover in the first place the whole mechanical aspect of the apparatus or devices, whereas the electrical aspect, as such, is covered by subclass H05B;</p> <p>c. In the case of lighting, this mechanical aspect should be taken to cover the material arrangement of the various electric elements, i.e. their geometrical or physical position in relation to one another; this aspect is covered by subclasses of class F21, the elements themselves and the primary circuits remaining in section H. The same applies to electric light sources, when combined with light sources of a different kind. These are covered by subclass H05B, whereas the physical arrangement which their combination constitutes is covered by subclasses of class F21;</p> <p>d. As regards heating, not only the electric elements and circuitry designs, as such, are covered by subclass H05B, but also the electric aspects of their arrangement, where these concern cases of general application; electric furnaces being considered as such. The physical disposition of the electric elements in furnaces is covered by section F. If a comparison is made with electric welding circuits, which are covered by subclass B23K in connection with welding, it can be seen that electric heating is not covered by the general rule stated in Note II after the title of section H.</p>	<p><u>Delete</u> the entire Note.</p>

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

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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D. New, Modified or Deleted Guidance Heading(s)

SUBCLASS H05B - ELECTRIC HEATING; ELECTRIC LIGHT SOURCES NOT OTHERWISE PROVIDED FOR; CIRCUIT ARRANGEMENTS FOR ELECTRIC LIGHT SOURCES, IN GENERAL

<u>Type*</u>	<u>Location</u>	<u>Old Guidance Heading</u>	<u>New/Modified Guidance Heading</u>
M	H05B 1/00 - H05B 11/00	Heating	Electric heating
M	H05B 31/00 - H05B 35/00	Lighting	Electric light sources
N	H05B 39/00 - H05B 47/00		Circuit arrangements

*N = new guidance heading, M =modified guidance heading, D = deleted guidance heading

NOTES:

- The “Location” column requires the symbol AFTER the guidance heading location. No further directions such as “before” or “after” are required.
- In cases where there may be confusion as to whether a new group falls within the scope of a guidance heading, indicate the guidance heading and whether the group does or does not go with the guidance heading. This can be included in the “Location” column. For example, the guidance heading “Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen” encompasses groups C07C 301/00-395/00 only. If a new group C07C 398/00 is proposed and is included in the guidance heading scope, indicate this in the “Location” column as follows: 398/00 to be included under the guidance heading: “Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen.”

2. A. DEFINITIONS (New)

Insert: The following new Definition.

H05B 44/00

Definition statement

This place covers:

Circuits for driving electroluminescent panels.

References

Limiting references

This place does not cover:

Circuit arrangements for operating light emitting diodes	H05B 45/00
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Informative references

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

Circuit arrangements or apparatus for operating discharge lamps, e.g. fluorescent tubes	H05B 41/00
Control of light sources general	H05B 47/00
Electric lighting	F21
Control arrangements or circuits for displays	G09G 3/00
Control arrangements or circuits for electroluminescent panels	G09G 3/30
Inorganic light emitting devices [LED]	H01L 33/00
Organic light emitting devices [OLED]	H01L 51/00
Laser	H01S 3/00, H01S 5/00
Switching power supplies in general and inverters	H02M
Printed circuits [PCBs]; Details of electric apparatus, e.g. heatsinks	H05K

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Special rules of classification

- Control of white light is classified in the colour section [H05B 45/20](#) and subgroups.

2. A. DEFINITIONS (modified)

H05B

Definition statement

Replace: The existing Definition statement text with the following modified text.

Electric heating

- Heat sources using ohmic resistance, electric, magnetic or electromagnetic fields, electric discharge, or combinations thereof;
- Light sources specially adapted for heating, e.g. infrared sources as used in light ovens.

This subclass covers not only the electric elements and circuitry designs but also the electric aspects of their arrangement, where these concern cases of general application.

Electric light sources

This subclass is residual as to electric light sources and covers in particular:

- Electric arc lamps, electroluminescent light sources and light sources using a combination of different types of light generation;

Circuit arrangements

- Circuit arrangements for operating electric light sources.
- Primary circuits, circuit arrangements and circuit elements for operating electric light sources.

Relationships with other classification places

Replace: The existing Relationships with other classification places text with the following modified text.

Electric Heating

While this subclass covers electric aspects of heating, like electric elements, circuitry designs and their electric arrangement in heating apparatus or devices, the physical disposition of such electric elements as well as any other mechanical aspect of electric heating is covered by the subclasses of F24 and

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F27. Heating elements used in specific applications are classified in subclasses for those applications.

Electric light sources

This subclass is residual as to electric light sources: see section “References out of residual references” for a list of places covering electric light sources per se. Differently from this subclass, subclasses of class F21 cover the mechanical arrangement of parts including electrical elements, i.e. their geometrical or physical position in relation to one another, such as the structures or constructional features of lighting devices incorporating a light source (be it electric or otherwise).

References

Application-oriented references

Replace: The existing Application-oriented references table with the following modified table.

Electric heating

Domestic cooking	A47J
Heating or cooling appliances for medical or therapeutic treatment	A61F 7/00
Radiation therapy using microwaves	A61N 5/02
Forging by heat	B21J, B21K
Joining of preformed parts by heating of plastics or substances in a plastic state	B29C 65/02
Metallurgy	C21, C22, C23
Domestic heating and stoves	F24
Furnaces and ovens	F27
Thermally-actuated switches	H01H 37/00

References out of a residual place

Replace: The existing References out of a residual place table.

Electric light sources

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Electric discharge tubes	H01J
Electric discharge lamps	H01J 61/00 - H01J 65/00
Circuit elements structurally associated with the lighting element of an electric discharge lamp	H01J 61/56
Electric incandescent lamps	H01K
Semiconductor devices with at least one particular jump barrier or surface barrier, specially adapted for light emission, e.g. LEDs	H01L 27/15, H01L 33/00
Organic solid-state devices specially adapted for light emission, e.g. OLEDs or PLEDs	H01L 27/32, H01L 51/50
Laser	H01S
Plasma torches	H05H 1/26

Informative references

Replace: The existing Informative references table with the following modified table.

Electric light sources

Measuring characteristics of light; Colorimetry	G01J
Control of temperature in general	G05D 23/00
Regulating electric characteristics of arcs in general	G05F 1/02
Regulating electric power in general	G05F 1/66

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2. B. DEFINITIONS QUICK FIX

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
H05B 33/08	Definition		<u>Delete</u> the entire Definition.

Notes:

Use this Definitions Quick Fix (DQF) table to:

- Delete an entire definition
- Delete an entire section
- Change a reference symbol
- Delete a reference symbol
- Delete text in a References section
- Correct one error in spelling, article use, or verb tense

Otherwise, use the standard template.

Reminder: Never delete F symbol definitions.

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3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	H05B 33/08	<administrative transfer to H05B 44/00>
C	H05B 45/50	H05B 45/50, H05B 45/59

* 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>
H05B 33/08		DELETE
H05B 44/00	H05B 44/00	NEW
H05B 45/59	H05B 45/59	NEW
H05B 45/60	H05B 45/60	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.
- 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

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Action; New reference symbol; New text</u>
G05D 25/00	H05B 33/08	<u>Replace</u> with H05B 44/00.

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>
B60R 16/00	H05B 33/08	Informative references	<u>Replace</u> with H05B 44/00.
G01J 3/10	H05B 33/08	Informative references	<u>Replace</u> with H05B 44/00.
G02F 1/00	H05B 33/08	Informative references	<u>Replace</u> with H05B 44/00.
G05D 25/00	H05B 33/08	Application-oriented references	<u>Replace</u> with H05B 44/00.
G09G 3/3406	H05B 33/08	Informative references	<u>Replace</u> with H05B 44/00.
H05B 35/00	H05B 33/08	Informative references	<u>Replace</u> with H05B 44/00.

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.