

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 536

DATE: AUGUST 1, 2018

PROJECT RP0132

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:	H05K	13/0023, 13/0046
Symbols New:	H05K	13/0215, 13/0406, 13/0409, 13/041, 13/0411, 13/0419, 13/081, 13/0812, 13/0813, 13/0815, 13/0817, 13/0818, 13/082, 13/083, 13/084, 13/085, 13/0853, 13/0857, 13/086, 13/087, 13/0882, 13/0885, 13/0888, 13/089, 13/0895
Titles Changed:	H05K	SUBCLASS
	H05K	13/0076, 13/022, 13/023, 13/0404, 13/0408, 13/0413, 13/0417, 13/0421, 13/0452, 13/0465, 13/0473
Warnings New:	H05K	13/021, 13/0215, 13/0404, 13/0406, 13/0408, 13/0409, 13/041, 13/0411, 13/0413, 13/0417, 13/0419, 13/0452, 13/08, 13/081, 13/0812, 13/0813, 13/0815, 13/0817, 13/0818, 13/082, 13/083, 13/084, 13/085, 13/0853, 13/0857, 13/086, 13/087, 13/0882, 13/0885, 13/0888, 13/089, 13/0895
DEFINITIONS:		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)	H05K	13/0023, 13/0046
Definitions Modified:	H05K	13/00, 13/022, 13/023, 13/0404, 13/0408, 13/0413, 13/0417, 13/0434, 13/0452, 13/046, 13/0465, 13/0473, 13/08

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)

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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 (details of instruments or comparable details of other apparatus not otherwise provided for G12B; thin-film or thick-film circuits H01L 27/01, H01L 27/13; non-printed means for electric connections to or between printed circuits, {electric connections or line connectors, apparatus or processes for manufacturing, assembling, maintaining or repairing such connections or connectors } H01R; casings for, or constructional details of, particular types of apparatus, see the relevant subclasses; processes involving only a single technical art, e.g. heating, spraying, for which provision exists elsewhere, see the relevant classes)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>"CPC only" text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H05K	subclass	PRINTED CIRCUITS; CASINGS OR CONSTRUCTIONAL DETAILS OF ELECTRIC APPARATUS; MANUFACTURE OF ASSEMBLAGES OF ELECTRICAL COMPONENTS (details of instruments or comparable details of other apparatus not otherwise provided for G12B; thin-film or thick-film circuits H01L 27/01, H01L 27/13; non-printed means for electric connections to or between printed circuits {, electric connections or line connectors, apparatus or processes for manufacturing, assembling, maintaining or repairing such connections or connectors} H01R; casings for, or constructional details of, particular types of apparatus, see the relevant subclasses; processes involving only a single technical art, e.g. heating, spraying, for which provision exists elsewhere, see the relevant classes)	
E	H05K 13/00	0	Apparatus or processes specially adapted for manufacturing or adjusting assemblages of electric components	
D	H05K 13/0023	1	{Making assemblies of electric components, e.g. modules (H05K 13/04 take precedence)}	<administrative transfer to H05K 13/00>

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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>
D	H05K 13/0046	1	{Encapsulation of electrical assemblies in resins (hermetically-sealed casings H05K 5/06)}	<administrative transfer to H05K 13/00>
U	H05K 13/0061	1	{Tools for holding the circuit boards during processing; handling transport of printed circuit boards}	
M	H05K 13/0076	2	{Straightening or aligning terminal leads of pins mounted on boards, during transport of the boards}	
C	H05K 13/021	2	{Loading or unloading of containers (H05K 13/028 takes precedence)}	H05K 13/021, H05K 13/0215
N	H05K 13/0215	2	{Interconnecting of containers, e.g. splicing of tapes}	
M	H05K 13/022	2	{with orientation of the elements}	
M	H05K 13/023	2	{with bending or straightening of the terminal leads}	
C	H05K 13/0404	2	{Pick-and-place heads or apparatus, e.g. with jaws}	H05K 13/0404, H05K 13/0406, H05K 13/0408, H05K 13/041, H05K 13/0411, H05K 13/0413
N	H05K 13/0406	3	{Drive mechanisms for pick-and-place heads, e.g. details relating to power transmission, motors or vibration damping}	
C	H05K 13/0408	3	{Incorporating a pick-up tool}	H05K 13/0408, H05K 13/0409
N	H05K 13/0409	4	{Sucking devices}	
N	H05K 13/041	4	{having multiple pick-up tools}	
N	H05K 13/0411	3	{having multiple mounting heads}	
C	H05K 13/0413	3	{with orientation of the component while holding it; Drive mechanisms for gripping tools, e.g. lifting, lowering or turning of gripping tools}	H05K 13/0413, H05K 13/0406, H05K 13/041
C	H05K 13/0417	2	{Feeding with belts or tapes}	H05K 13/0417, H05K 13/0419
N	H05K 13/0419	3	{tape feeders}	
M	H05K 13/0421	3	{with treatment of the terminal leads}	
C	H05K 13/0452	2	{Mounting machines or lines comprising a plurality of tools for guiding different components to the same mounting place (H05K 13/0406, H05K 13/041 take precedence)}	H05K 13/0452, H05K 13/0406, H05K 13/041, H05K 13/0411, H05K 13/0413

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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>
U	H05K 13/046	2	{Surface mounting (surface mounted components H05K 3/341)}	
M	H05K 13/0465	3	{by soldering (H05K 13/0469 takes precedence)}	
M	H05K 13/0473	2	{Cutting and clinching the terminal ends of the leads after they are fitted on a circuit board}	
C	H05K 13/08	1	Monitoring manufacture of assemblages	H05K 13/08, H05K 13/081, H05K 13/0812, H05K 13/0813, H05K 13/0815, H05K 13/0817, H05K 13/0818, H05K 13/082, H05K 13/083, H05K 13/084, H05K 13/085, H05K 13/0853, H05K 13/0857, H05K 13/086, H05K 13/087, H05K 13/0882, H05K 13/0885, H05K 13/0888, H05K 13/089, H05K 13/0895
N	H05K 13/081	2	{Integration of optical monitoring devices in assembly lines; Processes using optical monitoring devices specially adapted for controlling devices or machines in assembly lines}	
N	H05K 13/0812	3	{the monitoring devices being integrated in the mounting machine, e.g. for monitoring components, leads, component placement}	
N	H05K 13/0813	3	{Controlling of single components prior to mounting, e.g. orientation, component geometry (H05K 13/0812 takes precedence)}	
N	H05K 13/0815	3	{Controlling of component placement on the substrate during or after manufacturing}	

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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	H05K 13/0817	3	{Monitoring of soldering processes (inspection of solder joints or of printed solder paste G01N 21/95684)}	
N	H05K 13/0818	3	{Setup of monitoring devices prior to starting mounting operations; Teaching of monitoring devices for specific products; Compensation of drifts during operation, e.g. due to temperature shifts}	
N	H05K 13/082	2	{Integration of non-optical monitoring devices, i.e. using non-optical inspection means, e.g. electrical means, mechanical means or X-rays}	
N	H05K 13/083	2	{Quality monitoring using results from monitoring devices, e.g. feedback loops (H05K 13/084 takes precedence)}	
N	H05K 13/084	2	{Product tracking, e.g. of substrates during the manufacturing process; Component traceability}	
N	H05K 13/085	2	{Production planning, e.g. of allocation of products to machines, of mounting sequences at machine or facility level}	
N	H05K 13/0853	3	{Determination of transport trajectories inside mounting machines}	
N	H05K 13/0857	3	{Product-specific machine setup; Changeover of machines or assembly lines to new product type}	
N	H05K 13/086	2	{Supply management, e.g. supply of components or of substrates}	
N	H05K 13/087	2	{Equipment tracking or labelling, e.g. tracking of nozzles, feeders or mounting heads}	
N	H05K 13/0882	2	{Control systems for mounting machines or assembly lines, e.g. centralized control, remote links, programming of apparatus and processes as such (H05K 13/083 takes precedence)}	
N	H05K 13/0885	2	{Power supply}	
N	H05K 13/0888	2	{Ergonomics; Operator safety; Training; Failsafe systems}	
N	H05K 13/089	2	{Calibration, teaching or correction of mechanical systems, e.g. of the mounting head}	
N	H05K 13/0895	2	{Maintenance systems or processes, e.g. indicating need for maintenance}	

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*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: H05K – PRINTED CIRCUITS; CASINGS OR CONSTRUCTIONAL DETAILS OF ELECTRIC APPARATUS; MANUFACTURE OF ASSEMBLAGES OF ELECTRICAL COMPONENTS (details of instruments or comparable details of other apparatus not otherwise provided for G12B; thin-film or thick-film circuits H01L 27/01, H01L 27/13; non-printed means for electric connections to or between printed circuits, {electric connections or line connectors, apparatus or processes for manufacturing, assembling, maintaining or repairing such connections or connectors } H01R; casings for, or constructional details of, particular types of apparatus, see the relevant subclasses; processes involving only a single technical art, e.g. heating, spraying, for which provision exists elsewhere, see the relevant classes)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	H05K 13/021		Group H05K 13/021 is impacted by reclassification into group H05K 13/0215. Groups H05K 13/021 and H05K 13/0215 should be considered in order to perform a complete search.
N	H05K 13/0215		Group H05K 13/0215 is incomplete pending reclassification of documents from group H05K 13/021. Groups H05K 13/021 and H05K 13/0215 should be considered in order to perform a complete search.
N	H05K 13/0404		Group H05K 13/0404 is impacted by reclassification into groups H05K 13/0406, H05K 13/0408, H05K 13/041, H05K 13/0411 and H05K 13/0413. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05K 13/0406		Group H05K 13/0406 is incomplete pending reclassification of documents from groups H05K 13/0404, H05K 13/0413 and H05K 13/0452. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05K 13/0408		Group H05K 13/0408 is incomplete pending reclassification of documents from group H05K 13/0404. Group H05K 13/0408 is also impacted by reclassification into group H05K 13/0409. Groups H05K 13/0404, H05K 13/0408 and H05K 13/0409 should be considered in order to perform a complete search.
N	H05K 13/0409		Group H05K 13/0409 is incomplete pending reclassification of documents from group H05K 13/0408. Groups H05K 13/0408 and H05K 13/0409 should be considered in order to perform a complete search.

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Type*	Location	Old Warning notice	New/Modified Warning notice
N	H05K 13/041		Group H05K 13/041 is incomplete pending reclassification of documents from groups H05K 13/0404, H05K 13/0413 and H05K 13/0452. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05K 13/0411		Group H05K 13/0411 is incomplete pending reclassification of documents from groups H05K 13/0404 and H05K 13/0452. Groups H05K 13/0404, H05K 13/0452 and H05K 13/0411 should be considered in order to perform a complete search.
N	H05K 13/0413		Group H05K 13/0413 is incomplete pending reclassification of documents from groups H05K 13/0404 and H05K 13/0452. Group H05K 13/0413 is also impacted by reclassification into groups H05K 13/0406 and H05K 13/041. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05K 13/0417		Group H05K 13/0417 is impacted by reclassification into group H05K 13/0419. Groups H05K 13/0417 and H05K 13/0419 should be considered in order to perform a complete search.
N	H05K 13/0419		Group H05K 13/0419 is incomplete pending reclassification of documents from group H05K 13/0417. Groups H05K 13/0417 and H05K 13/0419 should be considered in order to perform a complete search.
N	H05K 13/0452		Group H05K 13/0452 is impacted by reclassification into groups H05K 13/0406, H05K 13/041, H05K 13/0411 and H05K 13/0413. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05K 13/08		Group H05K 13/08 is impacted by reclassification into groups H05K 13/081, H05K 13/0812, H05K 13/0813, H05K 13/0815, H05K 13/0817, H05K 13/0818, H05K 13/082, H05K 13/083, H05K 13/084, H05K 13/085, H05K 13/0853, H05K 13/0857, H05K 13/086, H05K 13/087, H05K 13/0882, H05K 13/0885, H05K 13/0888, H05K 13/089 and H05K 13/0895. All groups listed in this Warning should be considered in order to perform a complete search.
N	H05K 13/081		Group H05K 13/081 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/081 should be considered in order to perform a complete search.

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Type*	Location	Old Warning notice	New/Modified Warning notice
N	H05K 13/0812		Group H05K 13/0812 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/0812 should be considered in order to perform a complete search.
N	H05K 13/0813		Group H05K 13/0813 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/0813 should be considered in order to perform a complete search.
N	H05K 13/0815		Group H05K 13/0815 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/0815 should be considered in order to perform a complete search.
N	H05K 13/0817		Group H05K 13/0817 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/0817 should be considered in order to perform a complete search.
N	H05K 13/0818		Group H05K 13/0818 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/0818 should be considered in order to perform a complete search.
N	H05K 13/082		Group H05K 13/082 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/082 should be considered in order to perform a complete search.
N	H05K 13/083		Group H05K 13/083 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/083 should be considered in order to perform a complete search.
N	H05K 13/084		Group H05K 13/084 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/084 should be considered in order to perform a complete search.
N	H05K 13/085		Group H05K 13/085 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/085 should be considered in order to perform a complete search.

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Type*	Location	Old Warning notice	New/Modified Warning notice
N	H05K 13/0853		Group H05K 13/0853 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/0853 should be considered in order to perform a complete search.
N	H05K 13/0857		Group H05K 13/0857 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/0857 should be considered in order to perform a complete search.
N	H05K 13/086		Group H05K 13/086 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/086 should be considered in order to perform a complete search.
N	H05K 13/087		Group H05K 13/087 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/087 should be considered in order to perform a complete search.
N	H05K 13/0882		Group H05K 13/0882 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/0882 should be considered in order to perform a complete search.
N	H05K 13/0885		Group H05K 13/0885 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/0885 should be considered in order to perform a complete search.
N	H05K 13/0888		Group H05K 13/0888 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/0888 should be considered in order to perform a complete search.
N	H05K 13/089		Group H05K 13/089 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/089 should be considered in order to perform a complete search.
N	H05K 13/0895		Group H05K 13/0895 is incomplete pending reclassification of documents from group H05K 13/08. Groups H05K 13/08 and H05K 13/0895 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.

2. A. DEFINITIONS (modified)

H05K 13/0417

Definition statement

Replace: The existing Definition statement with the following.

Delivery of components to a mounting machine via belts or tapes; tape feeders; attachment of tape feeders to the mounting machine; details related to the picking up of components by mounting head from tapes/belts.

Special rules of classification

Replace: The existing Special rules of classification with the following.

Interconnection/splicing of belts/tapes to be classified in H05K 13/021.

Glossary of terms

Replace: The existing text in the Glossary of terms table with the following.

Blister, belt, tape	Belt or tape wound on a reel/roll and carrying electronic devices
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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>
H05K 13/00	Limiting references	Limiting references <i>This place does not cover:</i> Manufacture of printed circuit boards H05K 1/00 Assembling printed circuits with electric components H05K 3/30 Apparatus and methods for soldering B23K Manufacture or treatments of solid state devices H01L 21/00	Delete: The entire Limiting references section.
H05K 13/00	Informative references		Insert: The following references in the Informative references section. Apparatus and methods for soldering B23K Manufacture or treatments of solid state devices H01L 21/00 Manufacture of printed circuit boards H05K 1/00 Assembling printed circuits with electric components H05K 3/30
H05K 13/00	Synonyms and Keywords	Substrate Printed Circuit Board	Delete: The following entry from the Synonyms and Keywords section. Substrate Printed Circuit Board

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<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>
H05K 13/0023		{Making assemblies of electric components, e.g. modules (H05K 13/04 take precedence)} References Limiting references <i>This place does not cover:</i> Mounted modules or finished printed circuit boards in casings, drawers or apparatus H05K 5/00 Mounting of components, e.g. of leadless components H05K 13/04	Delete: The entire definition.
H05K 13/0046		{Encapsulation of electrical assemblies in resins (hermetically-sealed casings H05K 5/06)} References Informative references <i>Attention is drawn to the following places, which may be of interest for search:</i> Encapsulations into casings H05K 5/06 Special rules of classification This group is not used.	Delete: The entire definition.
H05K 13/022	Limiting references	Limiting references <i>This place does not cover:</i> Orientation of components during mounting H05K 13/0413	Delete: The entire Limiting references section.

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<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>
H05K 13/023	Limiting references	Limiting references <i>This place does not cover:</i> Treatment of leads after fitting component into printed circuit boards H05K 13/04	Delete: The entire Limiting references section.
H05K 13/023	Informative references		Insert: The following reference in the Informative references section. Bending and cutting after the mounting on a pc board H05K 13/0473
H05K 13/0404	Limiting references	Limiting references <i>This place does not cover:</i> Vacuum grippers H05K 13/0408	Delete: The entire Limiting references section.
H05K 13/0408	Limiting references	Limiting references <i>This place does not cover:</i> Gripping devices H05K 13/0404	Delete: The entire Limiting references section.
H05K 13/0413	Limiting references	Limiting references <i>This place does not cover:</i> Orientation while feeding H05K 13/022	Delete: The entire Limiting references section.
H05K 13/0434	Limiting references	Limiting references <i>This place does not cover:</i> Components belts H05K 13/0417	Delete: The entire Limiting references section.
H05K 13/0434	Informative references		Insert: The following new Informative references section. Informative references <i>Attention is drawn to the following places, which may be of interest for search:</i> Components belts H05K 13/0417

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<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>
H05K 13/0452	Limiting references		<p>Insert: The following new Limiting references section.</p> <p>Limiting references <i>This place does not cover:</i></p> <p>Drive mechanisms for pick-and-place heads H05K 13/0406 Pick-and-place heads having multiple pick-up tools H05K 13/041</p>
H05K 13/046	Limiting references	Details of fixation between component and PCB H05K 3/00	<p>Delete: The following entry from the Limiting references section.</p> <p>Details of fixation between component and PCB H05K 3/00</p>
H05K 13/0465	Limiting references	<p>Limiting references <i>This place does not cover:</i></p> <p>Details of processes for soldering surface mounted components on printed circuit boards H05K 3/341 Reflow soldering apparatus and process; Soldering process per se B23K</p>	<p>Delete: The existing references from the Limiting references section.</p> <p>Insert: The following new table row in the Limiting references section.</p> <p>Surface mounting by applying a glue or viscous material H05K 13/0469</p>
H05K 13/0465	Informative references	Surface mounting by applying a glue or viscous material H05K 13/0469	<p>Delete: The following entry from the Informative references section.</p> <p>Surface mounting by applying a glue or viscous material H05K 13/0469</p> <p>Insert: The following new table row in the Informative references section.</p> <p>Reflow soldering apparatus and process; Soldering process per se B23K</p>
H05K 13/0473	Limiting references	<p>Limiting references <i>This place does not cover:</i></p> <p>Cutting and clinching the terminal ends of the leads after they are fitted on a circuit board during transport H05K 13/0076</p>	<p>Delete: The entire Limiting references section.</p>

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<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>
H05K 13/0473	Informative references		<p><u>Insert:</u> The following new Informative references section.</p> <p><i>Informative references</i> Attention is drawn to the following places, which may be of interest for search:</p> <p>Cutting and clinching the terminal ends of the leads after they are fitted on a circuit board during transport H05K 13/0076</p>
H05K 13/08	Limiting references	<p><i>Limiting references</i> This place does not cover: Electrical control of finished printed circuit boards G01R 31/00</p>	<p><u>Delete:</u> The entire Limiting references section.</p>
H05K 13/08	Informative references		<p><u>Insert:</u> The following new Informative references section.</p> <p><i>Informative references</i> Attention is drawn to the following places, which may be of interest for search:</p> <p>Electrical control of finished printed circuit boards G01R 31/00</p>

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)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	H05K 13/0023	<administrative transfer to H05K 13/00>
D	H05K 13/0046	<administrative transfer to H05K 13/00>
C	H05K 13/021	H05K 13/021, H05K 13/0215
C	H05K 13/0404	H05K 13/0404, H05K 13/0406, H05K 13/0408, H05K 13/041, H05K 13/0411, H05K 13/0413
C	H05K 13/0408	H05K 13/0408, H05K 13/0409
C	H05K 13/0413	H05K 13/0413, H05K 13/0406, H05K 13/041
C	H05K 13/0417	H05K 13/0417, H05K 13/0419
C	H05K 13/0452	H05K 13/0452, H05K 13/0406, H05K 13/041, H05K 13/0411, H05K 13/0413
C	H05K 13/08	H05K 13/08, H05K 13/081, H05K 13/0812, H05K 13/0813, H05K 13/0815, H05K 13/0817, H05K 13/0818, H05K 13/082, H05K 13/083, H05K 13/084, H05K 13/085, H05K 13/0853, H05K 13/0857, H05K 13/086, H05K 13/087, H05K 13/0882, H05K 13/0885, H05K 13/0888, H05K 13/089, H05K 13/0895

* 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>
H05K 13/0023		DELETE
H05K 13/0046		DELETE
H05K 13/0215	H05K 13/02	NEW
H05K 13/0406	H05K 13/04	NEW
H05K 13/0409	H05K 13/04	NEW
H05K 13/041	H05K 13/04	NEW
H05K 13/0411	H05K 13/04	NEW
H05K 13/0419	H05K 13/04	NEW
H05K 13/081	H05K 13/08	NEW
H05K 13/0812	H05K 13/08	NEW
H05K 13/0813	H05K 13/08	NEW
H05K 13/0815	H05K 13/08	NEW
H05K 13/0817	H05K 13/08	NEW
H05K 13/0818	H05K 13/08	NEW
H05K 13/082	H05K 13/08	NEW
H05K 13/083	H05K 13/08	NEW
H05K 13/084	H05K 13/08	NEW
H05K 13/085	H05K 13/08	NEW
H05K 13/0853	H05K 13/08	NEW
H05K 13/0857	H05K 13/08	NEW
H05K 13/086	H05K 13/08	NEW
H05K 13/087	H05K 13/08	NEW
H05K 13/0882	H05K 13/08	NEW
H05K 13/0885	H05K 13/08	NEW
H05K 13/0888	H05K 13/08	NEW
H05K 13/089	H05K 13/08	NEW
H05K 13/0895	H05K 13/08	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>
B29C 45/14639	H05K 13/0046	Informative references	<p>Delete: The following entry from the <i>Informative references</i> section:</p> <p style="padding-left: 40px;">Assemblies H05K 13/0046</p> <p>Insert: The following new table row in the <i>Informative references</i> section:</p> <p style="padding-left: 40px;">Apparatus or processes specially adapted for manufacturing or adjusting assemblages of electric components H05K 13/00</p>

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.