

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 905

DATE: AUGUST 1, 2020

PROJECT RP0344

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 Pending Reclassification: (frozen (F))	C25D	5/006
Symbols New:	C25D	5/007, 5/009, 5/011, 5/013, 5/60, 5/605, 5/611, 5/615, 5/617, 5/619, 5/623, 5/625, 5/627, 5/67
Titles Changed:	C25D	5/08, 5/16
Warnings New:	C25D	5/00, 5/006, 5/007, 5/009, 5/011, 5/013, 5/08, 5/10, 5/12, 5/14, 5/16, 5/18, 5/20, 5/22, 5/60, 5/605, 5/611, 5/615, 5/617, 5/619, 5/623, 5/625, 5/627, 5/67
DEFINITIONS:		
Definitions Modified:	C25D	5/08

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)

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)

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

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS C25D - PROCESSES FOR THE ELECTROLYTIC OR ELECTROPHORETIC PRODUCTION OF COATINGS; ELECTROFORMING (decorating textiles by metallising D06Q 1/04; manufacturing printed circuits by metal deposition H05K 3/18); **APPARATUS THEREFOR**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
C	C25D5/00	0	Electroplating characterised by the process; Pretreatment or after-treatment of workpieces	C25D5/00, C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, C25D5/627, C25D5/67
F	C25D5/006	1	{Electroplating with applied electromagnetic field, not locally, e.g. for plating magnetic layers }	C25D5/007 C25D5/009 C25D5/011 C25D5/013
N	C25D5/007	1	{Electroplating using magnetic fields, e.g. magnets }	
N	C25D5/009	2	{Deposition of ferromagnetic material}	
N	C25D5/011	1	{Electroplating using electromagnetic wave irradiation (using locally applied electromagnetic radiation C25D5/024)}	
N	C25D5/013	2	{Wavelengths other than ultra-violet [UV], visible or infra-red [IR], e.g. X-rays or microwaves }	
C	C25D5/08	1	Electroplating with moving electrolyte e.g. jet electroplating { (using locally applied jets of electrolyte C25D5/026) }	C25D5/08, C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, C25D5/627
C	C25D5/10	1	Electroplating with more than one layer of the same or of different metals (for bearings C25D7/10)	C25D5/10, C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, C25D5/627
C	C25D5/12	2	at least one layer being of nickel or chromium	C25D5/12, C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617,

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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) "CPC only" text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
				C25D5/619, C25D5/623, C25D5/625, C25D5/627
C	C25D5/14	3	two or more layers being of nickel or chromium, e.g. duplex or triplex layers	C25D5/14, C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, C25D5/627
C	C25D5/16	1	Electroplating with layers of varying thickness	C25D5/16, C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, C25D5/627
C	C25D5/18	1	Electroplating using modulated, pulsed or reversing current	C25D5/18, C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, C25D5/627
C	C25D5/20	1	Electroplating using ultrasonics {, vibrations }	C25D5/20, C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, C25D5/627
C	C25D5/22	1	Electroplating combined with mechanical treatment during the deposition	C25D5/22, C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, C25D5/627
U	C25D5/56	2	on {thin or conductive } plastics {(coating metallic material C23C)}	
N	C25D5/60	1	{Electroplating characterised by the structure or texture of the layers }	
N	C25D5/605	2	{Surface topography of the layers, e.g. rough, dendritic or nodular layers }	
N	C25D5/611	3	{Smooth layers }	
N	C25D5/615	2	{Microstructure of the layers, e.g. mixed structure }	
N	C25D5/617	3	{Crystalline layers }	
N	C25D5/619	3	{Amorphous layers }	
N	C25D5/623	2	{Porosity of the layers }	

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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	C25D5/625	2	{ Discontinuous layers, e.g. microcracked layers }	
N	C25D5/627	1	{ Electroplating characterised by the visual appearance of the layers, e.g. colour, brightness or mat appearance }	
N	C25D5/67	1	{ Electroplating to repair workpiece }	

*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 C25D - PROCESSES FOR THE ELECTROLYTIC OR ELECTROPHORETIC PRODUCTION OF COATINGS; ELECTROFORMING (decorating textiles by metallising D06Q 1/04; manufacturing printed circuits by metal deposition H05K 3/18); **APPARATUS THEREFOR**

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	C25D5/00		Group C25D5/00 is impacted by reclassification into groups C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, C25D5/627, and C25D5/67. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D5/006		Group C25D5/006 is no longer used for the classification of documents as of August 1, 2020. The content of this group is being reclassified into groups C25D5/007, C25D5/009, C25D5/011, and C25D5/013. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D5/007		Group C25D5/007 is incomplete pending reclassification of documents from group C25D5/006. Groups C25D5/006 and C25D5/007 should be considered in order to perform a complete search
N	C25D5/009		Group C25D5/009 is incomplete pending reclassification of documents from group C25D5/006. Groups C25D5/006 and C25D5/009 should be considered in order to perform a complete search
N	C25D5/011		Group C25D5/011 is incomplete pending reclassification of documents from group C25D5/006. Groups C25D5/006 and C25D5/011 should be considered in order to perform a complete search
N	C25D5/013		Group C25D 5/013 is incomplete pending reclassification of documents from group C25D 5/006. Groups C25D 5/006 and C25D 5/013 should be considered in order to perform a complete search.
N	C25D5/08		Group C25D5/08 is impacted by reclassification into groups C25D5/60, C25D5/605, C25D5/611, C25D5/615,

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
			C25D5/617, C25D5/619, C25D5/623, C25D5/625, and C25D5/627. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D5/10		Group C25D5/10 is impacted by reclassification into groups C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, and C25D5/627. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D 5/12		Group C25D 5/12 is impacted by reclassification into groups C25D 5/60, C25D 5/605, C25D 5/611, C25D 5/615, C25D 5/617, C25D 5/619, C25D 5/623, C25D 5/625, and C25D 5/627. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D 5/14		Group C25D 5/14 is impacted by reclassification into groups C25D 5/60, C25D 5/605, C25D 5/611, C25D 5/615, C25D 5/617, C25D 5/619, C25D 5/623, C25D 5/625, and C25D 5/627. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D5/16		Group C25D5/16 is impacted by reclassification into groups C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, and C25D5/627. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D5/18		Group C25D5/18 is impacted by reclassification into groups C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, and C25D5/627. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D5/20		Group C25D5/20 is impacted by reclassification into groups C25D5/60,

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
			C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, and C25D5/627. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D5/22		Group C25D5/22 is impacted by reclassification into groups C25D5/60, C25D5/605, C25D5/611, C25D5/615, C25D5/617, C25D5/619, C25D5/623, C25D5/625, and C25D5/627. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D5/60		Group C25D5/60 is incomplete pending reclassification of documents from groups C25D5/00, C25D5/08, C25D5/10, C25D5/12, C25D5/14, C25D5/16, C25D5/18, C25D5/20, and C25D5/22. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D 5/605		Group C25D 5/605 is incomplete pending reclassification of documents from groups C25D 5/00, C25D 5/08, C25D 5/10, C25D 5/12, C25D 5/14, C25D 5/16, C25D 5/18, C25D 5/20, and C25D 5/22. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D 5/611		Group C25D 5/611 is incomplete pending reclassification of documents from groups C25D 5/00, C25D 5/08, C25D 5/10, C25D 5/12, C25D 5/14, C25D 5/16, C25D 5/18, C25D 5/20, and C25D 5/22. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D 5/615		Group C25D 5/615 is incomplete pending reclassification of documents from groups C25D 5/00, C25D 5/08, C25D 5/10, C25D 5/12, C25D 5/14, C25D 5/16, C25D 5/18, C25D 5/20, and C25D 5/22. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D 5/617		Group C25D 5/617 is incomplete pending reclassification of documents from groups C25D 5/00, C25D 5/08,

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
			C25D 5/10, C25D 5/12, C25D 5/14, C25D 5/16, C25D 5/18, C25D 5/20, and C25D 5/22. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D 5/619		Group C25D 5/619 is incomplete pending reclassification of documents from groups C25D 5/00, C25D 5/08, C25D 5/10, C25D 5/12, C25D 5/14, C25D 5/16, C25D 5/18, C25D 5/20, and C25D 5/22. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D 5/623		Group C25D 5/623 is incomplete pending reclassification of documents from groups C25D 5/00, C25D 5/08, C25D 5/10, C25D 5/12, C25D 5/14, C25D 5/16, C25D 5/18, C25D 5/20, and C25D 5/22. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D 5/625		Group C25D 5/625 is incomplete pending reclassification of documents from groups C25D 5/00, C25D 5/08, C25D 5/10, C25D 5/12, C25D 5/14, C25D 5/16, C25D 5/18, C25D 5/20, and C25D 5/22. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D5/627		Group C25D5/627 is incomplete pending reclassification of documents from groups C25D5/00, C25D5/08, C25D5/10, C25D5/12, C25D5/14, C25D5/16, C25D5/18, C25D5/20, and C25D5/22. All groups listed in this Warning should be considered in order to perform a complete search.
N	C25D 5/67		Group C25D 5/67 is incomplete pending reclassification of documents from group C25D 5/00. Groups C25D 5/00 and C25D 5/67 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)

C25D5/08

Definition statement

Replace: Existing Definition statement with the new one below.

- Electroplating processes with moving electrolyte, improving the electroplating reaction at the cathode, or facilitating the operation of the electroplating cell, e.g. by means of a bath recirculation loop,
- Electroplating processes with spraying of the electrolyte or other alternatives to the immersion,
- Electroplating processes comprising the modification of the hydrodynamics of the electroplating cell by means of a flow directing device, such as a baffle or a diffuser.

References

Insert: New Limiting references section and table.

Limiting references

This place does not cover:

Using locally applied jets of electrolyte	C25D5/026
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Insert: New Informative references section and table.

Informative references

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

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Spraying of electrolyte on strips or foils	C25D7/0685
Means or devices for moving the electrolyte	C25D21/10

Insert: New Special rules of classification section and text.

Special rules of classification

As far as electroplating is concerned, C25D5/08 and C25D21/10 are similar in scope but:

- C25D5/08 is relevant for classifying certain processes and equipment for which C25D21/10 is inappropriate: spraying of the electrolyte, laminar flows of the electrolyte etc.
- C25D21/10 focuses on equipment such as agitators, stirrers, injectors, recirculation pumps, and on the homogenisation of the electrolyte in terms of composition, temperature etc. A claim to a new agitator design is classified in C25D21/10, not in C25D5/08.

Electrolyte flow directing devices modifying the hydrodynamics of the plating cell are classified in C25D5/08 in combination with C25D17/008.

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3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	C25D 5/00	C25D 5/60, C25D 5/605, C25D 5/611, C25D 5/615, C25D 5/617, C25D 5/619, C25D 5/623, C25D 5/625, C25D 5/627, C25D 5/67, C25D 5/00
F	C25D 5/006	C25D 5/007, C25D 5/009, C25D 5/011, C25D 5/013
C	C25D 5/08	C25D 5/08, C25D 5/60, C25D 5/605, C25D 5/611, C25D 5/615, C25D 5/617, C25D 5/619, C25D 5/623, C25D 5/625, C25D 5/627
C	C25D 5/10	C25D 5/10, C25D 5/60, C25D 5/605, C25D 5/611, C25D 5/615, C25D 5/617, C25D 5/619, C25D 5/623, C25D 5/625, C25D 5/627
C	C25D 5/12	C25D 5/12, C25D 5/60, C25D 5/605, C25D 5/611, C25D 5/615, C25D 5/617, C25D 5/619, C25D 5/623, C25D 5/625, C25D 5/627
C	C25D 5/14	C25D 5/14, C25D 5/60, C25D 5/605, C25D 5/611, C25D 5/615, C25D 5/617, C25D 5/619, C25D 5/623, C25D 5/625, C25D 5/627
C	C25D 5/16	C25D 5/16, C25D 5/60, C25D 5/605, C25D 5/611, C25D 5/615, C25D 5/617, C25D 5/619, C25D 5/623, C25D 5/625, C25D 5/627
C	C25D 5/18	C25D 5/18, C25D 5/60, C25D 5/605, C25D 5/611, C25D 5/615, C25D 5/617, C25D 5/619, C25D 5/623, C25D 5/625, C25D 5/627
C	C25D 5/20	C25D 5/20, C25D 5/60, C25D 5/605, C25D 5/611, C25D 5/615, C25D 5/617, C25D 5/619, C25D 5/623, C25D 5/625, C25D 5/627
C	C25D 5/22	C25D 5/22, C25D 5/60, C25D 5/605, C25D 5/611, C25D 5/615, C25D 5/617, C25D 5/619, C25D 5/623, C25D 5/625, C25D 5/627

* 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.

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- 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>
C25D 5/007	C25D 5/00	NEW
C25D 5/009	C25D 5/00	NEW
C25D 5/011	C25D 5/00	NEW
C25D 5/013	C25D 5/00	NEW
C25D 5/60	C25D 5/00	NEW
C25D 5/605	C25D 5/00	NEW
C25D 5/611	C25D 5/00	NEW
C25D 5/615	C25D 5/00	NEW
C25D 5/617	C25D 5/00	NEW
C25D 5/619	C25D 5/00	NEW
C25D 5/623	C25D 5/00	NEW
C25D 5/625	C25D 5/00	NEW
C25D 5/627	C25D 5/00	NEW
C25D 5/67	C25D 5/00	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.