

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 930

DATE: AUGUST 1, 2020

PROJECT RP0269

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))	G11B	5/7006
Symbols New:	G11B	5/7253, 5/7257, 5/726, 5/7262, 5/7264, 5/7266, 5/7268, 5/727, 5/728
Titles Changed:	G11B	5/72, 5/725
Warnings New:	G11B	5/70, 5/7006, 5/718, 5/72, 5/722, 5/725, 5/7253, 5/726, 5/727, 5/728
DEFINITIONS:		
Definitions New:	G11B	5/72, 5/722, 5/725, 5/7253, 5/7257, 5/726, 5/7262, 5/7264, 5/7266, 5/7268, 5/727, 5/728

No other subclasses/groups are impacted by this Notice of Changes.

This Notice of Changes includes the following [Check the ones included]:

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

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

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

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CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)**SUBCLASS G11B - INFORMATION STORAGE BASED ON RELATIVE MOVEMENT BETWEEN RECORD CARRIER AND TRANSDUCER**

<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>
F	G11B 5/7006	4	{comprising a magnetic layer on both sides covered with non-magnetic material}	G11B5/70, G11B5/718, G11B5/728
C	G11B 5/72	2	Protective coatings, e.g. anti-static {or antifriction}	G11B 5/72, G11B5/7253, G11B5/7257, G11B5/726, G11B5/7262, G11B5/7264, G11B5/7266, G11B5/7268, G11B5/727, G11B5/728
C	G11B 5/722	3	{containing an anticorrosive material}	G11B 5/722, G11B5/7253, G11B5/7257, G11B5/726, G11B5/7262, G11B5/7264, G11B5/7266, G11B5/7268, G11B5/727, G11B5/728
C	G11B 5/725	3	containing a lubricant{, e.g. organic compounds (inorganic carbon protective coating G11B 5/727)}	G11B 5/725, G11B5/7253, G11B5/7257, G11B5/726, G11B5/7262, G11B5/7264, G11B5/7266, G11B5/7268, G11B5/727, G11B5/728
N	G11B 5/7253	4	{Fluorocarbon lubricant}	
N	G11B 5/7257	5	{Perfluoropolyether lubricant}	
N	G11B 5/726	3	{Two or more protective coatings (inorganic carbon protective coating G11B 5/727)}	
N	G11B 5/7262	4	{Inorganic protective coating}	
N	G11B 5/7264	5	{Inorganic carbon protective coating, e.g. graphite, diamond like carbon or doped carbon}	
N	G11B 5/7266	6	{comprising a lubricant over the inorganic carbon coating}	
N	G11B 5/7268	6	{comprising elemental nitrogen in the inorganic carbon coating}	
N	G11B 5/727	3	{Inorganic carbon protective coating, e.g. graphite, diamond like carbon or doped carbon}	
N	G11B 5/728	3	{containing a bonding agent in the protective coating}	

*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

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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 G11B - INFORMATION STORAGE BASED ON RELATIVE MOVEMENT BETWEEN RECORD CARRIER AND TRANSDUCER

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	G11B 5/70		Group G11B5/70 is incomplete pending reclassification of documents from group G11B5/7006. Groups G11B5/70 and G11B5/7006 should be considered in order to perform a complete search.
N	G11B 5/7006		Group G11B5/7006 is no longer used for the classification of documents as of August 1, 2020. The content of this group is being reclassified into groups G11B5/70, G11B5/718 and G11B5/728. All groups listed in this Warning should be considered in order to perform a complete search.
N	G11B 5/718		Group G11B5/718 is incomplete pending reclassification of documents from group G11B5/7006. Groups G11B5/7006 and G11B5/718 should be considered in order to perform a complete search.
N	G11B 5/72		Group G11B5/72 is impacted by reclassification into groups G11B5/7253 - G11B5/728. All groups listed in this Warning should be considered in order to perform a complete search.
N	G11B 5/722		Group G11B5/722 is impacted by reclassification into groups G11B5/7253 - G11B5/728. All groups listed in this Warning should be considered in order to perform a complete search.
N	G11B 5/725		Group G11B5/725 is impacted by reclassification into groups G11B5/7253 - G11B5/728. All groups listed in this Warning should be considered in order to perform a complete search.
N	G11B 5/7253		Groups G11B5/7253 - G11B5/7257 are incomplete pending reclassification of documents from groups G11B5/72 - G11B5/725. All groups listed in this Warning should be considered in order to perform a complete search.
N	G11B 5/726		Groups G11B5/726-G11B5/7268 are incomplete pending reclassification of documents from groups G11B5/72 - G11B5/725. All groups listed in this Warning should be considered in order to perform a complete search.
N	G11B 5/727		Group G11B5/727 is incomplete pending reclassification of documents from groups G11B5/72 - G11B5/725. All groups listed in this Warning should be considered in order to perform a complete search.
N	G11B 5/728		Groups G11B5/728 is incomplete pending reclassification of documents from groups G11B5/7006 and G11B5/72 - G11B5/725. All groups listed in this Warning should be considered in order to perform a complete search.

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

NOTE: The "Location" column only requires the symbol PRIOR to the location of the warning. No further directions such as "before" or "after" are required.

2. A. DEFINITIONS (new)

Insert the following new definitions.

G11B 5/72

Definition statement

This place covers:

One or more coatings having specific utility for protecting the record carrier, e.g. from shock, static, head-medium crash, friction or corrosion.

The protective coatings on the outermost layer of the record carrier above any magnetic recording layer structure – the “outermost” being the layer furthest from the substrate and closest to the surface facing a recording or reproducing apparatus.

Relationships with other classification places

Documents directed to protective layers used on magnetic record carriers, as well as on magnetic recording or reproducing apparatus components, should be given an additional symbol in G11B 5/255, G11B 5/31, G11B 5/40 or G11B 5/3106, as appropriate.

Documents directed to protective layers used on a plurality of media types, e.g. optical, ferroelectric or optomagnetic, should be given a classification here if they also recite use on magnetic record carriers.

Other aspects of magnetic recording media are classified as follows:

- G11B 5/64 concerns thin film-type media directed to the selection of magnetic material for the recording layer(s).
- G11B 5/68 concerns binder-type media directed to the selection of magnetic particles, binder composition, or binder additives to the recording layer(s).
- G11B 5/73 concerns underlayers (including substrates) used in magnetic recording media of both thin-film and binder-type.

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References

Informative references

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

Protective measures on heads – on pole pieces, etc.	G11B 5/255
Protective measures on heads – thin film structures	G11B 5/3106
Protective measures on heads, e.g. against excessive temperature	G11B 5/40
Manufacturing methods of depositing protective layers	G11B 5/8408
Protective layers exclusive to optical media	G11B 7/254
Protective layers exclusive to magneto-optic (i.e. thermomagnetic, optomagnetic) record carriers	G11B 11/10586
Compounds of non-metallic elements – oxides	C01B 11/00
Compounds of non-metallic elements – nitrides	C01B 21/00
Compounds of non-metallic elements – carbides	C01B 32/00
General utility lubricant compositions	C10M
Indexing scheme for lubricant composition - specific for use on magnetic media	C10N 2040/18
Coatings of C, O, Ni, Si, e.g. as carbides or nitrides	C22C 29/00
Sputtering of carbon, including DLC	C23C 14/0605
Coating methods of coating carbon, including DLC	C23C 16/26
Plural inorganic coatings with specific use for wear protection – methodology thereof	C23C 28/044
General utility magnetic layers characterized by the composition of a diffusion preventing, cap, “protective” layer	H01F 10/30

Special rules of classification

Protective coatings including a bonding agent, such as for use above binder media type record carriers (i.e. those whose magnetic layers would be covered under G11B 5/68), should be classified in G11B 5/728.

Protective coatings that are specific to thin-film media type record carriers (i.e. those whose magnetic layers would be covered under G11B 5/64) or protective coatings that are generic to both binder-type and thin-film-type record carriers should be classified in G11B 5/72 – G11B 5/727. If the use with binder-type media is deemed critical, an additional classification can be given in G11B 5/728.

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Classification within this area follows the general rules below:

- If the invention concerns a single carbon protective layer, either without other recited protective layers or where the other protective layers are recited in name only, classification should be in G11B 5/727. If an anticorrosive function is indicated, classification should be in G11B 5/722, either alone or in addition to G11B 5/727, if both features are important.
- If the invention concerns one or more lubricants, classification should be in G11B 5/725 – G11B 5/7257. If additional protective layers also represent the invention, then it should be classified in G11B 5/725 - G11B 5/7257 and in G11B 5/726 - G11B 5/7268.
- If the invention concerns a plurality of protective layers, then classification should be in G11B 5/726 – G11B 5/7268. The invention can be related to specific materials or compositions, or to the interaction between the layers, e.g. an initial protective layer given a surface treatment to enhance the bonding to a subsequent protective layer.
- If the invention concerns the inclusion of a bonding agent in the protective layer, such as for use above binder-type media, then classification should be in G11B 5/728.
- Single non-carbon protective layers are classified in G11B 5/72, e.g. silicon based protective layers.

Synonyms and Keywords

In patent documents the following abbreviations are often used:

DLC	Diamond-like Carbon
PFPE	Perfluoropolyether
PE	Polyether

In patent documents, the following expressions/words are often used as synonyms:

- protective layer
- capping layer
- topcoat layer
- overcoat layer
- protection layer

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G11B 5/722

Definition statement

This place covers:

Protective coatings in which the material used has an express anti-corrosion activity or the protective coatings contain a material that is art-recognized as serving an anti-corrosive function, e.g. Cr.

Examples of corrosion resistance include tests in the description, e.g.

Corrosion Resistance Tests

[0063] Corrosion resistance of a protective layer **104** was evaluated by dripping acid onto the surface of the magnetic recording medium A. The magnetic layer **103** of the magnetic recording medium A comprises a CoCr alloy, and thus by evaluating the amount of Co eluted in acid through the protective layer **104**, it is possible to judge the corrosion resistance of the protective layer **104**.

or corrosion resistance in the claims.

G11B 5/725

Definition statement

This place covers:

Protective coatings that include at least one lubricant material, i.e., a substance for reducing friction or wear.

Relationships with other classification places

If both a carbon protective coating and the lubricant concern the invention, classification should be done in G11B 5/7266 and in G11B 5/725 – G11B 5/7257 (based on the type of lubricant).

References

Limiting references

This place does not cover:

Inorganic carbon protective coating	G11B 5/727
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Informative references

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

General utility lubricant compositions	C10M
Non-macromolecular based lubricant compositions	C10M 105/00
Macromolecular based lubricant compositions	C10M 107/00
Organic macromolecular based lubricant compositions that further include nitrogen (e.g. nitrogen containing lubricants)	C10M 2217/00
Phosphorous-nitrogen lubricants	C10M 2223/08
Phosphorous (e.g. Phosphagene) based lubricant compositions	C10M 2225/00
Indexing scheme for lubricant composition - specific for use on magnetic media	C10N 2040/18

Special rules of classification

Carbon coatings, unless explicitly stated as being used for their lubricity, are *not* considered lubricants within the scope of this subgroup. In those situations, an additional symbol should also be given in the appropriate Inorganic Protective Coating subgroups G11B5/7264 – G11B5/727, when the carbon coating is explicitly disclosed.

G11B 5/7253

Definition statement

This place covers:

The lubricant is an organic compound of fluorine.

References

Informative references

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

Lubricating compositions characterised by the base-material being a macromolecular compound containing halogen	C10M 107/38
Organic macromolecular compounds containing halogen as ingredients in lubricant compositions	C10M 2213/00

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G11B 5/7257

Definition statement

This place covers:

The fluorine containing lubricant that includes a perfluoropolyether compound.

References

Informative references

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

Lubricant compositions including perfluoropolyethers	C10M 2213/06
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Synonyms and Keywords

In patent documents the following abbreviations are often used:

PFPE	Perfluoropolyether
PE	Polyether
Fomblin	Perfluoropolyether lubricant composition having a Wide range of end group formulations

G11B 5/726

Definition statement

This place covers:

Protective coating including two or more coatings, where each coating is explicitly disclosed.

Relationships with other classification places

Most record carriers include a protective inorganic (usually carbon) coating along with a lubricant coating. If one of these coatings is lacking an indication of critical interaction with another of these coatings (e.g. modified for improved lubricant bonding), classification should only be done in the corresponding single coating areas: G11B 5/72, G11B 5/725 or G11B 5/727.

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References

Limiting references

This place does not cover:

Inorganic carbon protective coating	G11B 5/727
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G11B 5/7262

Definition statement

This place covers:

At least one of the protective coatings that includes an inorganic coating material that is a non-carbon containing coating.

G11B 5/7264

Definition statement

This place covers:

At least one of the protective coatings that includes a non-organic carbon-based coating material.

Example 1:

1. A planarized bit-patterned magnetic medium comprising:
 - a magnetic layer comprising island regions and trench regions;
 - a first carbon layer applied over the magnetic layer; and
 - a second carbon layer applied over the first carbon layer; wherein the second carbon layer has been substantially removed from above the island regions.

Example 2:

- forming a magnetic layer on a substrate;
- forming an underlayer on the magnetic layer, the underlayer comprising a material selected from the group consisting of silicon, silicon carbide and germanium, a thickness of the underlayer being 0.3 nm or greater and 1.8 nm or less, and
- forming a carbon layer comprising amorphous carbon containing hydrogen on the underlayer, an amount of hydrogen included in the carbon layer being 24.7 at % or higher and 46.8 at % or lower, and a thickness of the carbon layer being 0.2 nm or greater and 1.7 nm or less.

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G11B 5/7266

Definition statement

This place covers:

Protective coatings that include at least one non-organic carbon-based coating material and at least one lubricant coating; the lubricant can be physically or chemically bonded to the carbon-based coating; classification should also be done in G11B 5/725 – G11B 5/7257, depending on the type of lubricant.

References

Informative references

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

General utility lubricant compositions	C10M
Non-macromolecular based lubricant compositions	C10M 105/00
Macromolecular based lubricant compositions	C10M 107/00
Indexing scheme for lubricant composition - specific for use on magnetic media	C10N 2040/18

Example 1:

1. A magnetic recording medium comprising at minimum a magnetic layer, a protective layer and a lubricant agent layer on a non-magnetic substrate in sequential order, wherein the protective layer is formed of carbon or silicon carbide, the lubricant agent layer is formed by being in contact with the protective layer, and contains compound A represented in the below general formula (1) and compound B, ...

Example 2:

a protective overcoat for protecting said magnetic layer, said overcoat comprising carbon; and
a lubricant, comprising:
a perfluoropolyether main chain having a first end and a second end;
a hexa(trifluoromethylphenoxy)cyclotriphosphazene attached to said first end of perfluoropolyether main chain; and
a bonding enhancer attached to said second end of perfluoropolyether main chain for enhancing bonding to the overcoat, the bonding enhancer selected from the group consisting of multiple hydroxyl groups, multiple amide groups, acetamide, methacrylate, methyl methacrylate and glycidyl ether.

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G11B 5/7268

Definition statement

This place covers:

Protective coatings that include at least one non-organic carbon-based coating material, where that carbon-based coating further includes uncombined nitrogen.

Example:

magnetic patterns, comprising a protruded ferromagnetic layer, separated from each other on the soft magnetic layer;

a nonmagnetic layer formed between the magnetic patterns; and

a protective layer formed on the magnetic patterns and the nonmagnetic layer,

the nonmagnetic layer comprising a nitride of a first element selected from the group consisting of Si, Ti, V, Cr, Ni, Cu, Ga, Y, Zr, Nb, Mo, Hf, Ta, W and Al and an alloy thereof, the first element being distributed over the entire thickness of the nonmagnetic layer, a nitrogen concentration in the nonmagnetic layer being higher on a surface side than on a substrate side, and the protective layer comprising carbon nitride.

References

Informative references

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

Organic macromolecular based lubricant compositions that further include nitrogen (e.g. nitrogen containing lubricants)	C10M 2217/00
Phosphorous-nitrogen lubricants	C10M 2223/08
Phosphorous (e.g. Phosphagene) based lubricant compositions	C10M 2225/00

G11B 5/727

Definition statement

This place covers:

Single protective coating, which is an inorganic carbon-based material, i.e. a compound that does not include organic carbon bonds.

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G11B 5/728

Definition statement

This place covers:

Protective coating that is a bonding-agent type of coating, such as for use above binder-type media.

Special rules of classification

Protective coatings that are specific to thin-film media type record carriers (i.e. those whose magnetic layers would be covered under G11B 5/64) or protective coatings that are generic to either binder-type or thin-film-type record carriers should be classified in G11B 5/72 – G11B 5/727.

If the use of a specific protective layer above a binder-type media layer is disclosed even though the protective layer(s) would be classified in G11B 5/72 – G11B 5/727, an additional symbol may be given in G11B 5/728.

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3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
F	G11B 5/7006	G11B 5/70, G11B 5/718, G11B 5/728
C	G11B 5/72	G11B 5/72, G11B 5/7253, G11B 5/7257, G11B 5/726, G11B 5/7262, G11B 5/7264, G11B 5/7266, G11B 5/7268, G11B 5/727, G11B 5/728
C	G11B 5/722	G11B 5/722, G11B 5/7253, G11B 5/7257, G11B 5/726, G11B 5/7262, G11B 5/7264, G11B 5/7266, G11B 5/7268, G11B 5/727, G11B 5/728
C	G11B 5/725	G11B 5/725, G11B 5/7253, G11B 5/7257, G11B 5/726, G11B 5/7262, G11B 5/7264, G11B 5/7266, G11B 5/7268, G11B 5/727, G11B 5/728

* 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>
G11B 5/7253	G11B 5/725	NEW
G11B 5/7257	G11B 5/725	NEW
G11B 5/726	G11B 5/72	NEW
G11B 5/7262	G11B 5/72	NEW
G11B 5/7264	G11B 5/72	NEW
G11B 5/7266	G11B 5/72	NEW
G11B 5/7268	G11B 5/72	NEW
G11B 5/727	G11B 5/72	NEW
G11B 5/728	G11B 5/72	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.