

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 345

DATE: JANUARY 1, 2017

PROJECT RP0406

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
Symbols deleted:	B64F	5/0009, 5/0018, 5/0027, 5/0036, 5/0045, 5/0054, 5/0063, 5/0072, 5/0081, 5/009
Symbols newly created:	B64F	5/10, 5/20, 5/23, 5/27, 5/30, 5/305, 5/40, 5/45, 5/50, 5/60
Title changes:	B60S	3/00
	B60V	subclass
	B64B	1/66
	B64D	3/00, 3/02, 15/00
	B64F	subclass
	B64F	1/00, 1/005, 1/007, 1/04, 1/14, 1/18, 1/22, 1/28, 1/315, 1/36, 1/368, 3/00, 5/00
Deleted definitions:	B64F	5/0009, 5/0045, 5/0054
Modified definitions:	B23P	6/00
	B60S	3/00
	B60V	subclass
	B64B	1/66
	B64D	3/02
	B64F	1/00, 1/18, 1/22, 1/36, 3/00
	G01R	31/008
Definitions renumbered:	B64F	5/0009 (renumbered to 5/10)
	B64F	5/0045 (renumbered to 5/60)
	B64F	5/0054 (renumbered to 5/20)
New definitions:	B64D	3/00, 15/00
	B64F	1/005, 1/007, 1/04, 1/14, 1/28, 1/315, 5/10, 5/20, 5/60
Scheme note to be modified:	B64F	subclass

The following subclasses are also impacted by this project:

B21J, B23Q, B29C, B60P, B64C

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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 Notice(s)
 - C. New, Modified or Deleted Note(s)
 - D. New, Modified or Deleted Guidance Heading(s)
2. DEFINITIONS (New or Modified)
 - A. DEFINITIONS (Full definition template)
 - B. DEFINITIONS (Definitions Quick Fix)
3. REVISION CONCORDANCE LIST (RCL)
4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5. CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS B60S– SERVICING, CLEANING, REPAIRING, SUPPORTING, LIFTING, OR MANOEUVRING OF VEHICLES, NOT OTHERWISE PROVIDED FOR

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots</u>	<u>Title (new or modified)</u> <u>“CPC only” text in {curly brackets}**</u>	<u>Transferred to[#]</u>
M	B60S3/00	0	Vehicle cleaning apparatus not integral with vehicles (cleaning in general B08B; cleaning peculiar to waterborne vessels B63B57/00, B63B59/00; ground equipment for cleaning aircraft B64F5/30)	

SUBCLASS B60V – AIR-CUSHION VEHICLES (devices for short-distance movement of heavy loads by providing a high-pressure fluid cushion, supplied from an independent source, between load and ground B65G7/06)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots</u>	<u>Title (new or modified)</u> <u>“CPC only” text in {curly brackets}**</u>	<u>Transferred to[#]</u>
M	B60V		AIR-CUSHION VEHICLES	

SUBCLASS B64B – LIGHTER-THAN AIR AIRCRAFT

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots</u>	<u>Title (new or modified)</u> <u>“CPC only” text in {curly brackets}**</u>	<u>Transferred to[#]</u>
M	B64B1/66	1	Mooring attachments	

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**SUBCLASS B64D - EQUIPMENT FOR FITTING IN OR TO AIRCRAFT; FLYING SUITS;
PARACHUTES; ARRANGEMENTS OR MOUNTING OF POWER PLANTS OR PROPULSION
TRANSMISSIONS IN AIRCRAFT**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots</u>	<u>Title (new or modified) “CPC only” text in {curly brackets}**</u>	<u>Transferred to#</u>
M	B64D3/00	0	Aircraft adaptations to facilitate towing or being towed (B64D 39/00 takes precedence)	
M	B64D3/02	1	for towing targets	
M	B64D15/00	0	De-icing or preventing icing on exterior surfaces of aircraft (motor vehicles specially adapted for carrying de-icing equipment B60P)	

SUBCLASS B64F- AIRCRAFT; AVIATION; COSMONAUTICS

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots</u>	<u>Title (new or modified) “CPC only” text in {curly brackets}**</u>	<u>Transferred to#</u>
M	B64F		GROUND OR AIRCRAFT-CARRIER-DECK INSTALLATIONS SPECIALLY ADAPTED FOR USE IN CONNECTION WITH AIRCRAFT; DESIGNING, MANUFACTURING, ASSEMBLING, CLEANING, MAINTAINING OR REPAIRING AIRCRAFT, NOT OTHERWISE PROVIDED FOR; HANDLING, TRANSPORTING, TESTING OR INSPECTING AIRCRAFT COMPONENTS, NOT OTHERWISE PROVIDED FOR	
M	B64F1/00	0	Ground or aircraft-carrier-deck installations (specially adapted for captive aircraft B64F3/00)	
M	B64F1/005	1	{Protective coverings for aircraft not in use}	
M	B64F1/007	1	{Helicopter portable landing pads}	
M	B64F1/04	1	Launching or towing gear	
M	B64F1/14	2	Towers or masts for mooring airships or balloons	
M	B64F1/18	1	Visual or acoustic landing aids {(taxiing aids B64F1/002)}	
M	B64F1/22	1	installed for handling aircraft {(taxiing aids B64F1/002)}	
M	B64F1/28	1	Liquid-handling installations specially adapted for fuelling stationary aircraft	
M	B64F1/315	2	Mobile stairs	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots</u>	<u>Title (new or modified)</u> <u>“CPC only” text in {curly brackets}**</u>	<u>Transferred to#</u>
M	B64F1/36	1	Other airport installations (ground installations for de-icing aircraft B64F5/20)	
M	B64F1/368	2	{Arrangements or installations for routing, distributing or loading baggage}	
M	B64F3/00	0	Ground installations specially adapted for captive aircraft	
M	B64F5/00	0	Designing, manufacturing, assembling, cleaning, maintaining or repairing aircraft, not otherwise provided for; Handling, transporting, testing or inspecting aircraft components, not otherwise provided for	
D	B64F5/0009	1	{Assembling or manufacturing aircraft, e.g. jigs therefor}	<administrative transfer to B64F5/10>
D	B64F5/0018	1	{Cleaning aircraft}	<administrative transfer to B64F5/30>
D	B64F5/0027	2	{Polishing window units}	<administrative transfer to B64F5/305>
D	B64F5/0036	1	{handling or transporting aircraft components}	<administrative transfer to B64F5/50>
D	B64F5/0045	1	{Test or inspection of aircraft components or systems}	<administrative transfer to B64F5/60>
D	B64F5/0054	1	{De-icing aircraft (aircraft-fitted installations for de-icing or preventing icing on exterior surfaces of aircraft B64D15/00)}	<administrative transfer to B64F5/20>
D	B64F5/0063	2	{by liquid application; Spraying installations therefor, e.g. on vehicles (spraying vehicles B60P3/30; materials for application to surfaces to minimize adherence of ice, mist or water thereto C09K3/18)}	<administrative transfer to B64F5/23>
D	B64F5/0072	2	{by radiation, e.g. infrared}	<administrative transfer to B64F5/27>
D	B64F5/0081	1	{Repairing aircraft}	<administrative transfer to B64F5/40>
D	B64F5/009	2	{Methods and equipment for repairing leakages in fuel tanks}	<administrative transfer to B64F5/45>
N	B64F5/10	1	Manufacturing or assembling aircraft, e.g. jigs therefor	
N	B64F5/20	1	Ground installations for de-icing aircraft	
N	B64F5/23	2	by liquid application; Spraying installations therefor, e.g. fitted on vehicles	
N	B64F5/27	2	by irradiation, e.g. of infrared radiation	
N	B64F5/30	1	Cleaning aircraft	
N	B64F5/305	2	{Polishing window units}	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots</u>	<u>Title (new or modified) “CPC only” text in {curly brackets}**</u>	<u>Transferred to#</u>
N	B64F5/40	1	Maintaining or repairing aircraft	
N	B64F5/45	2	Repairing leakages in fuel tanks	
N	B64F5/50	1	Handling or transporting aircraft components	
N	B64F5/60	1	Testing or inspecting aircraft components or systems	

*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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C. New, Modified or Deleted Note(s)

SUBCLASS B64F- GROUND OR AIRCRAFT-CARRIER-DECK INSTALLATIONS

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	B64F	<p>Notes</p> <p>1. In this subclass, the term "installation" embraces equipment, including mobile equipment, peculiar to use in connection with aircraft and not fitted thereto.</p> <p>2. The term "ground installations" in this subclass embraces waterborne installations.</p>	<p>In this subclass, the following terms or expressions are used with the meanings indicated:</p> <ul style="list-style-type: none"> • "installations" embraces equipment, including mobile equipment, peculiar to use in connection with aircraft and not fitted thereto; • "ground installations" embraces waterborne installations.

*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.

2. A. DEFINITIONS (i.e. new)

B64D 3/00

References

Limiting references

This place does not cover:

Refuelling during flight	B64D39/00
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Informative references

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

Ground installations for launching or towing aircraft	B64F
Towing ropes per se	D07B

B64D 15/00

References

Limiting references

This place does not cover:

Motor vehicles specially adapted for carrying de-icing equipment	B60P
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Informative references

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

Ground-installations for de-icing aircraft	B64F5/20
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B64F1/005

References

Informative references

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

Tent-like garages	E04H
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B64F1/007

References

Informative references

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

Paving take-off areas for vertically starting aircraft	E01C9/008
Landing platforms for helicopters	E01F3/00

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B64F1/04**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Railway aspects	B61
Aircraft towing aircraft	B64D3/00
Ammunition launching gear	F41F

B64F1/14**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Mooring attachments of lighter-than-air aircraft	B64B1/66
Building aspects	E04H6/00, E04H12/00

B64F1/28**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Handling liquid in general	B67
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B64F1/315

References

Informative references

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

Movable stairways in general	E04F11/04
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2. B. DEFINITIONS QUICK FIXES

<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>
B23P6/00	Limiting references	Designing, manufacturing, assembling, cleaning, maintaining, or repairing aircraft, not otherwise provided for B64F5/0081	Delete
B23P6/00	Informative references		Create new section with: Repairing aircraft, not otherwise provided for B64F5/40
B60S3/00	Application-oriented references	Cleaning peculiar to waterborne vessels B63B57/00 Ground equipment for cleaning aircraft B64F5/00	Delete
B60S3/00	References out of a residual place		Create section with: Cleaning peculiar to waterborne vessels B63B57/00, B63B59/00 Ground equipment for cleaning aircraft B64F5/30
B60S3/00	Informative references	Snow-mobiles, motorcycles B62M67/00	Delete: reference to B62M67/00 Add following reference: Cleaning in general B08B

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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>
B60V	Limiting references	<p>General manufacturing of various vehicle parts B23P15/00</p> <p>Assembling and disassembling of various metal parts B23P19/04</p> <p>Assembling of a multiplicity of different parts to compose units B23P21/00</p> <p>Designing, manufacturing, assembling, facilitating disassembly, or structurally modifying motor vehicles or trailers B62D65/00</p> <p>The construction of hulls B63B3/00</p> <p>Methods of designing, building, maintaining, converting, refitting, repairing, or determining properties of vessels B63B9/00</p> <p>Designing, manufacturing, or assembling aircraft, not otherwise provided for B64F5/00</p>	<u>Delete All</u>

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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>
B60V	Informative references		<p><u>Add new references:</u></p> <p>General manufacturing of various vehicle parts B23P15/00</p> <p>Assembling and disassembling of various metal parts B23P19/04</p> <p>Assembling of a multiplicity of different parts to compose units B23P21/00</p> <p>Designing, manufacturing, assembling, facilitating disassembly, or structurally modifying motor vehicles or trailers B62D65/00</p> <p>The construction of hulls B63B3/00</p> <p>Methods of designing, building, maintaining, converting, refitting, repairing, or determining properties of vessels B63B9/00</p> <p>Designing, manufacturing, or assembling aircraft, not otherwise provided for B64F5/00</p>
B64B1/66	Limiting references	Mooring masts for airships or balloons B64F1/14	<u>Delete</u>
B64B1/66	Informative references		<p><u>Create new section with:</u></p> <p>Mooring masts for airships or balloons B64F1/14</p>
B64D3/02	Informative references	Targets as such F41J1/00	<p><u>Replace with:</u></p> <p>Towed targets per se F41J</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>
B64F1/00	Limiting references	Aircraft carriers B63 Installations specially adapted for captive aircraft B64F3/00 Fog-dispersal installations E01H Wind tunnels G01M Grounded flight trainers G09B	<u>Delete all, except the reference to B64F3/00:</u> Installations specially adapted for captive aircraft B64F3/00
B64F1/00	Informative references		<u>Create new section with:</u> Aircraft carriers B63 Fog-dispersal installations E01H Wind tunnels G01M Grounded flight trainers G09B
B64F1/18	Limiting references		<u>Create new section with:</u> Taxiing aids B64F1/002
B64F1/22	Limiting references		<u>Create new section with:</u> Taxiing aids B64F1/002

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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>
B64F1/36	Limiting references	Aircraft carriers B63 De-icing installations B64F5/0054 Fog-dispersal installations E01H Wind tunnels G01M Grounded flight trainers G09B	<u>Delete all entries.</u> <u>Add:</u> Ground installations for de-icing aircraft B64F5/20
B64F1/36	Informative references		<u>Add following references:</u> Aircraft carriers B63 Fog-dispersal installations E01H Wind tunnels G01M Grounded flight trainers G09B
B64F3/00	Informative references		<u>Create new section with:</u> Railway aspects B61
B64F5/0009	Symbol		<i>Renumber to: B64F5/10</i>
B64F5/0045	Symbol		<i>Renumber to: B64F5/60</i>
B64F5/0054	Symbol		<i>Renumber to: B64F5/20</i>
B64F5/20 Note: this new symbol renumbered from previous B64F5/0054 above	Limiting references	Aircraft fitted installations for de-icing or preventing icing on exterior surfaces of aircraft B64D 15/00	<u>Delete</u>
B64F5/20 Note: this new symbol renumbered from previous B64F5/0054 above	Informative references		<u>Add new reference:</u> Aircraft-fitted installations for de-icing or preventing icing on exterior surfaces of aircraft B64D15/00

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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>
G01R31/008	Informative references	Test or inspection of aircraft components or systems B64F5/0018	<u>Replace with;</u> Testing or inspecting aircraft components or systems B64F5/60

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 (exivsting)	To CPC Symbol(s)
D	B64F5/0009	<administrative transfer to B64F5/10>
D	B64F5/0018	<administrative transfer to B64F5/30>
D	B64F5/0027	<administrative transfer to B64F5/305>
D	B64F5/0036	<administrative transfer to B64F5/50>
D	B64F5/0045	<administrative transfer to B64F5/60>
D	B64F5/0054	<administrative transfer to B64F5/20>
D	B64F5/0063	<administrative transfer to B64F5/23>
D	B64F5/0072	<administrative transfer to B64F5/27>
D	B64F5/0081	<administrative transfer to B64F5/40>
D	B64F5/009	<administrative transfer to B64F5/45>

* 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, 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>
B64F5/0009		DELETE
B64F5/0018		DELETE
B64F5/0027		DELETE
B64F5/0036		DELETE
B64F5/0045		DELETE
B64F5/0054		DELETE
B64F5/0063		DELETE
B64F5/0072		DELETE
B64F5/0081		DELETE
B64F5/009		DELETE
B64F5/10	B64F5/10	NEW
B64F5/20	B64F5/20	NEW
B64F5/23	B64F5/23	NEW
B64F5/27	B64F5/27	NEW
B64F5/30	B64F5/30	NEW
B64F5/305	B64F5/30	NEW
B64F5/40	B64F5/40	NEW
B64F5/45	B64F5/45	NEW
B64F5/50	B64F5/50	NEW
B64F5/60	B64F5/60	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)

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>
B23Q3/00	B64F5/0009	B64F5/10
B60P3/30	B64F5/0063	B64F5/23

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>
B21J15/142	B64F5/0009	Informative references	B64F5/10
B23Q3/00	B64F5/0009	Limiting references	B64F5/10
B29C73/00	B64F5/0081	Informative references	B64F5/40
B29C73/10	B64F5/0081	Informative references	B64F5/40
B64C1/068	B64F5/0009	Relationships with other classification places	B64F5/10

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.