

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1577

DATE: JANUARY 1, 2024

PROJECT RP12215

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols New:	B64F	1/223, 1/226, 1/35, 1/352
Titles Changed:	B62D	49/00
	B64F	1/02, 1/04, 1/12, 1/22, 1/221, 1/222, 1/225, 1/227, 1/228
Indents Changed:	B64F	1/224, 1/225, 1/227, 1/228
Warnings New:	B64F	1/00, 1/04, 1/10, 1/22, 1/223, 1/224, 1/226, 1/228, 1/34, 1/35, 1/352, 1/36, 1/362, 1/364
DEFINITIONS:		
Definitions New:	B64F	1/222, 1/223, 1/224, 1/225, 1/226, 1/35, 1/352,
Definitions Modified:	B60L	53/00
	B62D	49/00
	B64F	1/002, 1/02, 1/22, 1/362, 1/364
	H02J	SUBCLASS

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

B64C 25/50, B64C 25/68

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)

CPC NOTICE OF CHANGES 1577

DATE: JANUARY 1, 2024

PROJECT RP12215

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS B62D - MOTOR VEHICLES; TRAILERS

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
M	B62D49/00	0	Tractors (of walk type B62D51/04; endless-track features B62D55/00; transport specially adapted for underground galleries E21F13/02)	

SUBCLASS 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

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
C	B64F1/00	0	Ground or aircraft-carrier-deck installations (specially adapted for captive aircraft B64F3/00)	B64F1/00, B64F1/223, B64F1/225, B64F1/227, B64F1/228, B64F1/35
M	B64F1/02	1	for arresting aircraft, e.g. nets or cables	
C	B64F1/04	1	for launching aircraft	B64F1/04, B64F1/223, B64F1/224, B64F1/225, B64F1/226, B64F1/227, B64F1/228
C	B64F1/10	2	using self-propelled vehicles	B64F1/10, B64F1/223, B64F1/225, B64F1/227, B64F1/228
M	B64F1/12	1	for anchoring aircraft	
C	B64F1/22	1	for handling aircraft	B64F1/22, B64F1/223, B64F1/225, B64F1/226, B64F1/227
M	B64F1/221	2	for handling seaplanes	
M	B64F1/222	2	for storing aircraft, e.g. in hangars	
N	B64F1/223	2	for towing aircraft	
T	B64F1/224	3	{Towing bars}	
T	B64F1/225	3	Vehicles specially adapted therefor, e.g. aircraft tow tractors	
N	B64F1/226	4	{hand manipulated, e.g. hand carts or motorised walk-type tractors}	
T	B64F1/227	4	for direct connection to aircraft, e.g. tow tractors without towing bars	
T	B64F1/228	4	remotely controlled; operating autonomously	

CPC NOTICE OF CHANGES 1577

DATE: JANUARY 1, 2024

PROJECT RP12215

C	B64F1/34	1	for starting propulsion plant	B64F1/34, B64F1/35, B64F1/352
N	B64F1/35	1	for supplying electrical power to stationary aircraft	
N	B64F1/352	2	{Mobile units }	
C	B64F1/36	1	Other airport installations (ground installations for de-icing aircraft B64F5/20)	B64F1/36, B64F1/35, B64F1/352
C	B64F1/362	2	{Installations for supplying conditioned air to parked aircraft }	B64F1/362, B64F1/35, B64F1/352
C	B64F1/364	3	{Mobile units }	B64F1/364, B64F1/352

*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 finalization 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.

CPC NOTICE OF CHANGES 1577

DATE: JANUARY 1, 2024

PROJECT RP12215

B. New, Modified or Deleted Warning(s)

SUBCLASS 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

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning</u>
N	B64F 1/00		Group B64F 1/00 is impacted by reclassification into groups B64F 1/223, B64F 1/225, B64F 1/227, B64F 1/228 and B64F 1/35. All groups listed in this Warning should be considered in order to perform a complete search.
N	B64F 1/04		Group B64F 1/04 is impacted by reclassification into groups B64F 1/223, B64F 1/224, B64F 1/225, B64F 1/226, B64F 1/227 and B64F 1/228. All groups listed in this Warning should be considered in order to perform a complete search.
N	B64F 1/10		Group B64F 1/10 is impacted by reclassification into groups B64F 1/223, B64F 1/225, B64F 1/227 and B64F 1/228. All groups listed in this Warning should be considered in order to perform a complete search.
N	B64F 1/22		Group B64F 1/22 is impacted by reclassification into groups B64F 1/223, B64F 1/225, B64F 1/226 and B64F 1/227. All groups listed in this Warning should be considered in order to perform a complete search.
N	B64F 1/223		Groups B64F 1/223, B64F 1/225 and B64F 1/227 are incomplete pending reclassification of documents from groups B64F 1/00, B64F 1/04, B64F 1/10 and B64F 1/22. All groups listed in this Warning should be considered in order to perform a complete search.
N	B64F 1/224		Group B64F 1/224 is incomplete pending reclassification of documents from group B64F 1/04. Groups B64F 1/04 and B64F 1/224 should be considered in order to perform a complete search.
N	B64F 1/226		Group B64F 1/226 is incomplete pending reclassification of documents from groups B64F 1/04 and B64F 1/22. Groups B64F 1/04,

CPC NOTICE OF CHANGES 1577

DATE: JANUARY 1, 2024

PROJECT RP12215

			B64F 1/22 and B64F 1/226 should be considered in order to perform a complete search.
N	B64F 1/228		Group B64F 1/228 is incomplete pending reclassification of documents from groups B64F 1/00, B64F 1/04 and B64F 1/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	B64F 1/34		Group B64F 1/34 is impacted by reclassification into groups B64F 1/35 and B64F 1/352. Groups B64F 1/34, B64F 1/35 and B64F 1/352 should be considered in order to perform a complete search.
N	B64F 1/35		Group B64F 1/35 is incomplete pending reclassification of documents from groups B64F 1/00, B64F 1/34, B64F 1/36 and B64F 1/362. All groups listed in this Warning should be considered in order to perform a complete search.
N	B64F 1/352		Group B64F 1/352 is incomplete pending reclassification of documents from groups B64F 1/34, B64F 1/36, B64F 1/362 and B64F 1/364. All groups listed in this Warning should be considered in order to perform a complete search.
N	B64F 1/36		Group B64F 1/36 is impacted by reclassification into groups B64F 1/35 and B64F 1/352. Groups B64F 1/36, B64F 1/35 and B64F 1/352 should be considered in order to perform a complete search.
N	B64F 1/362		Group B64F 1/362 is impacted by reclassification into groups B64F 1/35 and B64F 1/352. Groups B64F 1/362, B64F 1/35 and B64F 1/352 should be considered in order to perform a complete search.
N	B64F 1/364		Group B64F 1/364 is impacted by reclassification into group B64F 1/352. Groups B64F 1/364 and B64F 1/352 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.

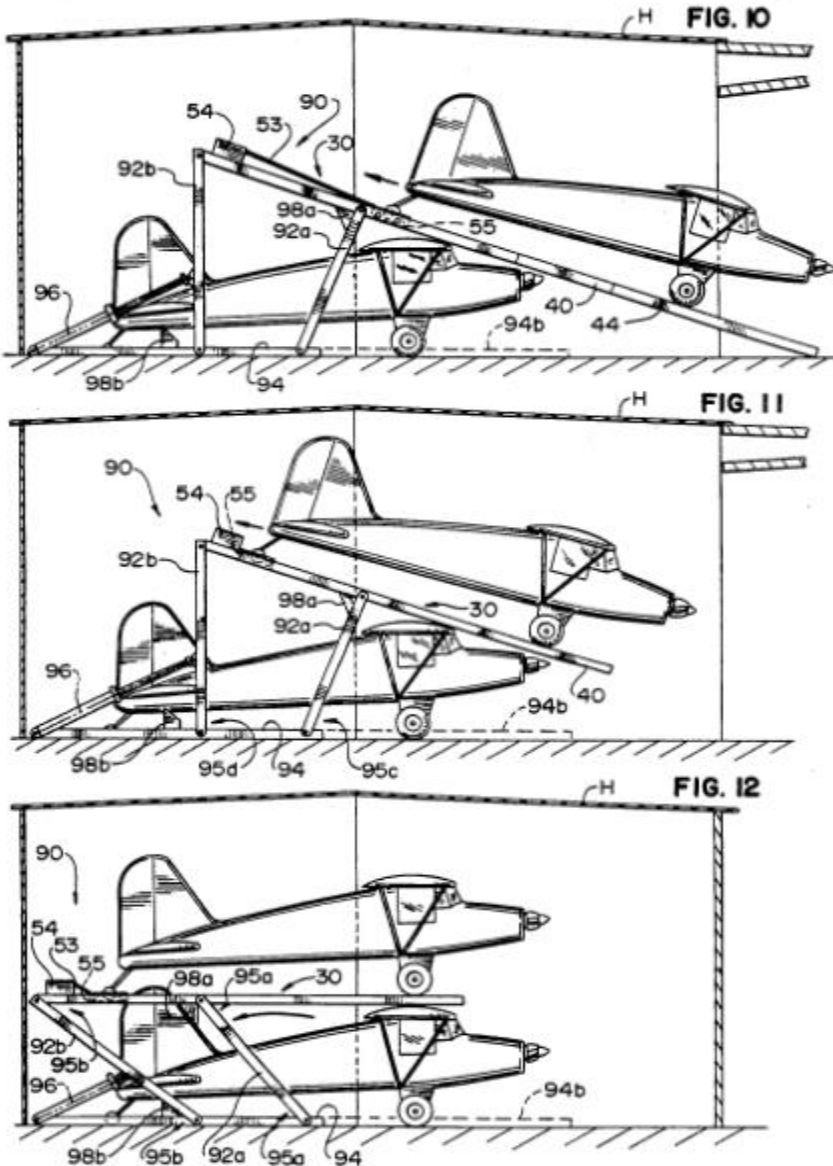
2. A. DEFINITIONS (new)

B64F 1/222

Definition statement

Installations such as conveyors or lifts on the ground, on aircraft-carrier decks or within buildings for moving aircraft to or from storage locations.

Illustrative example of subject matter classified in this group:



References

Informative references

Moving UAV to supply/launch location	B64U 80/10
Buildings for storing aircraft	E04H 6/44

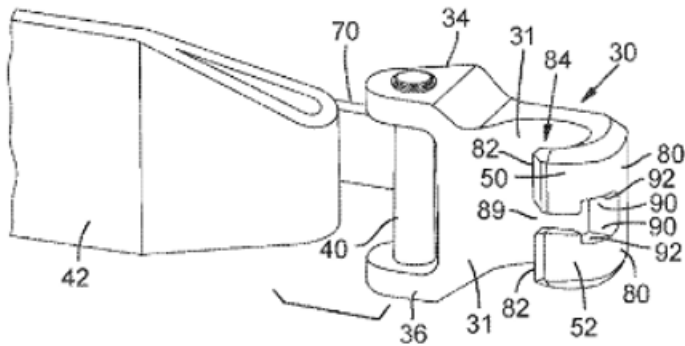
B64F 1/223

Definition statement

This place covers:

Arrangements for towing aircraft while on the ground.

Illustrative example of subject matter classified in this group:



References

Informative references

Aircraft adaptations to facilitate towing or being towed	B64D3/00
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B64F 1/224

Definition statement

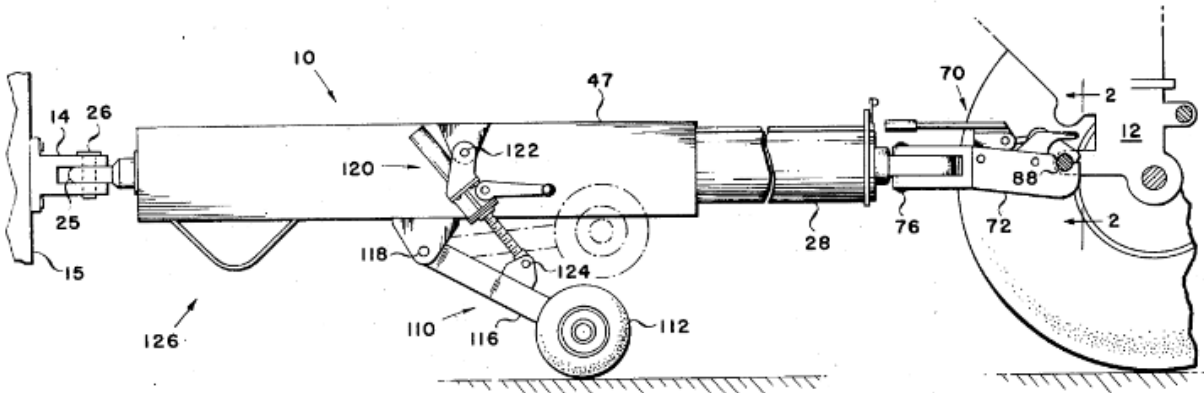
This place covers:

Bars connectable between an aircraft and a vehicle for towing, pushing or steering the aircraft on the ground.

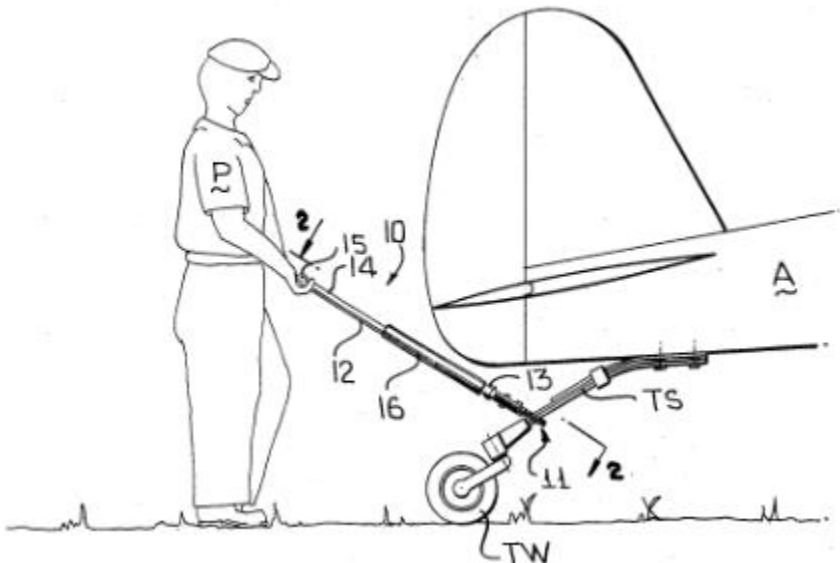
Bars connectable to an aircraft for manually turning or towing the aircraft by a person.

Illustrative example of subject matter classified in this group:

1. Bars connectable between an aircraft and a vehicle:



2. Bars connectable to an aircraft for manually turning or towing:



Synonyms and Keywords

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

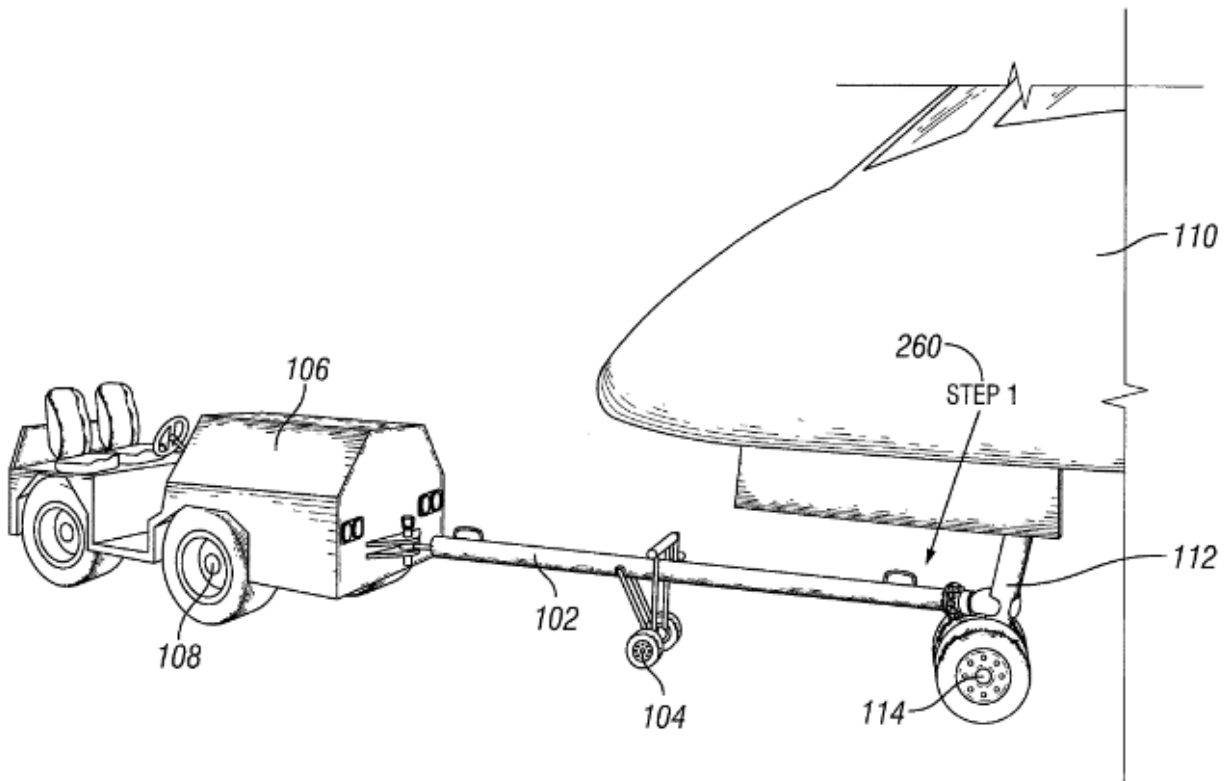
- “towing bar”, “tow bar” and “towing arm”

B64F 1/225

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

Vehicles adapted for carrying aircraft	B60P3/11
Hand-propelled vehicles, e.g. hand carts	B62B
Tractors	B62D49/00
Motor vehicles characterised by the driver not being seated	B62D 51/00

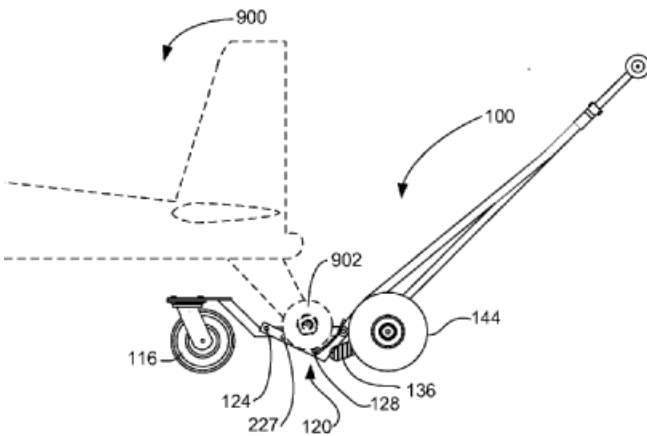
B64F 1/226

Definition statement

This place covers:

Vehicles for towing aircraft which are propelled by a walking person or steered by a walking person manually changing the direction of the vehicle.

Illustrative example of subject matter classified in this group:

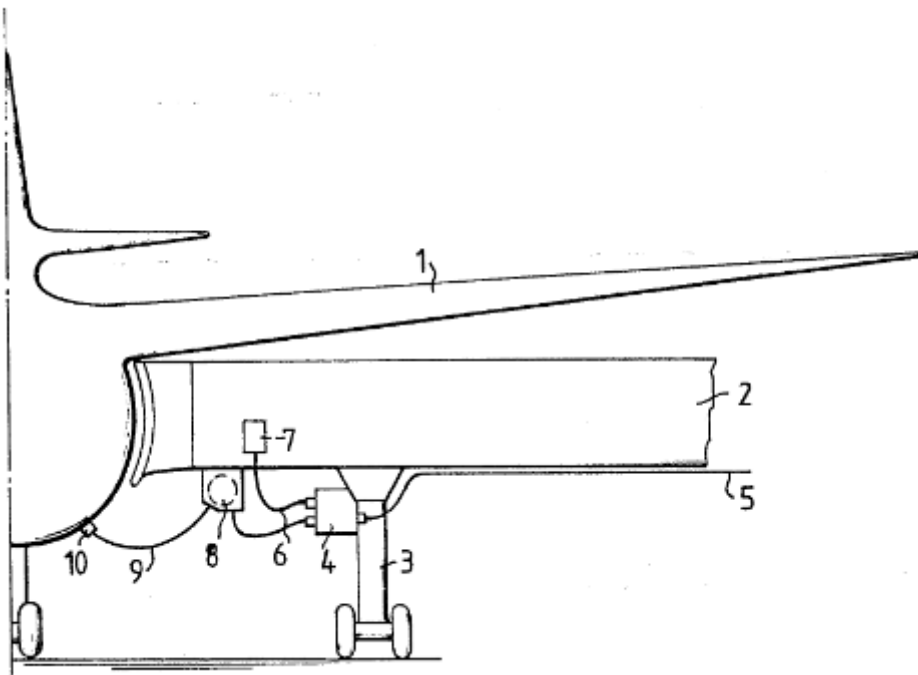


B64F 1/35

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Informative references

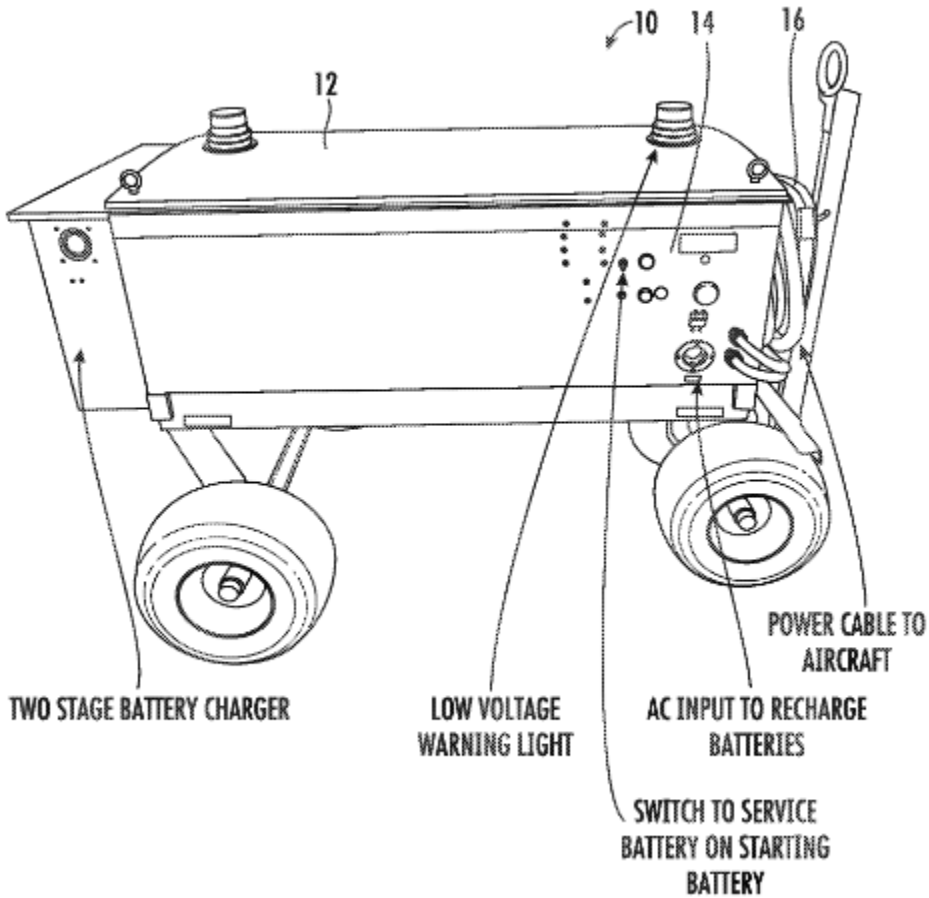
Charging batteries for electric vehicles	B60L 53/00
Recharging batteries for UAVs	B64U 80/25

B64F 1/352

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



2. A. DEFINITIONS (modified)

B60L 53/00

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

Definition statement

This place covers:

Charging and discharging of electric vehicles.

Aspects of:

- charging converter;
- connection means;
- automatic connection;
- exchange of energy storage elements;
- charging stations;
- Methods for;
- identification of vehicles;
- determination of the supplied energy;
- measuring, billing and payment;
- availability of energy.

The vehicles are normally not moving during the charging process. Exceptionally an inductive energy transfer may occur during the ride.

References

Insert: The following new reference in the Informative references section.

Informative references

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

Ground or aircraft-carrier-deck installations for supplying electrical power to stationary aircraft	B64F 1/35
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DATE: JANUARY 1, 2024

PROJECT RP12215

B62D 49/00

Replace: The existing Definition statement with the following updated Definition statement.

Definition statement

This place covers:

- Tractors for pushing or pulling;
- Tractors for semi-trailers;
- Tractors adapted for multi-purpose use;
- Tractors for all kind of tasks, e.g. modified to take lifting devices;
- Tractors having means for preventing overturning or tipping.

References

Delete: The following reference from the Limiting references table.

Limiting references

This place does not cover:

Tractors specially adapted for handling aircraft	B64F 1/22
--	---------------------------

Insert: The following new Application-oriented references section.

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Vehicles specially adapted for handling aircraft, e.g. aircraft tow tractors	B64F 1/225
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DATE: JANUARY 1, 2024

PROJECT RP12215

B64F 1/002

Insert: A semicolon and period at the ends of the lines of the Definition statement, as follows.

Definition statement

This place covers:

- Indicators for taxiways;
- Docking systems for gates.

References

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

Informative references

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

Alighting gear characterised by powered wheels, e.g. for taxiing	B64C 25/405
Ground or aircraft-carrier-deck installations for towing aircraft	B64F 1/223
Visual or acoustic landing aids	B64F 1/18

B64F 1/02

Replace: The existing Definition statement with the following updated Definition statement.

Definition statement

This place covers:

- Net type arresting gear at the end of runways;
- Arresting surfaces;
- Liquid barriers.

DATE: JANUARY 1, 2024

PROJECT RP12215

B64F 1/22

References

Delete: The entire Limiting references section.

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

Informative references

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

Taxiing aids	B64F 1/002
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Delete: The entire Special rules of classification section.

B64F 1/362

Replace: The existing Definition statement with the following updated Definition statement.

Definition statement

This place covers:

- Fixed installations for supplying conditioned air to aircraft;
- Hoses therefor.

References

Insert: The following new reference in the Informative references table.

Informative references

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

Air conditioning for aircraft crew or passengers, or freight space	B64D13/06
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DATE: JANUARY 1, 2024

PROJECT RP12215

B64F 1/364

Replace: The existing Definition statement with the following updated Definition statement.

Definition statement

This place covers:

Mobile installations for supplying conditioned air to aircraft.

References

Insert: The following new reference in the Informative references table.

Informative references

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

Air conditioning for aircraft crew or passengers, or freight space	B64D13/06
--	---------------------------

H02J

Replace: The existing Definition statement with the following updated Definition statement.

Definition statement

This place covers:

- ac and/or dc supplying systems;
- ac and/or dc distribution networks;
- circuit arrangements for battery supplies, including charging or control thereof, or coordinated supply from two or more sources of any kind;
- circuit arrangement providing remote indication and control of a network switch;
- systems for supplying or distributing electric power by electromagnetic waves.

CPC NOTICE OF CHANGES 1577

DATE: JANUARY 1, 2024

PROJECT RP12215

References

Insert: The following new reference in the Application-oriented references table.

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Ground or aircraft-carrier-deck installations for supplying electrical power to stationary aircraft	B64F 1/35
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CPC NOTICE OF CHANGES 1577

DATE: JANUARY 1, 2024

PROJECT RP12215

3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	B64F1/00	B64F1/00, B64F1/223, B64F1/225, B64F1/227, B64F1/228, B64F1/35
C	B64F1/04	B64F1/04, B64F1/223, B64F1/224, B64F1/225, B64F1/226, B64F1/227, B64F1/228
C	B64F1/10	B64F1/10, B64F1/223, B64F1/225, B64F1/227, B64F1/228
C	B64F1/22	B64F1/22, B64F1/223, B64F1/225, B64F1/226, B64F1/227
C	B64F1/34	B64F1/34, B64F1/35, B64F1/352
C	B64F1/36	B64F1/36, B64F1/35, B64F1/352
C	B64F1/362	B64F1/362, B64F1/35, B64F1/352
C	B64F1/364	B64F1/364, B64F1/352

* 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 finalization projects.

CPC NOTICE OF CHANGES 1577

DATE: JANUARY 1, 2024

PROJECT RP12215

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B64F 1/221	B64F 1/221	UPDATE
B64F 1/222	B64F 1/222	UPDATE
B64F 1/223	B64F 1/223	NEW
B64F 1/224	B64F 1/223	UPDATE
B64F 1/225	B64F 1/225	UPDATE
B64F 1/226	B64F 1/225	NEW
B64F 1/227	B64F 1/227	UPDATE
B64F 1/228	B64F 1/228	UPDATE
B64F 1/35	B64F 1/35	NEW
B64F 1/352	B64F 1/35	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.

CPC NOTICE OF CHANGES 1577

DATE: JANUARY 1, 2024

PROJECT RP12215

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>
B64C25/50	B64F1/22	Informative References	Ground or aircraft-carrier-deck installations for towing aircraft B64F1/223
B64C25/68	B64F1/04	Informative References	Ground or aircraft-carrier-deck installations for launching aircraft

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.