B64D

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

Definition statement

This place covers:
- Dropping, ejecting, releasing or receiving articles in flight.
- Arrangements of military equipment.
- Equipment for handling freight
- Flying suits
- Passenger or crew accommodation; arrangements of seats
- Air-treatment
- De-icing
- Parachutes
- Emergency apparatus
- Mounting power plant in aircraft, nacelles fairings, arrangement of power plants
- Power plant control
- Transmitting power from power plants to propellers or rotors
- Fuel supply
- Fuel tanks
- Refuelling during flight
- Arrangements of instruments
- Indicators

Special rules of classification

Indexing Code-codes with identical symbols starting with B64D are used for classifying additional information.

B64D 1/04

the articles being explosive, e.g. bombs (arming or setting bomb fuzes F42C)

Definition statement

This place covers:

Ejector systems for missiles

Devices for separating bombs from fuselage.

References

Limiting references

This place does not cover:

| Bombs, Missiles | F42B |
**Informative references**

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

<table>
<thead>
<tr>
<th>Rocket launchers</th>
<th>B64D 7/08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arming or setting bomb fuzes</td>
<td>F42C</td>
</tr>
</tbody>
</table>

**B64D 1/06**

**Bomb releasing; Bombs doors**

**Definition statement**

*This place covers:*

Bomb bays in fuselages

Bomb doors of bomb bays.

**References**

**Informative references**

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

<table>
<thead>
<tr>
<th>Bombs</th>
<th>F42B</th>
</tr>
</thead>
</table>

**B64D 1/10**

**Stowage arrangements for the devices in aircraft**

**Definition statement**

*This place covers:*

Arrangements for holding the load in the aircraft fuselage or means adapted to release the load.

**References**

**Informative references**

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

<table>
<thead>
<tr>
<th>Retaining devices for pallets or freight containers</th>
<th>B64D 9/003</th>
</tr>
</thead>
</table>

**B64D 1/12**

**Releasing**

**Definition statement**

*This place covers:*

Extractor parachutes

Ejector devices.
B64D 1/14
Absorbing landing shocks

Definition statement

This place covers:
Rockets used as braking devices
Cushioning devices; shock absorbers, springs, etc. for absorbing landing chocks on load-carrying articles dropped/ejected/released from an aircraft.

One or more rocket could be positioned on the load and ignited just prior to touch-down, such that the rocket thrust brakes/cushions the arrival on the ground, as shown in this example (ignited rockets (22) circled in red):
**B64D 1/16**

**Dropping or releasing powdered, liquid, or gaseous matter, e.g. for fire-fighting (jettisoning fuel B64D 37/26)**

**Definition statement**

*This place covers:*

- Fire fighting aircraft
- Water baskets hanging below helicopters.

**References**

**Limiting references**

*This place does not cover:*

| Jettisoning fuel                  | B64D 37/26 |

**Informative references**

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

| Fire fighting or fire prevention | A62C 3/00 |

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**B64D 1/22**

**Taking-up articles from earth's surface**

**Definition statement**

*This place covers:*

- Devices adapted on aircraft for hanging loads
- Helicopter devices for transporting hanging loads

**References**

**Informative references**

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

| Repair of electric lines          | H02G 1/02 |

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**B64D 3/00**

**Aircraft adaptations to facilitate towing or being towed (B64D 39/00 takes precedence)**

**References**

**Limiting references**

*This place does not cover:*

| Refuelling during flight           | B64D 39/00 |

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

<table>
<thead>
<tr>
<th>Ground installations for launching or towing aircraft</th>
<th>B64F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Towing ropes per se</td>
<td>D07B</td>
</tr>
</tbody>
</table>

B64D 3/02
for towing targets

Definition statement
This place covers:
Devices mounted on aircraft for towing targets.

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

| Towed targets per se                                  | F41J |

B64D 5/00
Aircraft transported by aircraft, e.g. for release or reberthing during flight (flying units formed by separate aircraft B64C 37/02)

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

<table>
<thead>
<tr>
<th>Flying units formed by separate aircraft</th>
<th>B64C 37/02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Space shuttles</td>
<td>B64G 1/14</td>
</tr>
</tbody>
</table>

B64D 7/00
Arrangements of military equipment, e.g. armaments, armament accessories, or military shielding, in aircraft; Adaptations of armament mountings for aircraft (dropping bombs or the like B64D 1/00; armaments or mountings therefor per se F41)

Definition statement
This place covers:
Stealth structures
Armoured structures.
References

Limiting references
This place does not cover:

| Dropping bombs or the like | B64D 1/00 |

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

| Armoured garments | F41H 1/00 |
| Camouflage       | F41H 3/00 |

B64D 7/08

Arrangements of rocket launchers (or releasing means) (rocket launchers per se, e.g. rocket pods, F41F 3/06)

Definition statement
This place covers:
Rail systems for rockets.

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

| Ejector systems for missiles | B64D 1/04 |
| Rocket launchers per se, e.g. rocket pods | F41F 3/06 |

B64D 9/00

Equipment for handling freight; Equipment for facilitating passenger embarkation or the like (emergency equipment B64D 17/00, B64D 19/00, B64D 25/00; structures integral with fuselage to facilitate loading, fuselage floors specially adapted for freight, steps mounted on and retractable within aircraft B64C; ground installations B64F)

Definition statement
This place covers:
Loadings systems and methods
Cargo handling.

References
Limiting references
This place does not cover:

| Emergency equipment | B64D 17/00, B64D 19/00, B64D 25/00 |
Structures integral with fuselage to facilitate loading, fuselage floors specially adapted for freight, steps mounted on and retractable within aircraft  B64C

Ground installations  B64F

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

- Securing or forwarding containers in vehicles  B60P 7/13
- Aircraft floors adapted for freight  B64C 1/20
- Aircraft ramps for loading  B64C 1/22
- Containers  B65D 1/00
- Roller ways  B65G 13/00
- Weighing aircraft  G01G 19/07
- Determining centre of gravity in aircraft  G01M 1/125

Special rules of classification
There will be an indexing scheme for:

- Powered cargo rollers (PDU)

Glossary of terms
In this place, the following terms or expressions are used with the meaning indicated:

<table>
<thead>
<tr>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Drive Unit (PDU)</td>
<td>Powered rollers and drives to move containers and pallets within aircraft fuselages or cargo bays</td>
</tr>
</tbody>
</table>

B64D 10/00

Flying suits (helmets in general A42B 3/00; breathing helmets A62B 18/00)

Definition statement
This place covers:
- Garments for pilots, e.g. g-suits, trousers or bladders
- Helmets
- Oxygen supply, e.g. valves, pilots’ masks or controllers.

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

- Helmets in general  A42B 3/00
- Respiratory or breathing apparatus  A62B 7/00
- High-altitude pressure suits  A62B 17/008
- Breathing helmets  A62B 18/00
Special rules of classification
There will be an indexing scheme for:
Anti-G suits and garments
High altitude suits
Suits with cooling or warming means.

B64D 11/00
Passenger or crew accommodation; Flight-deck installations not otherwise provided for

Definition statement
This place covers:
Cabin layouts
Passengers' oxygen masks.

Special rules of classification
There will be an indexing scheme for:
Emergency oxygen supply and distribution systems
Passengers oxygen masks, their storage or deployment
Aircraft cabin illumination systems
Modular (preassemblies) units to create cabin structure, including interior layout
Cabin reading lights, e.g. passenger individual reading lights.

B64D 11/0007
{Devices specially adapted for food or beverage distribution services}

Definition statement
This place covers:
Food and beverage distribution systems
Interaction between trolley and cabin.

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

| Trolleys adapted to be used in vehicles | A47B 31/06 |
B64D 11/0015
{Arrangements for entertainment or communications, e.g. radio, television}

Definition statement

This place covers:
Aircraft cabin layouts characterised by arrangements of components for amusement or media, e.g. arrangements of monitors, speakers or control means therefor

Arrangements of communication means for cabin crew or passenger use

Display of navigation data on monitors for passenger information

References

Informative references

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

<table>
<thead>
<tr>
<th>Accessory/Arrangement</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessories for chairs, adaptations for incorporating lamps, radio sets, bars, telephones, ventilation, heating or cooling arrangements or the like</td>
<td>A47C 7/72</td>
</tr>
<tr>
<td>Arrangements or adaptations of other passenger fittings (of radio sets, television sets, telephones, stowing or holding appliances) in land-type vehicles</td>
<td>B60N 3/00</td>
</tr>
<tr>
<td>Furniture for vessels</td>
<td>B63B 29/04</td>
</tr>
<tr>
<td>Combined measuring instruments indicating more than one navigational value, e.g. for aircraft</td>
<td>G01C 23/00</td>
</tr>
</tbody>
</table>

Special rules of classification

Documents concerning only the data transfer between components of an aircraft cabin entertainment/communication system are attributed the symbol B64D 11/0015 as additional information only.

B64D 11/06

{Arrangements of seats, or adaptations or details specially adapted for aircraft seats (crew seat constructions for emergency purposes B64D 25/04)}

Definition statement

This place covers:
Arrangements, configurations or modifications of seats or chairs, or particular seat or chair structures for aeronautical passengers. For passengers only, unless otherwise stated (Seats specially adapted for pilots B64D 11/0689 and Seats specially adapted for cabin crew B64D 11/0691).

References

Limiting references

This place does not cover:
Crew seat constructions for emergency purposes B64D 25/04
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Chairs adapted for special (ground) purposes | A47C 1/00 |
| Theatre, auditorium, or similar chairs | A47C 1/12 |
| Vehicle seats | B60N 2/00 |
| Arrangement or mounting of seats in vehicles | B60N 2/005 |
| Vehicle seat accessories | B60N 3/00 |
| Railway seats | B61D 33/00 |
| Marine vessel seats | B63B 2029/043 |

Special rules of classification
A document will be considered as disclosing an aircraft seat if:
- this use is explicitly mentioned,
- it is evident from e.g. the drawings that it is such a seat, or
- if the document originates from the aircraft industry or an airline.

B64D 11/0604
{including a bed, e.g. cocoon type passenger seat modules}

Definition statement
This place covers:
- Seat or chair units combined with a generally horizontal surface for a reclining person and can include a canopy-type structure substantially enclosing the occupant(s)
- Additional and separate surfaces or parts to form a bed

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

| Crew member rest berths | B64D 2011/0076 |
| Passenger bed units attached to the fuselage ceiling | B64D 2011/0084 |
| Arrangements of stretchers in aircraft cabins | B64D 2011/0092 |
| Aircraft passenger seats convertible to a bed | B64D 11/0641 |

B64D 11/0605
{including tables or desks}

Definition statement
This place covers:
Seat or chair units combined with a generally horizontal surface above a floor and can include storage space
References

Informative references

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

| Arrangements or adaptations of other passenger fittings, of table or tray | B60N 3/002 |

B64D 11/0606

{with privacy shells, screens, separators or the like (class dividers B64D 11/0023)}

Definition statement

This place covers:
Seat or chair units combined with visual obstructions to other passengers

References

Limiting references

This place does not cover:

| Class dividers | B64D 11/0023 |

B64D 11/0607

{with devices specially adapted for exercising during travel; with devices specially adapted to prevent thrombosis}

Definition statement

This place covers:
Seats or chairs combined with appliances for a person's conditioning, muscle development, or anticlotting

References

Informative references

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

| Stools or chairs having exercising means or having special therapeutic or ergonomic effects | A47C 9/002 |
| Pneumatic or hydraulic massage | A61H 9/00 |
| Pneumatic massage with intermittent or alternately inflated bladders or cuffs | A61H 9/0078 |
| Physical therapy devices for anti-thrombosis or anti-clotting | A61H 2209/00 |
| Vehicle seats with massaging systems | B60N 2/976 |
B64D 11/0611
{with means for holding the passenger in a standing position}

Definition statement
This place covers:
Seats or chairs combined with a structure to steady an upright person

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

| Safety belts or body harnesses in vehicles | B60R 22/00 |

B64D 11/0612
{specially adapted for children}

Definition statement
This place covers:
Seat or chair modifications or accessories for accommodating a pre-adult aircraft passenger

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

| Vehicle passenger seats for children | B60N 2/26 |

B64D 11/0616
{with ejection means}

Definition statement
This place covers:
Seats combined with a device to propel a passenger away from the seat

References
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:

| Pilot type ejection seats | B64D 25/10 |

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

| Ejecting or escaping means | B64D 25/08 |
**B64D 11/0619**

{with energy absorbing means specially adapted for mitigating impact loads for passenger seats, e.g. at a crash}

**Definition statement**

This place covers:

Seats or chairs combined with a device or special design to dissipate deceleration

**References**

**Informative references**

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seat modifications for pilots</td>
<td>B64D 25/04</td>
</tr>
<tr>
<td>Seat constructed to protect the occupant from the effect of abnormal g-</td>
<td>B60N 2/42</td>
</tr>
<tr>
<td>forces</td>
<td></td>
</tr>
<tr>
<td>Arrangements or fittings on vehicles for protecting or preventing injuries to occupants</td>
<td>B60R 21/00</td>
</tr>
</tbody>
</table>

**B64D 11/062**

{Belts or other passenger restraint means for passenger seats}

**Definition statement**

This place covers:

Seats or chairs combined with a torso or limb encircling device, or a device to hold an aircraft passenger in place

**References**

**Informative references**

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harnessing for pilots</td>
<td>B64D 25/06</td>
</tr>
<tr>
<td>Safety belts or body harnesses in general</td>
<td>A62B 35/00</td>
</tr>
<tr>
<td>Safety belts or body harnesses in vehicles</td>
<td>B60R 22/00</td>
</tr>
</tbody>
</table>

**B64D 11/06205**

{Arrangements of airbags}

**Definition statement**

This place covers:

Seats or chairs combined with a device to hold a passenger in place including an inflatable confining device
References

Informative references

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

Inflatable occupant restraints or confinements designed to inflate upon impact or impending impact, e.g., air bags | B60R 21/16

B64D 11/0624

{Arrangements of electrical connectors, e.g. for earphone, internet or electric supply}

Definition statement

This place covers:

Seats or chairs combined with a configuration of mated conductors used to transmit sound, images, or current

References

Informative references

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

Arrangement of elements of electric or fluid circuits specially adapted for vehicles | B60R 16/00

B64D 11/0626

{with individual temperature or ventilation control}

Definition statement

This place covers:

Seats or chairs combined with personal heating, cooling, or air circulation means

References

Informative references

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

Cabin ventilation nozzles | B64D 2013/003
Heating or ventilating devices for a vehicle | B60N 2/56

B64D 11/0627

{Seats combined with storage means}

Definition statement

This place covers:

Seats or chairs combined with a cabinet or cabinet-type structure
## References

### Informative references

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

<table>
<thead>
<tr>
<th>Stowage devices for passengers’ personal luggage in aircraft</th>
<th>B64D 11/003</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal storage means or waste disposal bags</td>
<td>B64D 11/0636</td>
</tr>
<tr>
<td>Stowing or holding appliances inside vehicle primarily intended for personal property smaller than a suitcase</td>
<td>B60R 7/00</td>
</tr>
</tbody>
</table>

### B64D 11/0636

**{Personal storage means or waste disposal bags}**

### Definition statement

This place covers:

Seats or chairs with storage means for a passenger's carry-on belongings or for garbage disposal

### References

### Informative references

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

<table>
<thead>
<tr>
<th>Stowage devices for passengers’ personal luggage in aircraft</th>
<th>B64D 11/003</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seats combined with cabinet-type storage means</td>
<td>B64D 11/0627</td>
</tr>
<tr>
<td>Stowing or holding appliances inside vehicle primarily intended for personal property smaller than a suitcase</td>
<td>B60R 7/00</td>
</tr>
</tbody>
</table>

### B64D 11/0639

**{with features for adjustment or converting of seats}**

### Definition statement

This place covers:

Seats or chairs having structures permitting repositioning seat or chair portions or altering the configuration

### References

### Informative references

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

<table>
<thead>
<tr>
<th>Reclining or easy chairs</th>
<th>A47C 1/02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle seat or part thereof being movable, e.g. adjustable</td>
<td>B60N 2/02</td>
</tr>
</tbody>
</table>
B64D 11/06395
{characterised by the arrangement of electric motors for adjustment}

Definition statement
This place covers:
Arrangement of powered devices to reposition or alter a seat portion

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

<table>
<thead>
<tr>
<th>Reference Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reclining or easy chairs adjustable via electric motor</td>
<td>A47C 1/0242</td>
</tr>
<tr>
<td>Vehicle seat or part thereof being movable or adjustable via an electric motor</td>
<td>B60N 2/0232</td>
</tr>
</tbody>
</table>

B64D 11/064
{Adjustable inclination or position of seats}

Definition statement
This place covers:
Seat or chair tilt or position configuration

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

<table>
<thead>
<tr>
<th>Reference Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reclining or easy chairs</td>
<td>A47C 1/02</td>
</tr>
<tr>
<td>Vehicle seat or part thereof being movable, e.g. adjustable</td>
<td>B60N 2/02</td>
</tr>
</tbody>
</table>

B64D 11/0642
{Adjustable headrests}

Definition statement
This place covers:
Seats or chairs with a repositionable support for a passenger's portion above the torso, including the neck and/or the head

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

<table>
<thead>
<tr>
<th>Reference Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairs with head rest</td>
<td>A47C 7/46</td>
</tr>
<tr>
<td>Vehicle seat with movable or adjustable head rest</td>
<td>B60N 2/806</td>
</tr>
</tbody>
</table>
**B64D 11/0643**

{Adjustable foot or leg rests}

**Definition statement**

*This place covers:*

Seats or chairs with a repositionable support for a passenger's lower body, including legs and/or feet

**References**

*Informative references*

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

<table>
<thead>
<tr>
<th>Reference</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairs with leg or foot rest</td>
<td>A47C 1/034, A47C 7/506</td>
</tr>
<tr>
<td>Seats for vehicle with leg or foot rest</td>
<td>B60N 2/995, B60N 3/06</td>
</tr>
</tbody>
</table>

**B64D 11/0644**

{Adjustable arm rests}

**Definition statement**

*This place covers:*

Seats or chairs with a repositionable passenger upper body extremity support, such as one or both arms

**References**

*Informative references*

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

<table>
<thead>
<tr>
<th>Reference</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairs with adjustable arm rest</td>
<td>A47C 1/03, A47C 7/541</td>
</tr>
<tr>
<td>Vehicle seat with adjustable arm rests</td>
<td>B60N 2/763</td>
</tr>
</tbody>
</table>

**B64D 11/0646**

{Seats characterised by special features of stationary arms, foot or head rests}

**Definition statement**

*This place covers:*

Seats or chairs with particular characteristic of fixed supports for body parts other than the torso

**References**

*Informative references*

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

<table>
<thead>
<tr>
<th>Reference</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairs with head rest</td>
<td>A47C 7/36</td>
</tr>
<tr>
<td>Chairs with leg or foot rests</td>
<td>A47C 7/50</td>
</tr>
<tr>
<td>Chairs with stationary arm rests</td>
<td>A47C 7/54</td>
</tr>
<tr>
<td>Seats for vehicle with arm rests</td>
<td>B60N 2/75</td>
</tr>
</tbody>
</table>
Seats for vehicles with fixed head rest  B60N 2/803
Seats for vehicle with leg or foot rests  B60N 2/995, B60N 3/06

B64D 11/0647

{Seats characterised by special upholstery or cushioning features}

Definition statement
This place covers:
Seats or chairs with particular characteristic of a soft covering or padding

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

<table>
<thead>
<tr>
<th>Seat or chairs with particular characteristic of a soft covering or padding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair of special materials  A47C 5/00</td>
</tr>
<tr>
<td>Vehicle seat with upholstery  B60N 2/70</td>
</tr>
</tbody>
</table>

B64D 11/0648

{Lower frame constructions}

Definition statement
This place covers:
Seat or chair frames, understructure or substructure between seat pan and fastening means to a floor

References
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:

| Crash frames  B64D 11/0619 |

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

| Vehicle seat constructed to protect the occupant from the effect of abnormal-forces, e.g. crash or safety seats  B60N 2/42 |

B64D 11/0649

{Seats characterised by special features for reducing weight}

Definition statement
This place covers:
Seat or chair design or components therefore minimizing the weight
- Designs without a frame, e.g. using a back plate
• Use of materials such as plastic, aluminum, composites, etc. with the objective task to reduce weight
• Pneumatic elements
• One piece design, i.e. integral back and bottom
• Hollow pieces, e.g. tubular frame members

**B64D 11/0691**
{specially adapted for cabin crew}

**Definition statement**

*This place covers:*
Seats or chairs designed to be deployed during take-off and landing and stowed during flight, e.g. foldable seats on a wall or bulkhead specifically for a purser or flight attendant

**B64D 11/0693**
{Width modification of seat assemblies, e.g. for class modification}

**Definition statement**

*This place covers:*
Seats or chairs with means for transverse adjustment, e.g. to accommodate an additional person

**References**

*Informative references*

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

| Vehicle seats with transverse adjustment of arm rests | B60N 2/777 |

**B64D 11/0696**
{Means for fastening seats to floors, e.g. to floor rails}

**Definition statement**

*This place covers:*
Seat-side structures to attach a seat or chair to receiving means of a cabin floor

**References**

*Informative references*

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

| Vehicle seat positioning and locking mechanism | B60N 2/919 |
| Floors specially adapted for fixing freight | B64C 1/20 |
B64D 11/0697

{Seats suspended from aircraft ceiling}

Definition statement

This place covers:
Structure to attach seats or chairs to the passenger cabin overhead surface

B64D 11/0698

{Seats suspended from aircraft walls}

Definition statement

This place covers:
Structure to attach seats or chairs to the passenger cabin side or generally vertical surface
- Hammock type seats
- Seats used in troop transport aircraft

B64D 13/00

Arrangements or adaptations of air-treatment apparatus for aircraft crew or passenger, or freight space; {or structural parts of the aircraft} (treatment rooms with artificial climate for medical purposes A61G 10/02; respiratory apparatus in general A62B; for for vehicles in general B60H)

Definition statement

This place covers:
Accessories for air-conditioning systems; e.g. valves, nozzles, air mixing chambers.

References

Informative references

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

<table>
<thead>
<tr>
<th>Attention is drawn to the following places, which may be of interest for search:</th>
<th>A61G 10/02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment rooms with artificial climate for medical purposes</td>
<td></td>
</tr>
<tr>
<td>Respiratory apparatus in general</td>
<td>A62B</td>
</tr>
<tr>
<td>For vehicles in general</td>
<td>B60H</td>
</tr>
<tr>
<td>Valves</td>
<td>F16K 1/00</td>
</tr>
</tbody>
</table>

Special rules of classification

There will be an indexing scheme for:

Air nozzles for passenger ventilation.
B64D 13/006
{the air being used to cool structural parts of the aircraft}

Definition statement

This place covers:
Arrangements and devices to direct cooling air from air-conditioning to structural parts of the aircraft.

References

Informative references

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

<table>
<thead>
<tr>
<th>Conditioning fuel</th>
<th>B64D 37/34</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuselage structures adapted to reduce the effects of aerodynamic or other external heating</td>
<td>B64C 1/38</td>
</tr>
<tr>
<td>Aircraft heat insulation</td>
<td>B64C 1/40</td>
</tr>
<tr>
<td>Wing constructions adapted to reduce effects of aerodynamic or other external heating</td>
<td>B64C 3/36</td>
</tr>
</tbody>
</table>

B64D 13/02

the air being pressurised

Definition statement

This place covers:
Cabin pressurising valves
Security devices.

References

Informative references

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

| Valves                                                      | F16K 1/00  |

B64D 13/04

Automatic control of pressure

Definition statement

This place covers:
Cabin pressurising systems.
B64D 13/06

the air being conditioned (pressurising B64D 13/02)

Definition statement

This place covers:
Air conditioning systems; e.g. air cycle machines.

References

Informative references

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

| Cabin pressurizing systems                        | B64D 13/02 |
| Air cycle machines in general                     | F25B 9/004 |

Special rules of classification

There will be an indexing scheme for Environmental Control Systems (ECS):

- ECS providing hot air or liquid for de-icing non-ECS components
- ECS with provisions for cooling avionics or using avionics waste heat
- ECS with provisions to reduce or manage the amount of bleed air
- ECS used in combination with boundary layer control
- ECS with means for cabin air effusion; i.e. distribution of air in the cabin
- ECS with subsystems for cooling food, catering or loads
- ECS using where chemical reactions, e.g. using heat from e.g. chemical components
- ECS with CO2 removers or CO2 content control
- ECS with dual systems
- ECS using electric motors or generators
- ECS with energy recovery means energy for pressurized cabins
- ECS using filters; e.g. against smoke
- ECS with provisions for cooling or inerting fuel systems
- ECS with humidity control
- ECS with means for preventing icing in ECS components
- ECS with ionizers
- ECS including a liquid subsystem
- ECS combined with OBOGS
- ECS with Oxygen content control
- ECS with Ozone content control
ECS where the air is recirculated into and from the cabin, i.e. with recirculation
ECS with special provisions against smoke from cigarettes
ECS combined with power plant starting systems
ECS with air flow, temperature or humidity controls for cabin zones or personal areas

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

<table>
<thead>
<tr>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECS</td>
<td>Environmental control system</td>
</tr>
<tr>
<td>OBOGS</td>
<td>On-Board Oxygen Generation System</td>
</tr>
</tbody>
</table>

B64D 13/08

the air being heated or cooled

Definition statement

This place covers:
Systems for cooling or heating cabin air, e.g. using heat from radiator.

Heaters

Cabin ventilation systems.

References

Informative references

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

| Heating, cooling or ventilating devices in vehicles | B60H 1/00 |

B64D 15/00

De-icing or preventing icing on exterior surfaces of aircraft (motor vehicles specially adapted for carrying de-icing equipment B60P)

References

Limiting references

This place does not cover:

| Motor vehicles specially adapted for carrying de-icing equipment | B60P |

Informative references

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

| Ground-installations for de-icing aircraft | B64F 5/20 |
**B64D 25/00**

Emergency apparatus or devices, not otherwise provided for (parachutes B64D 17/00, B64D 19/00; jettisoning of fuel tanks or fuel per se B64D 37/00; (specially adapted for protection against criminal attack, e.g. anti-hijacking systems B64D 45/0015) ; safety belts or body harnesses in general A62B 35/00; safety belts or body harnesses for land vehicles B60R 22/00; jettisonable parts of fuselage facilitating emergency escape B64C)

**Definition statement**

*This place covers:*

Fire extinguishing

Safety airbags.

**References**

**Informative references**

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

<table>
<thead>
<tr>
<th>Parachutes</th>
<th>B64D 17/00, B64D 19/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jettisoning of fuel tanks</td>
<td>B64D 37/00</td>
</tr>
<tr>
<td>Protection against criminal attack</td>
<td>B64D 45/0015</td>
</tr>
<tr>
<td>Safety belts or body harnesses in general</td>
<td>A62B 35/00</td>
</tr>
<tr>
<td>Fire prevention, containment or extinguishing</td>
<td>A62C 3/00</td>
</tr>
<tr>
<td>Safety belts or body harnesses for vehicles</td>
<td>B60R 22/00</td>
</tr>
<tr>
<td>Jettisonable parts of fuselage facilitating emergency escape</td>
<td>B64C</td>
</tr>
</tbody>
</table>

**B64D 25/02**

Supports or holding means for living bodies

**Definition statement**

*This place covers:*

Restraining means for pilot's legs, head or arms in ejection seats.

**B64D 25/04**

Seat modifications

**Definition statement**

*This place covers:*

Crashworthy seats

Adapted or integrated swimming vests.
B64D 27/00
Arrangement or mounting of power plant in aircraft; Aircraft characterised thereby (attitude, flight direction, or altitude control of aircraft by jet reaction B64C)

Definition statement
This place covers:
Elastomeric joints for mounting power plant
Accessories therefor.

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

Attitude, flight direction or altitude control of aircraft by jet reaction B64C

Special rules of classification
There will be an indexing system for the following:
Hybrid power plants, i.e. aircraft with two different types of power plant; e.g. electric and gas-turbine

B64D 27/02
Aircraft characterised by the type or position of power plant (fuselages or wings adapted for mounting power plant B64C)

Definition statement
This place covers:
Particular disposition or arrangement of power plant in aircraft
Peculiar power plants.

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

Fuselages or wings adapted for mounting power plant B64C

B64D 27/04
of piston type

Definition statement
This place covers:
Structures for mounting piston type power plants in aircraft, independently of the position of the same.
**B64D 27/06**
within or attached to wing

**Definition statement**
*This place covers:*
Structures for mounting piston type power plant at the wing of the aircraft.

**B64D 27/08**
within or attached to fuselage

**Definition statement**
*This place covers:*
Structures for mounting piston type power plant at the fuselage of the aircraft.

**B64D 27/10**
of gas-turbine type (**B64D 27/16** takes precedence)

**Definition statement**
*This place covers:*
Structures for mounting turboprop type power plants in aircraft, independently of the position of the same.

**B64D 27/12**
within or attached to wing

**Definition statement**
*This place covers:*
Structures for mounting turboprop type power plants at the wing of the aircraft.

**B64D 27/14**
within or attached to fuselage

**Definition statement**
*This place covers:*
Structures for mounting turboprop type power plants at the fuselage of the aircraft.

**B64D 27/16**
of jet type

**Definition statement**
*This place covers:*
Structures for mounting turbofan type power plants in aircraft, independently of the position of the same.
**B64D 27/18**

within or attached to wing

**Definition statement**

This place covers:
Structures for mounting turbofan type power plants at the wing of the aircraft.

**B64D 27/20**

within or attached to fuselage

**Definition statement**

This place covers:
Structures for mounting turbofan type power plants at the fuselage of the aircraft.

**B64D 27/26**

Aircraft characterised by construction of power-plant mounting

**Definition statement**

This place covers:
Fail-safe attachments for mounting turbofan power plants to the supporting structure.

**Special rules of classification**

There will be an indexing scheme for the following:
Box like attachments, e.g. to the wing pylon
Engine attachments for supporting vertical loads
Engine thrust links

**B64D 29/00**

Power-plant nacelles, fairings, or cowlings (nacelles not otherwise provided for B64C)

**Definition statement**

This place covers:
Fairings
Seals
Liners.

**References**

**Limiting references**

This place does not cover:

| Aerodynamic aspects of nacelles | B64C 7/02 |
**B64D 29/02**

associated with wings (wings adapted for mounting power plant **B64C**)

**Definition statement**

*This place covers:*
Aerodynamic aspects of connection elements between engine nacelle and wing.

**References**

**Informative references**

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

<table>
<thead>
<tr>
<th>Reference</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wings adapted for mounting power plant</td>
<td><strong>B64C</strong></td>
</tr>
</tbody>
</table>

**B64D 29/04**

associated with fuselages

**Definition statement**

*This place covers:*
Aerodynamic aspects of connection elements between engine nacelle and fuselage.

**B64D 29/06**

Attaching of nacelles, fairings or cowlings

**Definition statement**

*This place covers:*
Operating mechanisms for cowlings or panels

Latches

Supports for thrust reversers.

**References**

**Informative references**

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

<table>
<thead>
<tr>
<th>Reference</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panels or cowls per se</td>
<td><strong>B64D 29/08</strong></td>
</tr>
<tr>
<td>Latches</td>
<td><strong>E05B 9/00</strong></td>
</tr>
<tr>
<td>Thrust reversers for turbine engines</td>
<td><strong>F02K 1/70</strong></td>
</tr>
</tbody>
</table>

**B64D 29/08**

Inspection panels for power plants

**Definition statement**

*This place covers:*
Panels
Cowls.

References

Limiting references

This place does not cover:

| Operating mechanisms for cowlings or panels | B64D 29/06 |

B64D 33/00

Arrangements in aircraft of power plant parts or auxiliaries not otherwise provided for

Definition statement

This place covers:

Power plant starting systems.

B64D 33/02

of combustion air intakes (air intakes for gas-turbine plants or jet-propulsion plants per se F02C 7/04; air intakes for combustion engines in general F02M 35/00)

Definition statement

This place covers:

Air intakes.

References

Informative references

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

| Air intakes for gas-turbine power plants or jet propulsion plants per se | F02C 7/04 |
| Combustion engines in general | F02M 35/00 |

Special rules of classification

There will be an indexing scheme for the following:

- Air intake with acoustic liners for noise suppression
- Air intake specially adapted for APU
- Air intakes with bird ingestion protection
- Air intakes with means for boundary layer control
- Air intakes with means for avoiding icing
- Air intakes with means to minimise infrared emissions
- Air intakes of the NACA type for any purpose; e.g. ECS or avionics
- Air intakes with particle separators
- Air intakes for jet engines
- Air intakes for piston engines
- Air intakes for supersonic aircraft
- Air intakes for turbofan engines
Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

<table>
<thead>
<tr>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>APU</td>
<td>Auxiliary Power Unit</td>
</tr>
<tr>
<td>ECS</td>
<td>Environmental Control System</td>
</tr>
</tbody>
</table>

**B64D 33/04**

of exhaust outlets or jet pipes (exhaust outlets for combustion engines in general F01N; jet pipes or nozzles for jet-propulsion plants per se F02K; plants characterised by the form or arrangement of the jet pipe or nozzle F02K (; attitude, flight direction, or altitude control by jet reaction B64C))

**Definition statement**

*This place covers:*

- Exhaust outlets
- Turbine exhaust nozzles.

**References**

**Informative references**

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

<table>
<thead>
<tr>
<th>Term</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhaust nozzles for combustion engines</td>
<td>F01N</td>
</tr>
<tr>
<td>Jet pipes or nozzles</td>
<td>F02K 1/00</td>
</tr>
</tbody>
</table>

**Special rules of classification**

There will be an indexing scheme for the following:

- Exhaussts with means to reduce the infrared emission.

**B64D 37/00**

**Arrangements in connection with fuel supply for power plant (refuelling during flight B64D 39/00)**

**Definition statement**

*This place covers:*

- Fuel supply systems
- Gauging.

**References**

**Limiting references**

*This place does not cover:*

<table>
<thead>
<tr>
<th>Term</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refuelling during flight</td>
<td>B64D 39/00</td>
</tr>
</tbody>
</table>
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Fuel tanks for vehicles | B60K 15/00 |

B64D 37/005

{Accessories not provided for in the groups B64D 37/02 - B64D 37/28}

Definition statement
This place covers:
Plugs for fuel tanks
Other accessories for fuel supply.

B64D 37/32

Safety measures not otherwise provided for, e.g. preventing explosive conditions (extinguishing or preventing fires in aircraft A62C)

Definition statement
This place covers:
Inerting systems
Fire extinguishing
Ram shock protection.

References

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

| Extinguishing or preventing fires in aircraft | A62C |

Special rules of classification
There will be an indexing scheme for the following:
Fuel tanks with provisions for reducing hydraulic ram shocks due to projectile impact.

B64D 39/00

Refuelling during flight (filling or emptying fuel tanks B64D 37/14)

Definition statement
This place covers:
Controlling the position of the refuelling boom or hose.
References

Informative references

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

| Filling or emptying tanks          | B64D 37/14 |

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

<table>
<thead>
<tr>
<th>Refuelling boom</th>
<th>rigid pipe for refuelling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refuelling house</td>
<td>flexible house for refuelling; normally rolled on a reel</td>
</tr>
</tbody>
</table>

B64D 39/02

Means for paying-in or out hose

Definition statement

This place covers:

Reels for refuelling hoses

Telescopic arrangements for refuelling booms.

B64D 39/04

Adaptations of hose construction (pipes in general F16L)

Definition statement

This place covers:

Constructional details or accessories for refuelling booms or hoses.

References

Informative references

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

| Pipes in general                      | F16L |

B64D 39/06

Connecting hose to aircraft; Disconnecting hose therefrom

Definition statement

This place covers:

Valves for refuelling booms or hoses

Connection devices for booms or hoses

Connection devices for the receiving aircraft.
B64D 41/00
Power installations for auxiliary purposes

Definition statement
This place covers:
Mounting Auxiliary Power Units (APU) in aircraft.

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

| Auxiliary Power Units (APU) | F02K |

Special rules of classification
There will be an indexing scheme for the following:
Disposition or mounting of APU in aircraft
Fuel cells used as APU.

Glossary of terms
In this place, the following terms or expressions are used with the meaning indicated:

| APU | Auxiliary Power Unit |

B64D 43/00
Arrangements or adaptations of instruments (arrangements of cameras B64D 47/08; aeronautical measuring instruments per se G01C)

Definition statement
This place covers:
Cockpit dashboards.

References
Limiting references
This place does not cover:

| Arrangement of cameras | B64D 47/08 |

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

| Aircraft instruments | G01C 23/00 |
| Head Up Displays (HUD) | G02B 27/01 |
Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

<table>
<thead>
<tr>
<th>Term</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUD</td>
<td>Head Up Display</td>
</tr>
</tbody>
</table>

**B64D 43/02**

for indicating aircraft speed or stalling conditions

**Definition statement**

This place covers:

Arrangement of Pitot tubes.

**References**

**Informative references**

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

<table>
<thead>
<tr>
<th>Topic</th>
<th>CPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flight data probes</td>
<td>G01P 13/025</td>
</tr>
</tbody>
</table>

**B64D 45/00**

Aircraft indicators or protectors not otherwise provided for (camouflage F41H 3/00)

**Definition statement**

This place covers:

Mounting and arrangements of crash recorders

Miscellaneous indicators.

**References**

**Limiting references**

This place does not cover:

<table>
<thead>
<tr>
<th>Topic</th>
<th>CPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stealth or armoured structures</td>
<td>B64D 7/00</td>
</tr>
</tbody>
</table>

**Informative references**

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

<table>
<thead>
<tr>
<th>Topic</th>
<th>CPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camouflage</td>
<td>F41H 3/00</td>
</tr>
<tr>
<td>Crash recorders casings</td>
<td>H05K 5/00</td>
</tr>
</tbody>
</table>

**Special rules of classification**

There will be an indexing scheme for the following:

Systems for avoiding bird strikes (air intakes excluded)

Mounting of crash recorders, automatic mayday signalling, flight data recording
Cabin signs; e.g. seat number or exit lights or signs
Supports in the cockpit for flight bags; e.g. supports for electronic tablets used as flight bags
Indicators for detecting or indicating a hard landing
Failure detection means, e.g. for flutter, vibration, etc.
Fire and erosion protectors.

Synonyms and Keywords
In patent documents, the following words/expressions are often used as synonyms:
  • "crash recorder" and "black box"

B64D 45/0005
{Devices specially adapted to indicate the position of a movable element of the aircraft, e.g. landing gear}

Definition statement
This place covers:
Asymmetric flap detection systems
Landing gear deployment detection systems.

B64D 45/0015
{Devices specially adapted for the protection against criminal attack, e.g. anti-hijacking systems}

Definition statement
This place covers:
Protection systems against hijacking.

Special rules of classification
There will be an indexing scheme for the following:

Security communications, e.g. for communicating emergency situations to ground traffic control or between crew members
Bomb detection systems for cabins or luggage
Blocking pilot's control and directing aircraft from the ground avoiding particular air space zones
Preventing the use of electronic equipment during flight, e.g. use of GSM's
Restraining passengers within seats or particular zones; compartmenting cabins for this purpose.
Detecting passenger or pilot behaviour by sensors, identification means or biometric data.
B64D 45/02
Lightning protectors; Static dischargers (in general H01T)

Definition statement
This place covers:
Conductive rivets
Making composite structures conductive.

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

| Lightning protectors in general | H01T |