

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
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Informative references

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

Rocket launchers	B64D 7/08
Arming or setting bomb fuzes	F42C

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:

Bombs	F42B
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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:

Retaining devices for pallets or freight containers	B64D 9/003
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B64D 1/12**Releasing****Definition statement**

This place covers:

Extractor parachutes

Ejector devices.

B64D 1/14

Absorbing landing shocks

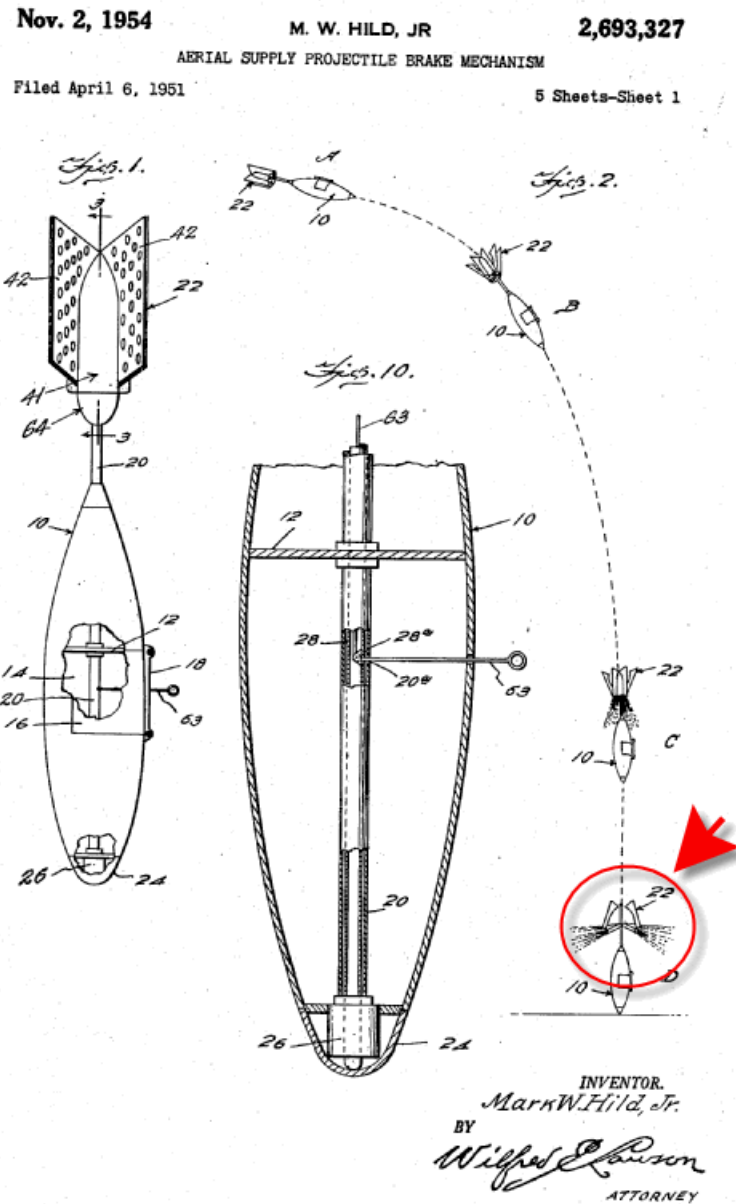
Definition statement

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
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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:

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

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
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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:

Flying units formed by separate aircraft	B64C 37/02
Space shuttles	B64G 1/14

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
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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
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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:

Power Drive Unit (PDU)	Powered rollers and drives to move containers and pallets within aircraft fuselages or cargo bays
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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
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B64D 11/0015**{Arrangements for entertainment or communications, e.g. radio, television}****Definition statement***This place covers:*

Aircraft cabin layouts for amusement or media

Displays of navigation data using TV screens

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:*

Entertainment or communication arrangements for chairs or seats in land-type vehicles	B60N 3/00
Entertainment or communication arrangements for chairs or seats in water-type vehicles	B63B 29/04
Combined instruments indicating more than one navigational value, e.g. for aircraft	G01C 23/00

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

Accessories for chairs or seats, adaptations for incorporating lamps, radio sets, bars, telephones, ventilation, heating or cooling arrangements or the like	A47C 7/72
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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:*

Configuration of chairs, chair modifications, or particular chair structure for aeronautic passengers

B64D 11/0604**{including a bed, e.g. cocoon type passenger seat modules}****Definition statement***This place covers:*

Chair unit combined with a generally horizontal surface for a reclining person and can include a canopy-type structure

- This subgroup includes additional and separate surfaces or pieces to form a bed

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:

Aircraft passenger seats convertible to a bed	B64D 11/0641
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B64D 11/0605

{including tables or desks}

Definition statement

This place covers:

Chair unit 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 trays as passenger fittings for vehicles	B60N 3/002
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B64D 11/0606

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

Definition statement

This place covers:

Chair combined with obstructions to other passengers

References

Limiting references

This place does not cover:

Class dividers	B64D 11/0023
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B64D 11/0607

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

Definition statement

This place covers:

Chair combined with appliances for a person's conditioning, muscle development, or anticlotting

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:

Hand held massaging devices	A61H 9/0021
Physical therapy devices for anti-thrombosis or anti-clotting	A61H 2209/00

Informative references

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

Stools with exercising means or having special therapeutic or ergonomic effects	A47C 9/002
Pneumatic or hydraulic massage	A61H 9/00
Massaging systems	B60N 2/976

B64D 11/0611

{with means for holding the passenger in a standing position}

Definition statement

This place covers:

Chair combined with 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
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B64D 11/0612

{specially adapted for children}

Definition statement

This place covers:

Chair modified for pre-adult 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
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B64D 11/0616**{with ejection means}****Definition statement***This place covers:*

Chair combined with a device to propel a passenger away from the chair

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

Ejecting or escaping means	B64D 25/08
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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:*

Chair combined with a device or a design to dissipate deceleration

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

Seat modification for pilots	B64D 11/0689
Vehicle seat constructed to protect the occupant from the effect of abnormal g-forces	B60N 2/42
Arrangements or fittings on vehicles for protecting or preventing injuries to occupants	B60R 21/00

B64D 11/062**{Belts or other passenger restraint means for passenger seats}****Definition statement***This place covers:*

Chair combined with a torso or limb encircling device or a device to hold a person in place

References

Informative references

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

Harnessing for pilot	B64D 25/06
Safety belts or body harnesses in general	A62B 35/00
Safety belts or body harnesses in vehicles	B60R 22/00

B64D 11/06205

{Arrangements of airbags}

Definition statement

This place covers:

Chair 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
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B64D 11/0624

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

Definition statement

This place covers:

Chair 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
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B64D 11/0626

{with individual temperature or ventilation control}

Definition statement

This place covers:

Chair combined with personal heating, cooling, or air circulation

References

Informative references

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

Heating or ventilating devices for vehicles	B60N 2/56
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B64D 11/0627

{Seats combined with storage means}

Definition statement

This place covers:

Chair combined with a cabinet or cabinet type structure

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:

Stowage devices for passengers' personal luggage	B64D 11/003
Personal storage means (e. g. luggage, magazines, etc.) or waste disposal bags	B64D 11/0636

Informative references

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

Stowing or holding appliances inside vehicle primarily intended for personal property smaller than a suitcase	B60R 7/00
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B64D 11/0636

{Personal storage means or waste disposal bags}

Definition statement

This place covers:

Chair storage for a passenger's carry-on belongings or garbage

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:

Stowage devices for passengers' personal luggage	B64D 11/003
Seats combined with storage means	B64D 11/0627

Informative references

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

Stowing or holding appliances inside vehicle primarily intended for personal property smaller than a suitcase	B60R 7/00
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B64D 11/0639

{with features for adjustment or converting of seats}

Definition statement

This place covers:

Chair having structure permitting repositioning chair portions or altering the chair configuration

References**Informative references**

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

Reclining or easy chairs	A47C 1/02
Seat or part thereof being movable, e.g. adjustable	B60N 2/02

B64D 11/06395

{characterised by the arrangement of electric motors for adjustment}

Definition statement

This place covers:

Configuration of powered devices to reposition or alter a chair or chair portion

References**Informative references**

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

Reclining or easy chairs adjustable via electric motor	A47C 1/0242
Seat or part thereof being movable, e.g. adjustable via electric motor	B60N 2/0232

B64D 11/064

{Adjustable inclination or position of seats}

Definition statement

This place covers:

Chair tilt or chair configuration

References

Informative references

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

Reclining or easy chairs	A47C 1/02
Vehicle seat or part thereof being movable, e.g. adjustable	B60N 2/02

B64D 11/0642

{Adjustable headrests}

Definition statement

This place covers:

Chair with a repositionable support for a passenger's portion above the torso

References

Informative references

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

Chairs with headrests	A47C 7/46
Seats for vehicles with headrest	B60N 2/806

B64D 11/0643

{Adjustable foot or leg rests}

Definition statement

This place covers:

Chair with a repositionable support for a passenger's lower body

References

Informative references

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

Chairs with leg or footrest	A47C 1/034 , A47C 7/506
Seats for vehicles with leg or foot rest	B60N 2/995 , B60N 3/06

B64D 11/0644

{Adjustable arm rests}

Definition statement

This place covers:

Chair with a repositionable passenger upper body extremity support

References

Informative references

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

Chairs with arm rest	A47C 7/506
Seats for vehicles with arm rest	B60N 2/763

B64D 11/0646

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

Definition statement

This place covers:

Chair 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:

Chairs with headrests	A47C 7/36
Chairs with leg or footrests	A47C 7/50
Chairs with arm rest	A47C 7/506
Seats for vehicles with arm rest	B60N 2/763
Seats for vehicles with headrest	B60N 2/803
Seats for vehicles with leg or foot rest	B60N 2/995 , B60N 3/06

B64D 11/0647

{Seats characterised by special upholstery or cushioning features}

Definition statement

This place covers:

Chair 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:

Chair of special materials	A47C 5/00
Vehicle seat with upholstery	B60N 2/70

B64D 11/0648**{Lower frame constructions}****Definition statement***This place covers:*

Chair understructure or substructure lacking design for impact

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
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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
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B64D 11/0649**{Seats characterised by special features for reducing weight}****Definition statement***This place covers:*

Chair design or materials minimizing mass

- Design lacking a frame, e.g., back plate
- Materials such as carbon fibers, aluminum, composites, etc.
- 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:*

Chair designed to be deployed during take-off and landing and stowed during flight

- 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:*

Chair with accommodations for transverse adjustments

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
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B64D 11/0696**{Means for fastening seats to floors, e.g. to floor rails}****Definition statement***This place covers:*

Structure to attach the chair to the passenger cabin walking surface

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
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B64D 11/0697**{Seats suspended from aircraft ceiling}****Definition statement***This place covers:*

Structure to attach a chair to the passenger cabin overhead surface

B64D 11/0698**{Seats suspended from aircraft walls}****Definition statement***This place covers:*

Structure to attach a chair 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:

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

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:

Conditioning fuel	B64D 37/34
Fuselage structures adapted to reduce the effects of aerodynamic or other external heating	B64C 1/38
Aircraft heat insulation	B64C 1/40
Wing constructions adapted to reduce effects of aerodynamic or other external heating	B64C 3/36

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
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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:

ECS	Environmental control system
OBOGS	On-Board Oxygen Generation System

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
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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
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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	B64F 5/20
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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:

Parachutes	B64D 17/00 , B64D 19/00
Jettisoning of fuel tanks	B64D 37/00
Protection against criminal attack	B64D 45/0015
Safety belts or body harnesses in general	A62B 35/00
Fire prevention, containment or extinguishing	A62C 3/00
Safety belts or body harnesses for vehicles	B60R 22/00

Jettisonable parts of fuselage facilitating emergency escape	B64C
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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
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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
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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
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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:

Wings adapted for mounting power plant	B64C
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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:

Panels or cowls per se	B64D 29/08
Latches	E05B 9/00
Thrust reversers for turbine engines	F02K 1/70

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
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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
- Air intakes for turboprop engines

Glossary of terms

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

APU	Auxiliary Power Unit
ECS	Environmental Control System

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:

Exhaust nozzles for combustion engines	F01N
Jet pipes or nozzles	F02K 1/00

Special rules of classification

There will be an indexing scheme for the following:

Exhausts 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:

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:

Fuel tanks for vehicles	B60K 15/00
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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
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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
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Glossary of terms

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

Refuelling boom	rigid pipe for refuelling
Refuelling house	flexible house for refuelling; normally rolled on a reel

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
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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
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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
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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
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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:

HUD	Head Up Display
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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:

Flight data probes	G01P 13/025
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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:

Stealth or armoured structures	B64D 7/00
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Informative references

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

Camouflage	F41H 3/00
Crash recorders casings	H05K 5/00

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
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