

B64D

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

Definition statement

This subclass/group 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 within this subclass

Indexing Code-codes with identical symbols starting with [L64D](#) are used for classifying additional information.

B64D 1/00

Dropping, ejecting, releasing, or receiving articles, liquids, or the like, in flight (with respect to weapon sights devices F41G takes precedence, parachutes per se B64D17/00; ejectable seats B64D25/10; ejectable capsules B64D25/12; refuelling during flight B64D39/00; launching apparatus for projecting projectiles or missiles F41F1/00, F41F7/00; rocket or torpedo launchers F41F3/00)

B64D 1/04

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

Definition statement

This subclass/group covers:
Ejector systems for missiles

Devices for separating bombs from fuselage.

References relevant to classification in this group

This subclass/group 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 subclass/group covers:
Bomb bays in fuselages

Bomb doors of bomb bays.

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 subclass/group covers:

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

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 subclass/group covers:

Extractor parachutes

Ejector devices.

B64D 1/14

Absorbing landing shocks

Definition statement

This subclass/group covers:

Rockets used as braking devices

Cushioning devices; shock absorbers, springs, etc. for absorbing landing shocks 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):

Nov. 2, 1954

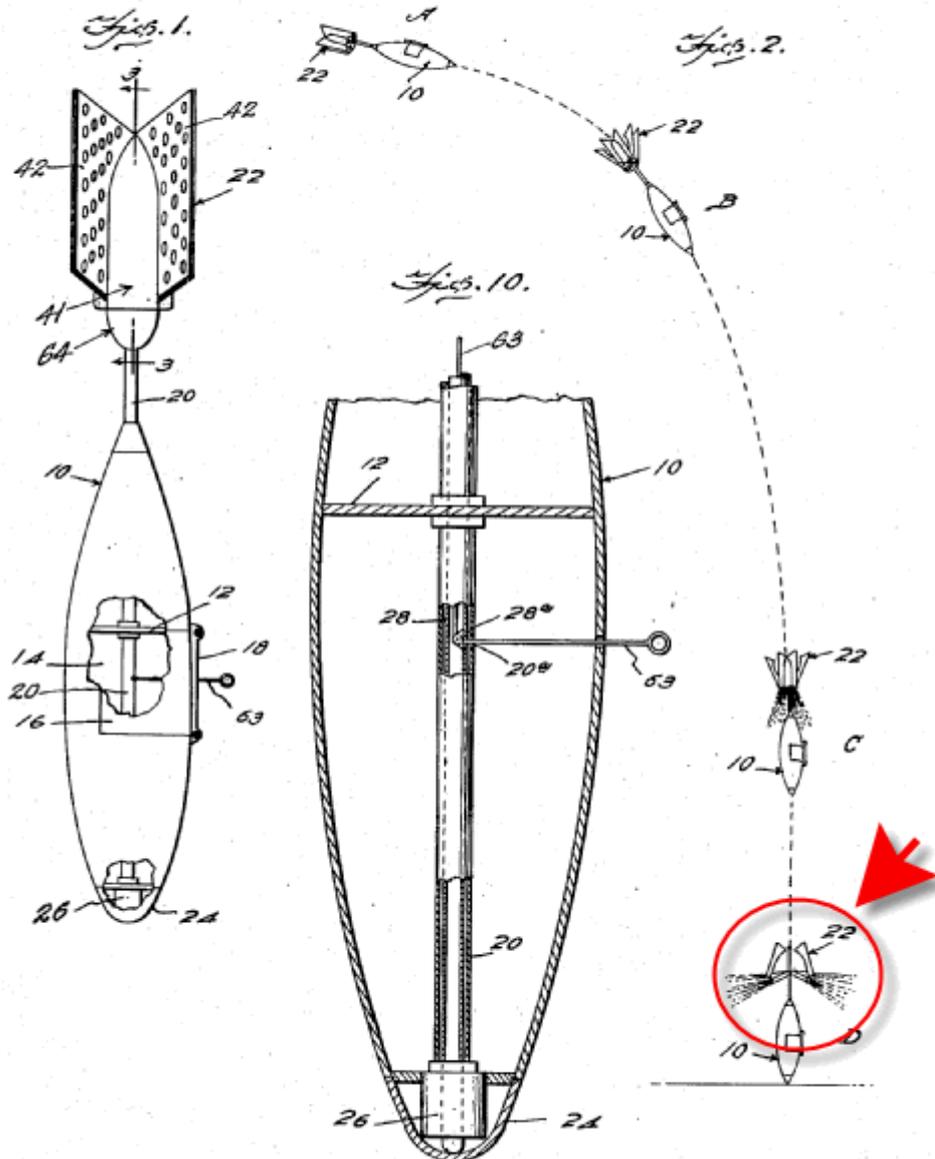
M. W. HILD, JR

2,693,327

AERIAL SUPPLY PROJECTILE BRAKE MECHANISM

Filed April 6, 1951

5 Sheets-Sheet 1



INVENTOR.
Mark W. Hild, Jr.
 BY
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B64D 1/16

Dropping or releasing powdered, liquid, or gaseous matter, e.g. for fire-fighting (jettisoning fuel B64D37/26)

Definition statement

This subclass/group covers:

Fire fighting aircraft

Water baskets hanging below helicopters.

References relevant to classification in this group

This subclass/group 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	A63C 3/00
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B64D 1/22

Taking-up articles from earth's surface

Definition statement

This subclass/group covers:

Devices adapted on aircraft for hanging loads

Helicopter devices for transporting hanging loads

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 (B64D39/00 takes precedence; ground installations for

launching or towing aircraft B64F; towing ropes per se D07B)

B64D 3/02

for towing targets (towed targets per se F41J)

Definition statement

This subclass/group covers:

Devices mounted on aircraft for towing targets.

Informative references

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

Targets as such	F41J 1/00
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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 B64C37/02)

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 B64D1/00; armaments or mountings therefor per se F41)

Definition statement

This subclass/group covers:

Stealth structures

Armoured structures.

References relevant to classification in this group

This subclass/group 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:

Camouflage	F41H 3/00
Armoured garments	F41H 1/00

B64D 7/08

**Arrangements of rocket launchers [N: or releasing means]
(rocket launchers per se, e.g. rocket pods, F41F3/06)**

Definition statement

This subclass/group covers:

Rail systems for rockets.

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 B64D17/00, B64D19/00, B64D25/00; 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 subclass/group covers:

Loadings systems and methods

Cargo handling.

References relevant to classification in this group

This subclass/group 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
Determining centre of gravity in aircraft	G01M 1/125
Weighing aircraft	G01G 19/07

Special rules of classification within this group

There will be an indexing scheme for:

Powered cargo rollers (PDU)

Glossary of terms

In this subclass/group, 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

[N: Flying suits (helmets in general A42B3/00; breathing helmets A62B18/00)]

Definition statement

This subclass/group covers:

Garments for pilots, e.g. g-suits, trousers or bladders

Helmets

Oxygen supply, e.g. valves, pilots' masks or controllers.

Informative references

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

Breathing helmets	A62B 18/00
Respiratory or breathing apparatus	A62B 7/00
Helmets in general	A42B 3/00
High-altitude pressure suits	A62B 17/008

Special rules of classification within this group

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 subclass/group covers:

Cabin layouts

Passengers' oxygen masks.

Special rules of classification within this group

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

[N: Devices specially adapted for food or beverage distribution services]

Definition statement

This subclass/group covers:

Food and beverage distribution systems

Interaction between trolley and cabin.

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 11/06

Arrangements or adaptations of seats (seat constructions for emergency purposes B64D25/04; [N: seat accessories B60N3/00])

Definition statement

This subclass/group covers:

Passenger seats

Informative references

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

Seats for vehicles	B60N 2/00
Seat accessories	B60N 3/00
Seat modifications; e.g. ejection seats	B64D 25/04

Special rules of classification within this group

There will be an indexing scheme for:

- Seat adjustment mechanisms, e.g. inclining or positioning mechanisms for seats
- Seats with airbags, integration in seat structure
- Seat arm rests
- Seat arrangements, seats layouts within cabin
- Seats convertible into beds
- Seats adapted or with arrangements for children
- Seats with crash energy absorbing means
- Rest berths for crew members
- Passenger seats with ejection means
- Seats with electric motors

- Seats with connectors for electric devices; e.g. for laptops
- Seats with means for exercising during flight
- Seat floor attachments
- Seat foot rests
- Seats with means for individual control of temperature
- Lightweight seats, e.g. simplified seat structures to minimise weight
- Cocoon type seats
- Seats including storage for luggage or waste
- Seats with privacy shells, screens, separators, etc.
- Seats with restraints for passenger, e.g. seat belts, headrests
- Seats with storage means for safety devices
- Bed units at the ceiling of the cabin for passengers
- Devices holding passengers in standing position
- Seat with means for attaching stretchers or arrangements for disabled passengers
- Folding tables, cup holders or trays for seats
- Upholstery for seats
- Seats with ventilation means

B64D 13/00

Arrangements or adaptations of air-treatment apparatus for aircraft crew or passenger, or freight space; [N: or structural parts of the aircraft] (treatment rooms with artificial climate for medical purposes A61G10/02; respiratory apparatus in general A62B; for vehicles in general B60H)

Definition statement

This subclass/group covers:

Accessories for air-conditioning systems; e.g. valves, nozzles, air mixing chambers.

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 within this group

There will be an indexing scheme for:

Air nozzles for passenger ventilation.

B64D 13/006

[N: the air being used to cool structural parts of the aircraft]

Definition statement

This subclass/group covers:

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

Informative references

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

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
Conditioning fuel	B64D 37/34

B64D 13/02

the air being pressurised

Definition statement

This subclass/group covers:

Cabin pressurising valves

Security devices.

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 subclass/group covers:

Cabin pressurising systems.

B64D 13/06

the air being conditioned (pressurising B64D13/02)

Definition statement

This subclass/group covers:

Air conditioning systems; e.g. air cycle machines.

Informative references

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

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

Special rules of classification within this group

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 subclass/group, 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 subclass/group covers:

Systems for cooling or heating cabin air, e.g. using heat from radiator.

Heaters

Cabin ventilation systems.

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; [N:Ground-installations for de-icing aircraft B64F5/0036])

B64D 17/00

Parachutes (non canopied parachutes B64D19/00)

B64D 19/00

Non-canopied parachutes

B64D 21/00

Testing of parachutes

B64D 23/00

Training of parachutists

B64D 25/00

Emergency apparatus or devices, not otherwise provided for (parachutes B64D17/00, B64D19/00; jettisoning of fuel tanks or fuel per se B64D37/00; [N: specially adapted for protection against criminal attack, e.g. anti-hijacking systems B64D45/0015]; safety belts or body harnesses in general A62B35/00; safety belts or body harnesses for land vehicles B60R22/00; jettisonable parts of fuselage facilitating emergency escape B64C)

Definition statement

This subclass/group covers:

Fire extinguishing

Safety airbags.

Informative references

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

Fire prevention, containment or extinguishing	A62C 3/00
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
Safety belts or body harnesses for vehicles	B60R 22/00
Jettisonable parts of fuselage facilitating emergency escape	B64C

B64D 25/02

Supports or holding means for living bodies

Definition statement

This subclass/group covers:

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

B64D 25/04

Seat modifications

Definition statement

This subclass/group 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 subclass/group covers:

Elastomeric joints for mounting power plant

Accessories therefor.

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 within this group

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 subclass/group covers:

Particular disposition or arrangement of power plant in aircraft

Peculiar power plants.

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 subclass/group 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 subclass/group 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 subclass/group covers:

Structures for mounting piston type power plant at the fuselage of the aircraft.

B64D 27/10

of gas-turbine type (B64D27/16 takes precedence)

Definition statement

This subclass/group 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 subclass/group 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 subclass/group covers:

Structures for mounting turboprop type power plants at the fuselage of the aircraft.

B64D 27/16

of jet type

Definition statement

This subclass/group 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 subclass/group 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 subclass/group 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 subclass/group covers:

Fail-safe attachments for mounting turbofan power plants to the supporting structure.

Special rules of classification within this group

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 subclass/group covers:

Fairings

Seals

Liners.

References relevant to classification in this group

This subclass/group 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 subclass/group covers:

Aerodynamic aspects of connection elements between engine nacelle and wing.

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 subclass/group covers:

Aerodynamic aspects of connection elements between engine nacelle and fuselage.

B64D 29/06

Attaching of nacelles, fairings or cowlings

Definition statement

This subclass/group covers:

Operating mechanisms for cowlings or panels

Latches

Supports for thrust reversers.

Informative references

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

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

B64D 29/08

Inspection panels for power plants

Definition statement

This subclass/group covers:

Panels

Cowls.

References relevant to classification in this group

This subclass/group does not cover:

Operating mechanisms for cowlings or panels	B64D 29/06
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B64D 31/00

Power plant control; Arrangement thereof (flying controls B64C) [N: F02 takes precedence]

B64D 33/00

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

Definition statement

This subclass/group covers:

Power plant starting systems.

B64D 33/02

of combustion air intakes (air intakes for gas-turbine plants or jet-propulsion plants per se F02C7/04; air intakes for combustion engines in general F02M35/00)

Definition statement

This subclass/group covers:

Air intakes.

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 within this group

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 subclass/group, 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) [N: attitude, flight direction, or altitude control by jet reaction B64C]

Definition statement

This subclass/group covers:

Exhaust outlets

Turbine exhaust nozzles.

Informative references

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

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

Special rules of classification within this group

There will be an indexing scheme for the following:

Exhausts with means to reduce the infrared emission.

B64D 35/00

Transmitting power from power plant to propellers or rotors;
Arrangements of transmissions (propellers or rotors per se,
helicopter transmissions B64C)

B64D 37/00

Arrangements in connection with fuel supply for power plant
(refuelling during flight B64D39/00)

Definition statement

This subclass/group covers:

Fuel supply systems

Gauging.

References relevant to classification in this group

This subclass/group 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

[N: Accessories not provided for in the groups B64D37/02 to
B64D37/28]

Definition statement

This subclass/group 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 subclass/group covers:

Inerting systems

Fire extinguishing

Ram shock protection.

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 within this group

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 B64D37/14)

Definition statement

This subclass/group covers:

Controlling the position of the refuelling boom or hose.

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 subclass/group, 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 subclass/group covers:

Reels for refuelling hoses

Telescopic arrangements for refuelling booms.

B64D 39/04

Adaptations of hose construction (pipes in general F16L)

Definition statement

This subclass/group covers:

Constructional details or accessories for refuelling booms or hoses.

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 subclass/group 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 subclass/group covers:

Mounting Auxiliary Power Units (APU) in aircraft.

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 within this group

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 subclass/group, 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 B64D47/08; aeronautical measuring instruments per se G01C)

Definition statement

This subclass/group covers:

Cockpit dashboards.

References relevant to classification in this group

This subclass/group 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 subclass/group, 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 subclass/group covers:
Arrangement of Pitot tubes.

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 F41H3/00)

Definition statement

This subclass/group covers:
Mounting and arrangements of crash recorders

Miscellaneous indicators.

References relevant to classification in this group

This subclass/group 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:

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

Special rules of classification within this group

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 expressions/words "crash recorder" and "black box" are often used as synonyms.

B64D 45/0005

[N: Devices specially adapted to indicate the position of a movable element of the aircraft, e.g. landing gear]

Definition statement

This subclass/group covers:
Asymmetric flap detection systems

Landing gear deployment detection systems.

B64D 45/0015

[N: Devices specially adapted for the protection against criminal attack, e.g. anti-hijacking systems]

Definition statement

This subclass/group covers:
Protection systems against hijacking.

Special rules of classification within this group

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 subclass/group covers:
Conductive rivets

Making composite structures conductive.

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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B64D 47/00

Equipment not otherwise provided for