

**CPC****COOPERATIVE PATENT CLASSIFICATION****B64D****EQUIPMENT FOR FITTING IN OR TO AIRCRAFT ; FLYING SUITS ;  
PARACHUTES ; ARRANGEMENTS OR MOUNTING OF  
POWERPLANTS OR PROPULSION TRANSMISSIONS****WARNING**

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[B64D 15/18](#) covered by [B64D 15/16](#) [B64D 25/102](#) covered by [B64D 25/10](#) [B64D 25/105](#) covered by [B64D 25/10](#) [B64D 25/108](#) covered by [B64D 25/10](#) [B64D 25/11](#) covered by [B64D 25/10](#) [B64D 25/112](#) covered by [B64D 25/10](#) [B64D 25/115](#) covered by [B64D 25/10](#) [B64D 25/118](#) covered by [B64D 25/10](#)

**Guidance heading:****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 [B64D 17/00](#) ; ejectable seats [B64D 25/10](#) ; ejectable capsules [B64D 25/12](#) ; refuelling during flight [B64D 39/00](#) ; launching apparatus for projecting projectiles or missiles [F41F 1/00](#) , [F41F 7/00](#) ; rocket or torpedo launchers [F41F 3/00](#) )**

- B64D 1/02 . Dropping, ejecting, or releasing articles ( jettisonable fuel reservoirs [B64D 37/12](#) )
- B64D 1/04 . . the articles being explosive, e.g. bombs ( arming or setting bomb fuzes [F42C](#) )
- B64D 1/06 . . . Bomb releasing ; Bombs doors
- B64D 1/08 . . the articles being load-carrying devices
- B64D 1/10 . . . Stowage arrangements for the devices in aircraft
- B64D 1/12 . . . Releasing
- B64D 1/14 . . . Absorbing landing shocks
- B64D 1/16 . Dropping or releasing powdered, liquid, or gaseous matter, e.g. for fire-fighting ( jettisoning fuel [B64D 37/26](#) )
- B64D 1/18 . . by spraying, e.g. insecticides ( spraying apparatus per se [B05B](#) )
- B64D 1/20 . . for sky-writing
- B64D 1/22 . Taking-up articles from earth`s surface

**B64D 3/00**

**Aircraft adaptations to facilitate towing or being towed ( [B64D 39/00](#) 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](#) )

**B64D 5/00**

**Aircraft transported by aircraft, e.g. for release or reberthing during flight ( flying units formed by separate aircraft [B64C 37/02](#) )**

<b>B64D 7/00</b>	<b>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 <a href="#">B64D 1/00</a> ; armaments or mountings therefor per se <a href="#">F41</a> )</b>
B64D 7/02	. the armaments being firearms
B64D 7/04	. . fixedly mounted
B64D 7/06	. . movably mounted
B64D 7/08	. Arrangements of rocket launchers { or releasing means } ( rocket launchers per se, e.g. rocket pods, <a href="#">F41F 3/06</a> )
<b>B64D 9/00</b>	<b>Equipment for handling freight ; Equipment for facilitating passenger embarkation or the like ( emergency equipment 17/00, 19/00, 25/00; structures integral with fuselage to facilitate loading, fuselage floors specially adapted for freight, steps mounted on and retractable within aircraft <a href="#">B64C</a> ; ground installations <a href="#">B64F</a> )</b>
B64D 9/003	. { Devices for retaining pallets or freight containers ( securing freight containers on vehicles <a href="#">B60P 7/00</a> ) }
<b>B64D 10/00</b>	{ Flying suits ( helmets in general <a href="#">A42B 3/00</a> ; breathing helmets <a href="#">A62B 18/00</a> ) }
<b>B64D 11/00</b>	<b>Passenger or crew accomodation ; Flight-deck installations not otherwise provided for</b>
B64D 11/0007	. { Devices specially adapted for food or beverage distribution services }
B64D 11/0015	. { Arrangements for entertainment or communications, e.g. radio, television }
B64D 11/0023	. { Movable or removable cabin dividers, e.g. for class separation ( bulkheads <a href="#">B64C 1/10</a> ) }
B64D 11/003	. { Stowage devices for passengers` personal luggage }
B64D 11/02	. Toilet fittings ( of general application <a href="#">A47K</a> )
B64D 11/04	. Galleys
B64D 11/06	. Arrangements or adaptations of seats ( seat constructions for emergency purposes <a href="#">B64D 25/04</a> ; { seat accessories <a href="#">B60N 3/00</a> } )
B64D 11/0689	. . { specially adapted for pilots }
B64D 11/0693	. . { Width modification of seat assemblies, e.g. for class modification }
B64D 11/0696	. . { Means for fastening seats to floors, e.g. to floor rails }
<b>B64D 13/00</b>	<b>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 <a href="#">A61G 10/02</a> ; respiratory apparatus in general <a href="#">A62B</a> ; for for vehicles in general <a href="#">B60H</a> )</b>
B64D 13/006	. { the air being used to cool structural parts of the aircraft }

- B64D 13/02 . the air being pressurised
- B64D 13/04 .. Automatic control of pressure
- B64D 13/06 . the air being conditioned ( [pressurising B64D 13/02](#) )
- B64D 13/08 .. the air being heated or cooled

**B64D 15/00** **De-icing or preventing icing on exterior surfaces of aircraft** ( [motor vehicles specially adapted for carrying de-icing equipment B60P](#) ; { [Ground-installations for de-icing aircraft B64F 5/0036](#) } )

- B64D 15/02 . by ducted hot gas or liquid
- B64D 15/04 .. Hot gas application
- B64D 15/06 .. Liquid application ( [in general B05](#) )
- B64D 15/08 ... exuded from surface
- B64D 15/10 ... sprayed over surface
- B64D 15/12 . by electric heating ( [electric heating elements in general H05B](#) )
- B64D 15/14 .. controlled cyclically along length of surface
- B64D 15/16 . by mechanical means
- B64D 15/163 .. { [using electro-impulsive devices](#) }
- B64D 15/166 .. { [using pneumatic boots](#) }
- B64D 15/20 . Means for detecting icing or initiating de-icing
- B64D 15/22 .. Automatic initiation by icing detector

**B64D 17/00** **Parachutes** ( [non canopied parachutes B64D 19/00](#) )

- B64D 17/02 . Canopy arrangement or construction

**NOTE**

[B64D 17/025](#) [takes precedence over B64D 17/04 - B64D 17/18](#)

- B64D 17/025 .. { [for gliding chutes](#) }
- B64D 17/04 .. formed with two or more canopies arranged about a common axis
- B64D 17/06 .. formed with two or more canopies arranged in a cluster
- B64D 17/08 .. Secondary or shock-absorbing canopies attached to load line
- B64D 17/10 .. Ribbon construction or the like
- B64D 17/12 .. constructed to provide variable or non-uniform porosity over area of canopy
- B64D 17/14 .. with skirt or air-deflecting panels
- B64D 17/16 ... secured to hem of main canopy
- B64D 17/18 .. Vent arrangement or construction
- B64D 17/20 ... variable in area
- B64D 17/22 . Load suspension

- B64D 17/24 .. Rigging lines
- B64D 17/26 ... attached to hem of canopy
- B64D 17/28 ... attached to apex of canopy
- B64D 17/30 .. Harnesses ( [harnesses per se A62B](#) )
- B64D 17/32 ... Construction of quick-release box
- B64D 17/34 .. adapted to control direction or rate of descent
- B64D 17/343 ... { [by reefing means](#) }
- B64D 17/346 ... { [by anti-squid lines](#) }
- B64D 17/36 .. incorporating friction devices or frangible connections to reduce shock loading of canopy { ( [B64D 17/343](#) , [B64D 17/346](#) take precedence ) }
- B64D 17/38 .. Releasable fastening devices between parachute and load or pack
- B64D 17/383 ... { [Cargo release hooks](#) }
- B64D 17/386 ... { [Devices adapted to cut lines or straps](#) }
- B64D 17/40 . Packs
- B64D 17/42 .. rigid
- B64D 17/44 ... forming part of load
- B64D 17/46 .. Closing means
- B64D 17/48 .. with separate pack for extractor of auxiliary parachute
- B64D 17/50 .. formed with separate compartments for main canopy, rigging lines, or auxiliary parachute
- B64D 17/52 .. Opening, e.g. manual
- B64D 17/54 ... automatic
- B64D 17/56 .... responsive to barometric pressure
- B64D 17/58 .... responsive to time-delay mechanism
- B64D 17/60 .... by static line
- B64D 17/62 . Deployment
- B64D 17/64 .. by extractor parachute
- B64D 17/66 ... attached to hem of main canopy
- B64D 17/68 ... attached to apex of main canopy
- B64D 17/70 .. by springs
- B64D 17/72 .. by explosive or inflatable means
- B64D 17/725 ... { [by explosive means](#) }
- B64D 17/74 .. Sequential deployment of a plurality of canopies
- B64D 17/76 .. facilitated by method of folding or packing
- B64D 17/78 . in association with other load-retarding apparatus
- B64D 17/80 . in association with aircraft, e.g. for braking thereof
- B64D 19/00 Non-canopied parachutes**
- B64D 19/02 . Rotary-wing 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 [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](#) )**

[B64D 25/02](#)                      .    Supports or holding means for living bodies

[B64D 25/04](#)                      . .    Seat modifications

[B64D 25/06](#)                      . .    Harnessing

[B64D 25/08](#)                      .    Ejecting or escaping means ( [escape apertures \[B64C\]\(#\)](#) )

[B64D 25/10](#)                      . .    Ejector seats

[B64D 25/12](#)                      . .    Ejectable capsules

[B64D 25/14](#)                      . .    Inflatable escape chutes

[B64D 25/16](#)                      . .    Dinghy stowage

[B64D 25/18](#)                      . .    Flotation gear ( [aircraft alighting gear \[B64C\]\(#\)](#) )

[B64D 25/20](#)                      . .    Releasing of crash position indicators

**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](#) )**

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

[B64D 27/023](#)                      . .    { [of rocket type e.g. for assisting taking-off or braking](#) }

[B64D 27/04](#)                      . .    of piston type

[B64D 27/06](#)                      . . .    within or attached to wing

[B64D 27/08](#)                      . . .    within or attached to fuselage

[B64D 27/10](#)                      . .    of gas-turbine type ( [B64D 27/16 takes precedence](#) )

[B64D 27/12](#)                      . . .    within or attached to wing

[B64D 27/14](#)                      . . .    within or attached to fuselage

[B64D 27/16](#)                      . .    of jet type

[B64D 27/18](#)                      . . .    within or attached to wing

[B64D 27/20](#)                      . . .    within or attached to fuselage

[B64D 27/22](#)                      . .    using atomic energy

[B64D 27/24](#)                      . .    using steam, electricity, or spring force ( [B64D 27/16 takes precedence](#) )

[B64D 27/26](#)                      .    Aircraft characterised by construction of power-plant mounting

**B64D 29/00**                      **Power-plant nacelles, fairings, or cowlings ( [nacelles not otherwise provided for \[B64C\]\(#\)](#) )**

- B64D 29/02 . associated with wings ( wings adapted for mounting power plant [B64C](#) )
- B64D 29/04 . associated with fuselages
- B64D 29/06 . Attaching of nacelles, fairings or cowlings
- B64D 29/08 . Inspection panels for power plants
- B64D 31/00** **Power plant control ; Arrangement thereof** ( flying controls [B64C](#) ) { [F02](#) takes precedence }
- B64D 31/02 . Initiating means
- B64D 31/04 . . . actuated personally
- B64D 31/06 . . . actuated automatically
- B64D 31/08 . . . for keeping cruising speed constant ( conjoint control of power plant and propeller [B64C](#) )
- B64D 31/10 . . . for preventing asymmetric thrust upon failure of one power plant
- B64D 31/12 . . . for equalising or synchronising power plants
- B64D 31/14 . Transmitting means between initiating means and power plants
- B64D 33/00** **Arrangements in aircraft of power plant parts or auxiliaries not otherwise provided for**
- 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](#) )
- 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](#) }
- B64D 33/06 . . Silencing exhaust or propulsion jets ( ground installations [B64F](#) )
- B64D 33/08 . of power plant cooling systems ( cooling of internal-combustion engines per se [F01P](#) ; cooling of gas-turbine plants or jet-propulsion plants per se [F02C](#) , K )
- B64D 33/10 . . Radiator arrangement
- B64D 33/12 . . . of retractable type
- B64D 35/00** **Transmitting power from power plant to propellers or rotors ; Arrangements of transmissions** ( propellers or rotors per se, helicopter transmissions [B64C](#) )
- B64D 35/02 . characterised by the type of power plant
- B64D 35/04 . characterised by the transmission driving a plurality of propellers or rotors
- B64D 35/06 . . the propellers or rotors being counter-rotating
- B64D 35/08 . characterised by the transmission being driven by a plurality of power plants
- B64D 37/00** **Arrangements in connection with fuel supply for power plant** ( refuelling during flight

B64D 39/00 )

- B64D 37/005 . { Accessories not provided for in the groups [B64D 37/02](#) to [B64D 37/28](#) }
- B64D 37/02 . Tanks ( tanks constructed integrally with aircraft wings [B64C](#) ; shape or construction of tanks per se [B65D](#) )
- B64D 37/04 . . Arrangement thereof in or on aircraft
- B64D 37/06 . . Constructional adaptations thereof
- B64D 37/08 . . . Internal partitioning
- B64D 37/10 . . . to facilitate fuel pressurisation
- B64D 37/12 . . . jettisonable
- B64D 37/14 . . Filling or emptying ( transferring fuels to adjust aircraft trim [B64C](#) )
- B64D 37/16 . . . Filling systems ( ground installations for fuelling aircraft [B64E](#) )
- B64D 37/18 . . . . Conditioning fuel during filling
- B64D 37/20 . . . Emptying systems
- B64D 37/22 . . . . facilitating emptying in any position of tank
- B64D 37/24 . . . . using gas pressure
- B64D 37/26 . . . . Jettisoning of fuel
- B64D 37/28 . . . . Control thereof
- B64D 37/30 . Fuel systems for specific fuels
- B64D 37/32 . Safety measures not otherwise provided for, e.g. preventing explosive conditions ( extinguishing or preventing fires in aircraft [A62C](#) )
- B64D 37/34 . Conditioning fuel, e.g. heating ( during filling [B64D 37/18](#) )
- B64D 39/00      Refuelling during flight ( filling or emptying fuel tanks [B64D 37/14](#) )**
- B64D 39/02 . Means for paying-in or out hose
- B64D 39/04 . Adaptations of hose construction ( pipes in general [F16L](#) )
- B64D 39/06 . Connecting hose to aircraft ; Disconnecting hose therefrom
- B64D 41/00      Power installations for auxiliary purposes**
- B64D 41/007 . { Ram air turbines }
- B64D 43/00      Arrangements or adaptations of instruments ( arrangements of cameras [47/08](#); aeronautical measuring instruments per se [G01C](#) )**
- B64D 43/02 . for indicating aircraft speed or stalling conditions
- B64D 45/00      Aircraft indicators or protectors not otherwise provided for ( camouflage [F41H 3/00](#) )**

- B64D 45/0005 . { Devices specially adapted to indicate the position of a movable element of the aircraft, e.g. landing gear }
- B64D 45/0015 . { Devices specially adapted for the protection against criminal attack, e.g. anti-hijacking systems }
- B64D 45/02 . Lightning protectors ; Static dischargers ( in general [H01T](#) )
- B64D 45/04 . Landing aids ; Safety measures to prevent collision with earth`s surface
- B64D 45/06 . . mechanical
- B64D 45/08 . . optical

#### **B64D 47/00      Equipment not otherwise provided for**

- B64D 47/02 . Arrangements or adaptations of signal or lighting devices
- B64D 47/04 . . the lighting devices being primarily intended to illuminate the way ahead
- B64D 47/06 . . for indicating aircraft presence
- B64D 47/08 . Arrangements of cameras

#### **Guidance heading:**

- B64D 2009/00      Equipment for handling freight ; Equipment for facilitating passenger embarkation or the like ( emergency equipment 17/00, 19/00, 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](#) )**
- B64D 2009/006 . Rollers or drives for pallets of freight containers ; e.g. PDU
- B64D 2010/00      { Flying suits ( helmets in general [A42B 3/00](#) ; breathing helmets [A62B 18/00](#) ) }**
- B64D 2010/002 . Anti-g suits or garments
- B64D 2010/005 . High altitude suits or garments, e.g. partial or total pressure
- B64D 2010/007 . Suits with cooling or heating means
- B64D 2011/00      Passenger or crew accommodation ; Flight-deck installations not otherwise provided for**
- B64D 2011/0038 . Illumination systems for cabins as a whole
- B64D 2011/0046 . Modular or preassembled units for creating cabin interior structures
- B64D 2011/0053 . Cabin passenger reading lights
- B64D 2011/0061 . Windows displaying outside view, artificially generated



- B64D 2011/0069 . Rest berths, beds or the like
- B64D 2011/0076 . . for crew members, e.g. for sleeping during flight
- B64D 2011/0084 . . Bed units for passengers attached to the ceiling of the fuselage
- B64D 2011/0092 . . Arrangements for mounting stretchers in aircraft cabins
  
- B64D 2011/06 . Arrangements or adaptations of seats ( [seat constructions for emergency purposes B64D 25/04](#) ; { [seat accessories B60N 3/00](#) } )
- B64D 2011/0603 . . Details of seats
- B64D 2011/0606 . . . with inclination or position adjusting mechanisms
- B64D 2011/061 . . . with airbag storages
- B64D 2011/0613 . . . with arm rests
- B64D 2011/0617 . . . arranged for providing alternative seat dispositions, e.g. angled
- B64D 2011/062 . . . convertible into beds
- B64D 2011/0624 . . . adapted for children
- B64D 2011/0627 . . . with energy absorbing means
- B64D 2011/0631 . . . with ejection means
- B64D 2011/0634 . . . making use of electric motors
- B64D 2011/0637 . . . with internet connection, earphone jacks, or electric supply sockets
- B64D 2011/0641 . . . Seats with means for exercising during travel, e.g. against congestion
- B64D 2011/0644 . . . with floor attachments
- B64D 2011/0648 . . . with adjustable foot or leg rests
- B64D 2011/0651 . . . with individual temperature controls
- B64D 2011/0655 . . . designed for facilitating manufacturing or for reducing weight
- B64D 2011/0658 . . . including a bed and entertainment equipments, e.g. cocoon type passenger seat modules
- B64D 2011/0662 . . . with personal storage means or waste disposal bags
- B64D 2011/0665 . . . with privacy shells, screens, separators or the like
- B64D 2011/0668 . . . with belts, or other passenger restraintment, or with headrests
- B64D 2011/0672 . . . with storage means for life vests, oxygen masks or parachutes
- B64D 2011/0675 . . . with means for holding the passenger in a standing position
- B64D 2011/0679 . . . with foldable tables, trays or cup holders
- B64D 2011/0682 . . . with upholstery or cushioning
- B64D 2011/0686 . . . with ventilation means
  
- B64D 2013/00 **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](#) )**
  
- B64D 2013/003 . Cabin ventilation nozzles
  
- B64D 2013/06 . the air being conditioned ( [pressurising B64D 13/02](#) )
- B64D 2013/0603 . . Environmental Control Systems
- B64D 2013/0607 . . . providing hot air or liquid for deicing aircraft parts, e.g. aerodynamic surfaces or

	windows
B64D 2013/0611	... combined with auxiliary power units (APU's)
B64D 2013/0614	... with subsystems for cooling avionics
B64D 2013/0618	... with arrangements for reducing or managing bleed air, using another air source, e.g. ram air
B64D 2013/0622	... used in combination with boundary layer control systems
B64D 2013/0625	... comprising means for distribution effusion of conditioned air in the cabin
B64D 2013/0629	... with subsystems for cooling food, catering or special loads
B64D 2013/0633	... including chemical reaction-based thermal management systems
B64D 2013/0637	... with CO2 removers
B64D 2013/064	... comprising more than one system, e.g. dual systems
B64D 2013/0644	... including electric motors or generators
B64D 2013/0648	... with energy recovery means, e.g. using turbines
B64D 2013/0651	... comprising filters, e.g. dust filters
B64D 2013/0655	... with zone or personal climate controls
B64D 2013/0659	... comprising provisions for cooling fuel systems
B64D 2013/0662	... with humidity control
B64D 2013/0666	... with means for preventing icing within the ECS components
B64D 2013/067	... with air ionizers
B64D 2013/0674	... comprising liquid subsystems
B64D 2013/0677	... comprising on board oxygen generator systems
B64D 2013/0681	... with oxygen control
B64D 2013/0685	... with ozone control
B64D 2013/0688	... with means for recirculating cabin air
B64D 2013/0692	... with special provisions against smoke from cigarettes
B64D 2013/0696	... with provisions for starting power plants
<b>B64D 2027/00</b>	<b>Arrangement or mounting of power plant in aircraft ; Aircraft characterised thereby ( attitude, flight direction, or altitude control of aircraft by jet reaction <a href="#">B64C</a> )</b>
B64D 2027/005	. Aircraft with an unducted turbofan comprising contra-rotating rotors, e.g. contra-rotating open rotors [CROR]
B64D 2027/02	. Aircraft characterised by the type or position of power plant ( fuselages or wings adapted for mounting power plant <a href="#">B64C</a> )
B64D 2027/026	.. comprising different types of power plants, e.g. combination of an electric motor and a gas-turbines
B64D 2027/26	. Aircraft characterised by construction of power-plant mounting
B64D 2027/262	.. Engine support arrangements or elements
B64D 2027/264	... comprising box like supporting frames
B64D 2027/266	... comprising suspension arrangements for supporting vertical loads
B64D 2027/268	... comprising thrust links
<b>B64D 2033/00</b>	<b>Arrangements in aircraft of power plant parts or auxiliaries not otherwise provided for</b>

- B64D 2033/02 . 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](#) )
- B64D 2033/0206 . . comprising noise reduction means, e.g. acoustic liners
- B64D 2033/0213 . . specially adapted for auxiliary power units (APU's)
- B64D 2033/022 . . comprising bird or foreign object protections
- B64D 2033/0226 . . comprising boundary layer control means
- B64D 2033/0233 . . comprising de-icing means
- B64D 2033/024 . . comprising cooling means
- B64D 2033/0246 . . comprising particle separators
- B64D 2033/0253 . . specially adapted for particular type of aircraft
- B64D 2033/026 . . . . for supersonic or hypersonic aircraft
- B64D 2033/0266 . . specially adapted for particular type of power plants
- B64D 2033/0273 . . . . for jet engines
- B64D 2033/028 . . . . for piston engines
- B64D 2033/0286 . . . . for turbofan engines
- B64D 2033/0293 . . . . for turboprop engines
- B64D 2033/04 . 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](#) }
- B64D 2033/045 . . comprising infrared suppressors
- B64D 2037/00 Arrangements in connection with fuel supply for power plant ( [refuelling during flight B64D 39/00](#) )**
- B64D 2037/32 . Safety measures not otherwise provided for, e.g. preventing explosive conditions ( [extinguishing or preventing fires in aircraft A62C](#) )
- B64D 2037/325 . . Fuel tanks with provisions for reduction hydraulic ram shocks due to projectile impacts
- B64D 2041/00 Power installations for auxiliary purposes**
- B64D 2041/002 . Mounting arrangements for auxiliary power units (APU's)
- B64D 2041/005 . Fuel cells
- B64D 2045/00 Aircraft indicators or protectors not otherwise provided for ( [camouflage F41H 3/00](#) )**
- B64D 2045/0005 . { [Devices specially adapted to indicate the position of a movable element of the aircraft, e.g. landing gear](#) }
- B64D 2045/001 . . for indicating symmetry of flaps deflection
- B64D 2045/0015 . { [Devices specially adapted for the protection against criminal attack, e.g. anti-hijacking systems](#) }
- B64D 2045/002 . . by disabling or restraining attackers

- B64D 2045/0025 . . . by spraying gases in cabins ,or by shooting darts with anesthetic effects
- B64D 2045/003 . . by monitoring cabins
- B64D 2045/0035 . . . using cameras
- B64D 2045/004 . . . detecting passenger or pilot behaviors by sensors, e.g. biometrics
- B64D 2045/0045 . . by communicating emergency situations to ground control, or between crew members
- B64D 2045/005 . . by protecting cabin or luggage from bombs
- B64D 2045/0055 . . by overriding pilot's controls, or by directing aircraft from ground control to avoid certain paths or zones
- B64D 2045/006 . . by avoiding the use of electronic equipment during flight, e.g. of mobile phones or laptops
- B64D 2045/0065 . Black boxes, devices automatically broadcasting distress signals
- B64D 2045/007 . Indicators or signs in the cabin, e.g. exit signs or seat numbering
- B64D 2045/0075 . Flight bags, including electronic type flight bags ; Supports therefor in the cockpit
- B64D 2045/008 . Devices for detecting or indicating hard landing
- B64D 2045/0085 . Devices for aircraft health monitoring, e.g. monitoring flutter or vibration
- B64D 2045/009 . Fire detection or protection ; Erosion protection, e.g. from airborne particles
- B64D 2045/0095 . Devices specially adapted to avoid bird strike

**Guidance heading:**

**B64D 2201/00      Airbags mounted in aircraft for any use**

**Guidance heading:**

**B64D 2203/00      Aircraft or airfield lights using LEDs**

**B64D 2205/00      Aircraft with means for ground manoeuvring, such as taxiing, using an auxiliary thrust system, e.g. jet-engines, propellers or compressed air**

**B64D 2211/00      Arrangements of solar panels on aircraft**

**B64D 2221/00      Electric power distribution systems onboard aircraft**

**B64D 2231/00      Emergency oxygen systems**

B64D 2231/02 . Supply or distribution systems

B64D 2231/025 . . Oxygen masks ; Mask storages ( [adaptations for seats L60D 11/06A40](#) ) ; Features related to mask deployment.

## **B64D 2241/00 NACA type air intakes**

### **B64D 2700/00 \*\* to be decided \*\***

B64D 2700/62 . \*\* to be decided \*\*

B64D 2700/62008 . . Aircraft equipment

B64D 2700/62017 . . . Respiratory apparatus for high altitude

B64D 2700/62026 . . . . Pressurised cabins

B64D 2700/62035 . . . . . Pressure control valves

B64D 2700/62043 . . . Indicators ; Protective devices

B64D 2700/62052 . . . . De-icing or preventing icing

B64D 2700/62061 . . . . . of structural elements, e.g. fuselage, wings and the like

B64D 2700/6207 . . . by mechanical means

B64D 2700/62078 . . . by electric heating

B64D 2700/62087 . . . by ducted exhaust gas

B64D 2700/62096 . . . . of propellers

B64D 2700/62105 . . . by mechanical means

B64D 2700/62114 . . . by electric heating

B64D 2700/62122 . . . by ducted exhaust gas

B64D 2700/62131 . . . . of windows or air intakes

B64D 2700/6214 . . . by mechanical means

B64D 2700/62149 . . . by electric heating

B64D 2700/62157 . . . by ducted exhaust gas

B64D 2700/62166 . . . Mounting of instruments

B64D 2700/62175 . . Dashboards ; Radar antennae ; Chart tables

B64D 2700/62184 . . Measuring instruments

B64D 2700/62192 . . . not using electrical means

B64D 2700/62201 . . . . Turbulence detectors not using radar signals

B64D 2700/6221 . . . using electrical means

B64D 2700/62219 . . . Electric safety devices

B64D 2700/62228 . . . Electric compensation or correction devices

B64D 2700/62236 . . . Electrical circuits for acceleration indicators

B64D 2700/62245 . . . Electric circuits for rate of change indicators

B64D 2700/62254 . . . . . Airspeed indicators

B64D 2700/62263 . . . . . Devices indicating or eliminating decrease of the airspeed

B64D 2700/62271 . . . Roll, pitch or yaw indicators

B64D 2700/6228 . . . . . Airflow direction indicators

B64D 2700/62289 . . . Flight recorders, e.g. black boxes

B64D 2700/62298 . . Weight and center of gravity indicators

B64D 2700/62307	...	Tanks
B64D 2700/62315	..	Tanks or accessories
B64D 2700/62324	...	Manufacturing and materials
B64D 2700/62333	....	Special panels
B64D 2700/62342	.....	Flexible or foldable panels
B64D 2700/6235	.....	Self-sealing or double panels ; Tanks suspended elastically
B64D 2700/62359	.....	Thermally insulated walls
B64D 2700/62368	...	Fluid level indicators
B64D 2700/62377	...	Accessories, e.g. packs, floats, valves
B64D 2700/62385	..	Mounting of tanks ; Supporting devices
B64D 2700/62394	...	Auxiliary tanks ; Tanks convertible into floating devices
B64D 2700/62403	...	Wing parts used as fuel tanks
B64D 2700/62412	..	Emptying or filling of tanks
B64D 2700/62421	...	Emptying devices
B64D 2700/62429	....	Flow lines ; Couplings
B64D 2700/62438	..	Safety devices for tanks
B64D 2700/62447	...	Fire preventing devices
B64D 2700/62456	....	Explosion preventing devices
B64D 2700/62464	...	Devices for degassing fuel or for controlling boiloff
B64D 2700/62473	...	Parachutes
B64D 2700/62482	..	Parts or accessories
B64D 2700/62491	...	Construction of canopies
B64D 2700/625	...	Load suspension ; Harnesses or quick release boxes
B64D 2700/62508	..	Disposition or mounting in aircraft
B64D 2700/62517	..	Manufacturing or packing
B64D 2700/62526	...	Parachutes with a rigid armature
B64D 2700/62535	...	Means for deflating the parachute after use
B64D 2700/62543	...	Means to open or to close the parachute pack
B64D 2700/62552	...	Devices to open or to drive the parachute during fall
B64D 2700/62561	....	Devices to control the time or rate of the opening ; Deceleration devices
B64D 2700/6257	....	Opening induced by means other than airstream
B64D 2700/62578	..	Special uses of parachutes or similar devices
B64D 2700/62587	..	Other emergency devices, e.g. balloons, parachutes with propellers
B64D 2700/62596	...	Dropping, ejecting, releasing or receiving articles during flight
B64D 2700/62605	..	Dropping, ejecting or releasing articles
B64D 2700/62614	...	the article being explosive, e.g. bombs
B64D 2700/62622	....	equipped with parachutes, rotary wings or rudders
B64D 2700/62631	...	Armaments
B64D 2700/6264	..	Mounting of flame-projectors
B64D 2700/62649	..	Mounting of firearms
B64D 2700/62657	..	Devices adapted to shoot through the hollow propeller shaft
B64D 2700/62666	...	Means for protecting aircraft against aerial barriers

B64D 2700/62675	...	Turrets which can be lowered
B64D 2700/62684	...	General disposition of the aircraft in relation to the propulsion means
B64D 2700/62692	..	Tractive or propulsive propellers
B64D 2700/62701	...	operated by hydraulic power
B64D 2700/6271	...	operated by electrical power
B64D 2700/62719	...	jet-driven
B64D 2700/62728	...	Specific for seaplanes or amphibian aircrafts
B64D 2700/62736	..	jet propulsion
B64D 2700/62745	...	combined with propellers
B64D 2700/62754	...	combined with jet-deflectors
B64D 2700/62763	...	Propulsion or transmission devices
B64D 2700/62771	..	General arrangements
B64D 2700/6278	...	in propeller driven aircraft
B64D 2700/62789	....	In seaplanes or amphibian aircraft
B64D 2700/62798	....	One propeller being driven by several engines
B64D 2700/62807	....	Several non-coaxial propellers driven by only one engine
B64D 2700/62815	....	Double propellers
B64D 2700/62824	.....	co-rotating
B64D 2700/62833	.....	counter-rotating
B64D 2700/62842	.....	driven by only one engine
B64D 2700/6285	.....	driven by several engines
B64D 2700/62859	...	in jet propulsion aircraft
B64D 2700/62868	..	Manufacturing of propellers or propulsive wheels
B64D 2700/62877	...	Variable-pitch blades
B64D 2700/62885	....	Torque transmission to the propeller shaft
B64D 2700/62894	.....	Coupling between motor shaft and propeller shaft
B64D 2700/62903	.....	through an overrunning coupling, a friction clutch, an adjustable slipping coupling, a hydraulic coupling or a retarding coupling
B64D 2700/62912	.....	through a device which changes the direction of rotation of the propeller relative to the engine
B64D 2700/62921	.....	Brakes arranged on the propeller shaft
B64D 2700/62929	.....	Lubrication of the transmission
B64D 2700/62938	...	Arrangements of propulsion plants
B64D 2700/62947	....	in propeller driven aircraft
B64D 2700/62956	....	in jet propulsion aircraft
B64D 2700/62964	....	Engines ejectable during flight
B64D 2700/62973	....	Heating and cooling devices
B64D 2700/62982	....	Elastic suspension using rubber
B64D 2700/62991	...	Devices for braking or boosting aircraft, e.g. auxiliary propeller, rockets, jets, take-off assistance