

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

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](#))

- 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](#))
- 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, [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](#))
- B64D 9/003 . {Devices for retaining pallets or freight containers (securing freight containers on vehicles [B60P 7/00](#))}
- B64D 2009/006 . {Rollers or drives for pallets of freight containers; e.g. PDU}

- B64D 10/00** {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 11/00** Passenger or crew accommodation; Flight-deck installations not otherwise provided for
- B64D 11/0007 . {Devices specially adapted for food or beverage distribution services}
- B64D 11/0015 . {Arrangements for entertainment or communications, e.g. radio, television}

WARNING

Groups [B64D 11/00151](#) - [B64D 11/00155](#) are incomplete pending reclassification of documents from group [B64D 11/0015](#).

Until reclassification is complete, groups [B64D 11/00151](#) - [B64D 11/00155](#) and [B64D 11/0015](#) should be considered in order to perform a complete search.

- B64D 11/00151 . . {Permanently mounted seat back monitors}
- B64D 11/00152 . . {Seat back fixtures for removable monitors, e.g. tablet computers}
- B64D 11/00153 . . {Monitors mounted on or in the seat other than the seat back}
- B64D 11/00154 . . {Loudspeakers mounted in the seat back}
- B64D 11/00155 . . {Individual entertainment or communication system remote controls therefor, located in or connected to seat components, e.g. to seat back or arm rest}
- B64D 11/0023 . {Movable or removable cabin dividers, e.g. for class separation ([bulkheads B64C 1/10](#))}
- B64D 11/003 . {Stowage devices for passengers' personal luggage}
- 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 11/02 . Toilet fittings (of general application [A47K](#))
- B64D 11/04 . Galleys
- B64D 11/06 . {Arrangements of seats, or adaptations or details specially adapted for aircraft seats (crew seat constructions for emergency purposes [B64D 25/04](#))}

WARNING

Groups [B64D 11/0601](#) - [B64D 11/0698](#) are incomplete pending reclassification of documents from group [B64D 11/06](#).

Until reclassification is complete, groups [B64D 11/0601](#) - [B64D 11/0698](#) and [B64D 11/06](#) should be considered in order to perform a complete search.

- B64D 11/0601 .. {Arrangement of seats for non-standard seating layouts, e.g. seats staggered horizontally or vertically, arranged in an angled or fishbone layout, or facing in other directions than the direction of flight}
- B64D 11/0602 .. {Seat modules, i.e. seat systems including furniture separate from the seat itself}
- B64D 11/0604 ... {including a bed, e.g. cocoon type passenger seat modules}
- B64D 11/0605 ... {including tables or desks}
- B64D 11/0606 .. {with privacy shells, screens, separators or the like (class dividers [B64D 11/0023](#))}
- B64D 11/0607 .. {with devices specially adapted for exercising during travel; with devices specially adapted to prevent thrombosis}
- B64D 11/0611 .. {with means for holding the passenger in a standing position}
- B64D 11/0612 .. {specially adapted for children}
- B64D 11/0616 .. {with ejection means}
- B64D 11/0619 .. {with energy absorbing means specially adapted for mitigating impact loads for passenger seats, e.g. at a crash}
- B64D 11/062 .. {Belts or other passenger restraint means for passenger seats}
- B64D 11/06205 ... {Arrangements of airbags}
- B64D 11/0621 {Airbag initiation or activation means}
- B64D 11/0624 .. {Arrangements of electrical connectors, e.g. for earphone, internet or electric supply}
- B64D 11/0626 .. {with individual temperature or ventilation control}
- B64D 11/0627 .. {Seats combined with storage means}
- B64D 11/0629 ... {the storage means being specially adapted for emergency equipment}

WARNING

B64D 11/0629

(continued)

Groups [B64D 11/0631](#) - [B64D 11/0633](#) is/are incomplete pending reclassification of documents from group [B64D 11/0629](#).

Until reclassification is complete, groups [B64D 11/0631](#) - [B64D 11/0633](#) and [B64D 11/0629](#) should be considered in order to perform a complete search.

- B64D 11/0631 {for life vests}
- B64D 11/0632 {for breathing apparatus}
- B64D 11/0633 {for devices other than life vests and intended for external use, e.g. parachutes or life rafts}
- B64D 11/0636 {Personal storage means or waste disposal bags}
- B64D 11/0638 {with foldable tables, trays or cup holders}
- B64D 11/0639 {with features for adjustment or converting of seats}
- B64D 11/06395 {characterised by the arrangement of electric motors for adjustment}
- B64D 11/064 {Adjustable inclination or position of seats}
- B64D 11/0641 {Seats convertible into beds}
- B64D 11/0642 {Adjustable headrests}
- B64D 11/0643 {Adjustable foot or leg rests}
- B64D 11/0644 {Adjustable arm rests}
- B64D 11/0646 {Seats characterised by special features of stationary arms, foot or head rests}
- B64D 11/0647 {Seats characterised by special upholstery or cushioning features}
- B64D 11/0648 {Lower frame constructions}
- B64D 11/0649 {Seats characterised by special features for reducing weight}
- B64D 11/0689 {specially adapted for pilots}
- B64D 11/0691 {specially adapted for cabin crew}
- 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}
- B64D 11/0697 {Seats suspended from aircraft ceiling}
- B64D 11/0698 {Seats suspended from aircraft walls}

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 vehicles in general [B60H](#))**

- B64D 2013/003 . . {Cabin ventilation nozzles}
- 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 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 CO ₂ 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}
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 2027/005	. {Aircraft with an unducted turbofan comprising contra-rotating rotors, e.g. contra-rotating open rotors [CROR]}
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 2027/026 .. {comprising different types of power plants, e.g. combination of an electric motor and a gas-turbines}
- 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 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}

- 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** ({F02 takes precedence}flying controls B64C)
- 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 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 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 2033/045 . . {comprising infrared suppressors}
- 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](#) , [F02K](#))
- 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 [B64F](#))

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 2037/325	..	{Fuel tanks with provisions for reduction hydraulic ram shocks due to projectile impacts}
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 2041/002	.	{Mounting arrangements for auxiliary power units (APU's)}
B64D 2041/005	.	{Fuel cells}
B64D 41/007	.	{Ram air turbines}
B64D 43/00		Arrangements or adaptations of instruments (arrangements of cameras B64D 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 2045/001	..	{for indicating symmetry of flaps deflection}
B64D 45/0015	.	{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}
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
B64D 2201/00	Airbags mounted in aircraft for any use
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 (seats combined with storage means, said storage means being specially adapted for emergency equipment B64D 11/0629); 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