

SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B64 AIRCRAFT; AVIATION; COSMONAUTICS

B64D EQUIPMENT FOR FITTING IN OR TO AIRCRAFT; FLYING SUITS; PARACHUTES; ARRANGEMENTS OR MOUNTING OF POWER PLANTS OR PROPULSION TRANSMISSIONS IN AIRCRAFT

Subclass index

FLIGHT ARRANGEMENTS ON AIRCRAFT

| | |
|--|----------------------------|
| Of power plant and auxiliaries..... | 27/00, 29/00, 33/00, 41/00 |
| Of power-plant controls and transmissions..... | 31/00, 35/00 |
| For fuel supply..... | 37/00, 39/00 |
| Of flying instruments..... | 43/00 |

USE OF AIRCRAFT

| | |
|-----------------------------|------------|
| For military purposes..... | 1/00, 7/00 |
| For persons or freight..... | 9/00-13/00 |

SAFETY OR EMERGENCY ARRANGEMENTS OR EQUIPMENTS

| | |
|---|---------------------|
| For the aircraft | |
| against icing; against lightning..... | 15/00, 45/02 |
| for landing..... | 17/80, 45/00 |
| For jettisoning or other means concerning fuel..... | 37/26, 37/32 |
| For persons or material | |
| by holding or ejecting means..... | 25/00 |
| by parachutes; parachuting..... | 17/00-21/00, 23/00 |
| Other safety, emergency, or protection means..... | 10/00, 25/00, 45/00 |

EQUIPMENT FOR OPERATIONS PERFORMED DURING FLIGHT

| | |
|---|-------------|
| Releasing or receiving articles, fluent materials, or another aircraft..... | 1/00, 5/00 |
| Towing, fuel replenishing..... | 3/00, 39/00 |

OTHER ARRANGEMENTS OR EQUIPMENT.....47/00

-
- | | |
|---|--|
| <p>1/00 Dropping, ejecting, releasing, or receiving articles, liquids, or the like, in flight (with respect to weapon sights, F41G takes precedence; parachutes 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) [1, 2006.01]</p> <p>1/02 • Dropping, ejecting, or releasing articles (jettisonable fuel reservoirs B64D 37/12) [1, 2006.01]</p> <p>1/04 • • the articles being explosive, e.g. bombs (arming or setting bomb fuzes F42C) [1, 2006.01]</p> <p>1/06 • • • Bomb releasing; Bomb doors [1, 2006.01]</p> <p>1/08 • • the articles being load-carrying devices [1, 2006.01]</p> <p>1/10 • • • Stowage arrangements for the devices in aircraft [1, 2006.01]</p> <p>1/12 • • • Releasing [1, 2006.01]</p> <p>1/14 • • • Absorbing landing shocks [1, 2006.01]</p> <p>1/16 • Dropping or releasing powdered, liquid or gaseous matter, e.g. for fire-fighting (jettisoning fuel B64D 37/26) [1, 5, 2006.01]</p> <p>1/18 • • by spraying, e.g. insecticides (spraying apparatus in general B05B) [1, 2006.01]</p> <p>1/20 • • for sky-writing [1, 2006.01]</p> <p>1/22 • Taking-up articles from earth's surface [1, 2006.01]</p> | <p>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 <u>per se</u> D07B) [1, 2006.01]</p> <p>3/02 • for towing targets (towed targets <u>per se</u> F41J) [1, 2006.01]</p> <p>5/00 Aircraft transported by aircraft, e.g. for release or reberthing during flight (flying units formed by separate aircraft B64C 37/02) [1, 2006.01]</p> <p>7/00 Arrangement 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 <u>per se</u> F41) [1, 2006.01]</p> <p>7/02 • the armaments being firearms [1, 2006.01]</p> <p>7/04 • • fixedly mounted [1, 2006.01]</p> <p>7/06 • • movably mounted [1, 2006.01]</p> <p>7/08 • Arrangement of rocket launchers (rocket launchers <u>per se</u>, e.g. rocket pods, F41F 3/06) [1, 2006.01]</p> |
|---|--|

- 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) **[1, 2006.01]**
- 10/00** **Flying suits** (helmets in general A42B 3/00; breathing helmets A62B 18/00) **[3, 2006.01]**
- 11/00** **Passenger or crew accommodation; Flight-deck installations not otherwise provided for** **[1, 2006.01]**
- 11/02 • Toilet fittings (of general application A47K) **[1, 2006.01]**
- 11/04 • Galleys **[1, 2006.01]**
- 11/06 • Arrangements or adaptations of seats (seat constructions for emergency purposes B64D 25/04) **[1, 2006.01]**
- 13/00** **Arrangements or adaptations of air-treatment apparatus for aircraft crew or passengers, or freight space** (treatment rooms with artificial climate for medical purposes A61G 10/02; respiratory apparatus in general A62B; for vehicles in general B60H) **[1, 2006.01]**
- 13/02 • the air being pressurised **[1, 2006.01]**
- 13/04 • • Automatic control of pressure **[1, 2006.01]**
- 13/06 • the air being conditioned (pressurising B64D 13/02) **[1, 2006.01]**
- 13/08 • • the air being heated or cooled **[1, 2006.01]**
- 15/00** **De-icing or preventing icing on exterior surfaces of aircraft** (motor vehicles specially adapted for carrying de-icing equipment B60P) **[1, 2006.01]**
- 15/02 • by ducted hot gas or liquid **[1, 2006.01]**
- 15/04 • • Hot gas application **[1, 2006.01]**
- 15/06 • • Liquid application (in general B05) **[1, 2006.01]**
- 15/08 • • • exuded from surface **[1, 2006.01]**
- 15/10 • • • sprayed over surface **[1, 2006.01]**
- 15/12 • by electric heating (H05B 3/84 takes precedence; electric heating elements in general H05B) **[1, 5, 2006.01]**
- 15/14 • • controlled cyclically along length of surface **[1, 2006.01]**
- 15/16 • by mechanical means, e.g. pulsating mats or shoes attached to, or built into, surface **[1, 2006.01]**
- 15/18 • • the surface being an aerofoil, rotor, or propeller **[1, 2006.01]**
- 15/20 • Means for detecting icing or initiating de-icing **[1, 2006.01]**
- 15/22 • • Automatic initiation by icing detector **[1, 2006.01]**
- 17/00** **Parachutes** (non-canopied parachutes B64D 19/00) **[1, 2006.01]**
- 17/02 • Canopy arrangement or construction **[1, 2006.01]**
- 17/04 • • formed with two or more canopies arranged about a common axis **[1, 2006.01]**
- 17/06 • • formed with two or more canopies arranged in a cluster **[1, 2006.01]**
- 17/08 • • Secondary or shock-absorbing canopies attached to load line **[1, 2006.01]**
- 17/10 • • Ribbon construction or the like **[1, 2006.01]**
- 17/12 • • constructed to provide variable or non-uniform porosity over area of canopy **[1, 2006.01]**
- 17/14 • • with skirt or air-deflecting panels **[1, 2006.01]**
- 17/16 • • • secured to hem of main canopy **[1, 2006.01]**
- 17/18 • • Vent arrangement or construction **[1, 2006.01]**
- 17/20 • • • variable in area **[1, 2006.01]**
- 17/22 • Load suspension **[1, 2006.01]**
- 17/24 • • Rigging lines **[1, 2006.01]**
- 17/26 • • • attached to hem of canopy **[1, 2006.01]**
- 17/28 • • • attached to apex of canopy **[1, 2006.01]**
- 17/30 • • Harnesses **[1, 4, 2006.01]**
- 17/32 • • • Construction of quick-release box **[1, 2006.01]**
- 17/34 • • adapted to control direction or rate of descent **[1, 2006.01]**
- 17/36 • • incorporating friction devices or frangible connections to reduce shock loading of canopy **[1, 2006.01]**
- 17/38 • • Releasable fastening devices between parachute and load or pack **[1, 2006.01]**
- 17/40 • Packs **[1, 2006.01]**
- 17/42 • • rigid **[1, 2006.01]**
- 17/44 • • • forming part of load **[1, 2006.01]**
- 17/46 • • Closing means **[1, 2006.01]**
- 17/48 • • with separate pack for extractor of auxiliary parachute **[1, 2006.01]**
- 17/50 • • formed with separate compartments for main canopy, rigging lines, or auxiliary parachute **[1, 2006.01]**
- 17/52 • • Opening, e.g. manual **[1, 2006.01]**
- 17/54 • • • automatic **[1, 2006.01]**
- 17/56 • • • • responsive to barometric pressure **[1, 2006.01]**
- 17/58 • • • • responsive to time-delay mechanism **[1, 2006.01]**
- 17/60 • • • • by static line **[1, 2006.01]**
- 17/62 • Deployment **[1, 2006.01]**
- 17/64 • • by extractor parachute **[1, 2006.01]**
- 17/66 • • • attached to hem of main canopy **[1, 2006.01]**
- 17/68 • • • attached to apex of main canopy **[1, 2006.01]**
- 17/70 • • by springs **[1, 2006.01]**
- 17/72 • • by explosive or inflatable means (connection of valves to inflatable elastic bodies B60C 29/00) **[1, 2006.01]**
- 17/74 • • Sequential deployment of a plurality of canopies **[1, 2006.01]**
- 17/76 • • facilitated by method of folding or packing **[1, 2006.01]**
- 17/78 • in association with other load-retarding apparatus **[1, 2006.01]**
- 17/80 • in association with aircraft, e.g. for braking thereof **[1, 2006.01]**
- 19/00** **Non-canopied parachutes** **[1, 2006.01]**
- 19/02 • Rotary-wing parachutes **[1, 2006.01]**
- 21/00** **Testing of parachutes** **[1, 2006.01]**
- 23/00** **Training of parachutists** **[1, 2006.01]**
- 25/00** **Emergency apparatus or devices, not otherwise provided for** (parachutes B64D 17/00, B64D 19/00; jettisoning of fuel tanks or fuel B64D 37/00; safety belts or body harnesses in general A62B 35/00; safety belts or body harnesses for land vehicles B60R 22/00; severable or jettisonable parts of fuselage facilitating emergency escape B64C) **[1, 4, 2006.01]**
- 25/02 • Supports or holding means for living bodies (for ejector seats B64D 25/115) **[1, 5, 2006.01]**
- 25/04 • • Seat modifications **[1, 2006.01]**
- 25/06 • • Harnessing **[1, 4, 2006.01]**
- 25/08 • Ejecting or escaping means (escape apertures B64C) **[1, 2006.01]**

- 25/10 • • Ejector seats [1, 2006.01]
- 25/102 • • • Propelling means, e.g. by a combination of catapult and rocket means (B64D 25/11, B64D 25/112 take precedence) [5, 2006.01]
- 25/105 • • • • by catapult means only [5, 2006.01]
- 25/108 • • • • by rocket means only [5, 2006.01]
- 25/11 • • • Controlling attitude or direction of ejector seat or associated mechanism prior to ejection [5, 2006.01]
- 25/112 • • • Controlling attitude or direction of ejector seat after ejection [5, 2006.01]
- 25/115 • • • Occupant restraining, positioning or protecting devices [5, 2006.01]
- 25/118 • • • Separation of occupant from seat after ejection [5, 2006.01]
- 25/12 • • Ejectable capsules [1, 2006.01]
- 25/14 • • Inflatable escape chutes (connection of valves to inflatable elastic bodies B60C 29/00) [1, 2006.01]
- 25/16 • • Dinghy stowage [1, 2006.01]
- 25/18 • • Flotation gear (aircraft alighting gear B64C) [1, 2006.01]
- 25/20 • • Releasing of crash-position indicators [1, 2006.01]
- 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) [1, 2006.01]
- 27/02 • Aircraft characterised by the type or position of power plant (fuselages or wings adapted for mounting power plant B64C) [1, 2006.01]
- 27/04 • • of piston type [1, 2006.01]
- 27/06 • • • within, or attached to, wing [1, 2006.01]
- 27/08 • • • within, or attached to, fuselage [1, 2006.01]
- 27/10 • • of gas-turbine type (B64D 27/16 takes precedence) [1, 2006.01]
- 27/12 • • • within, or attached to, wing [1, 2006.01]
- 27/14 • • • within, or attached to, fuselage [1, 2006.01]
- 27/16 • • of jet type [1, 2006.01]
- 27/18 • • • within, or attached to, wing [1, 2006.01]
- 27/20 • • • within, or attached to, fuselage [1, 2006.01]
- 27/22 • • using atomic energy [1, 2006.01]
- 27/24 • • using steam, electricity, or spring force (B64D 27/16 takes precedence) [1, 2006.01]
- 27/26 • Aircraft characterised by construction of power-plant mounting [1, 2006.01]
- 29/00 Power-plant nacelles, fairings, or cowlings** (nacelles not otherwise provided for B64C) [1, 2006.01]
- 29/02 • associated with wings (wings adapted for mounting power plant B64C) [1, 2006.01]
- 29/04 • associated with fuselages [1, 2006.01]
- 29/06 • Attaching of nacelles, fairings, or cowlings [1, 2006.01]
- 29/08 • Inspection panels for power plants [1, 2006.01]
- 31/00 Power plant control; Arrangement thereof** (flying controls, conjoint control of power plant and propeller B64C) [1, 2006.01]
- 31/02 • Initiating means [1, 2006.01]
- 31/04 • • actuated personally [1, 2006.01]
- 31/06 • • actuated automatically [1, 2006.01]
- 31/08 • • • for keeping cruising speed constant [1, 2006.01]
- 31/10 • • • for preventing asymmetric thrust upon failure of one power plant [1, 2006.01]
- 31/12 • • • for equalising or synchronising power plants [1, 2006.01]
- 31/14 • • Transmitting means between initiating means and power plants [1, 2006.01]
- 33/00 Arrangement in aircraft of power plant parts or auxiliaries not otherwise provided for** [1, 2006.01]
- 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) [1, 2006.01]
- 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) [1, 3, 2006.01]
- 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) [1, 2006.01]
- 33/10 • • Radiator arrangement [1, 2006.01]
- 33/12 • • • of retractable type [1, 2006.01]
- 35/00 Transmitting power from power plant to propellers or rotors; Arrangements of transmissions** (propellers or rotors per se, helicopter transmissions B64C) [1, 2006.01]
- 35/02 • characterised by the type of power plant [1, 2006.01]
- 35/04 • characterised by the transmission driving a plurality of propellers or rotors [1, 2006.01]
- 35/06 • • the propellers or rotors being counter-rotating [1, 2006.01]
- 35/08 • characterised by the transmission being driven by a plurality of power plants [1, 2006.01]
- 37/00 Arrangements in connection with fuel supply for power plant** (refuelling during flight B64D 39/00) [1, 2006.01]
- 37/02 • Tanks (tanks constructed integrally with aircraft wings B64C; tanks in general B65D) [1, 2006.01]
- 37/04 • • Arrangement thereof in or on aircraft [1, 2006.01]
- 37/06 • • Constructional adaptations thereof [1, 2006.01]
- 37/08 • • • Internal partitioning [1, 2006.01]
- 37/10 • • • to facilitate fuel pressurisation [1, 2006.01]
- 37/12 • • • jettisonable [1, 2006.01]
- 37/14 • • Filling or emptying (transferring fuels to adjust aircraft trim B64C) [1, 2006.01]
- 37/16 • • • Filling systems (ground installations for fuelling aircraft B64F) [1, 2006.01]
- 37/18 • • • • Conditioning fuel during filling [1, 2006.01]
- 37/20 • • • • Emptying systems [1, 2006.01]
- 37/22 • • • • facilitating emptying in any position of tank [1, 2006.01]
- 37/24 • • • • using gas pressure [1, 2006.01]
- 37/26 • • • • Jettisoning of fuel [1, 2006.01]
- 37/28 • • • • Control thereof [1, 2006.01]
- 37/30 • Fuel systems for specific fuels [1, 2006.01]
- 37/32 • Safety measures not otherwise provided for, e.g. preventing explosive conditions (extinguishing or preventing fires in aircraft A62C) [1, 2006.01]
- 37/34 • Conditioning fuel, e.g. heating (during filling B64D 37/18) [1, 2006.01]
- 39/00 Refuelling during flight** (filling or emptying fuel tanks B64D 37/14) [1, 2006.01]
- 39/02 • Means for paying-in or out hose [1, 2006.01]
- 39/04 • Adaptations of hose construction (pipes in general F16L) [1, 2006.01]

B64D

- 39/06 • Connecting hose to aircraft; Disconnecting hose therefrom [1, 2006.01]
- 41/00 **Power installations for auxiliary purposes [1, 2006.01]**
- 43/00 **Arrangements or adaptations of instruments** (arrangements of cameras B64D 47/08; aeronautical measuring instruments per se G01C) [1, 2006.01]
- 43/02 • for indicating aircraft speed or stalling conditions [1, 2006.01]
- 45/00 **Aircraft indicators or protectors not otherwise provided for** (camouflage F41H 3/00) [1, 2006.01]
- 45/02 • Lightning protectors (lightning arrestors H01C 7/12, H01C 8/04, H01G 9/18, H01T; circuit arrangements therefor H02H); Static dischargers (in general H05F 3/00) [1, 2006.01]
- 45/04 • Landing aids; Safety measures to prevent collision with earth's surface [1, 2006.01]
- 45/06 • • mechanical [1, 2006.01]
- 45/08 • • optical [1, 2006.01]
- 47/00 **Equipment not otherwise provided for [1, 2006.01]**
- 47/02 • Arrangements or adaptations of signal or lighting devices [1, 2006.01]
- 47/04 • • the lighting devices being primarily intended to illuminate the way ahead [1, 2006.01]
- 47/06 • • for indicating aircraft presence [1, 2006.01]
- 47/08 • Arrangements of cameras [1, 2006.01]