

B 64 D EQUIPMENT FOR FITTING IN OR TO AIRCRAFT; FLYING SUITS; PARACHUTES; ARRANGEMENTS OR MOUNTING OF POWER PLANTS OR PROPULSION TRANSMISSIONS
Subclass Index
FLIGHT ARRANGEMENTS ON AIRCRAFT

- Of power plant and auxiliaries27/00, 29/00, 33/00, 41/00
- Of power-plant controls and transmissions.....31/00, 35/00
- For fuel supply37/00, 39/00
- Of flying instruments43/00

USE OF AIRCRAFT

- For military purposes1/00, 7/00
- For persons or freight9/00 to 13/00

SAFETY OR EMERGENCY
ARRANGEMENTS OR EQUIPMENTS

- For the aircraft
 - against icing; against lightning15/00; 45/02
 - for landing17/80, 45/00

- For jettisoning or other means concerning fuel37/26, 37/32
- For persons or material
 - by holding or ejecting means.....25/00
 - by parachutes; parachuting.....17/00 to 21/00; 23/00
- Other safety, emergency, or protection means10/00, 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

- EQUIPMENT47/00

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- 1/00 **Dropping, ejecting, releasing, or receiving articles, liquids, or the like, in flight** (with respect to weapon sights, **F 41 G** takes precedence; parachutes 17/00; ejectable seats 25/10; ejectable capsules 25/12; refuelling during flight 39/00; launching apparatus for projecting projectiles or missiles **F 41 F 1/00, 7/00**; rocket or torpedo launchers **F 41 F 3/00**)
 - 1/02 . Dropping, ejecting, or releasing articles (jettisonable fuel reservoirs 37/12)
 - 1/04 . . the articles being explosive, e.g. bombs (arming or setting bomb fuzes **F 42 C**)
 - 1/06 . . . Bomb releasing; Bomb doors
 - 1/08 . . the articles being load-carrying devices
 - 1/10 . . . Stowage arrangements for the devices in aircraft
 - 1/12 . . . Releasing
 - 1/14 . . . Absorbing landing shocks
 - 1/16 . Dropping or releasing powdered, liquid or gaseous matter, e.g. for fire-fighting (jettisoning fuel 37/26) [5]
 - 1/18 . . by spraying, e.g. insecticides (spraying apparatus in general **B 05 B**)
 - 1/20 . . for sky-writing
 - 1/22 . Taking-up articles from earth's surface
 - 3/00 **Aircraft adaptations to facilitate towing or being towed** (39/00 takes precedence; ground installations for launching or towing aircraft **B 64 F**; towing ropes per se **D 07 B**)
 - 3/02 . for towing targets (towed targets per se **F 41 J**)
 - 5/00 **Aircraft transported by aircraft, e.g. for release or reberthing during flight** (flying units formed by separate aircraft **B 64 C 37/02**)
 - 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 1/00; armaments or mountings therefor per se **F 41**)
 - 7/02 . the armaments being firearms
 - 7/04 . . fixedly mounted
 - 7/06 . . movably mounted
 - 7/08 . Arrangement of rocket launchers (rocket launchers per se, e.g. rocket pods, **F 41 F 3/06**)
 - 9/00 **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 **B 64 C**; ground installations **B 64 F**)
 - 10/00 **Flying suits** (helmets in general **A 42 B 3/00**; breathing helmets **A 62 B 18/00**) [3]
 - 11/00 **Passenger or crew accommodation; Flight-deck installations not otherwise provided for**
 - 11/02 . Toilet fittings (of general application **A 47 K**)
 - 11/04 . Galleys
 - 11/06 . Arrangements or adaptations of seats (seat constructions for emergency purposes 25/04)
 - 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 **A 61 G 10/02**; respiratory apparatus in general **A 62 B**; for vehicles in general **B 60 H**)
 - 13/02 . the air being pressurised
 - 13/04 . . Automatic control of pressure
 - 13/06 . the air being conditioned (pressurising 13/02)
 - 13/08 . . the air being heated or cooled
 - 15/00 **De-icing or preventing icing on exterior surfaces of aircraft** (motor vehicles specially adapted for carrying de-icing equipment **B 60 P**)
 - 15/02 . by ducted hot gas or liquid
 - 15/04 . . Hot gas application
 - 15/06 . . Liquid application (in general **B 05**)
 - 15/08 . . . exuded from surface
 - 15/10 . . . sprayed over surface
 - 15/12 . by electric heating (**H 05 B 3/84** takes precedence; electric heating elements in general **H 05 B**) [5]
 - 15/14 . . controlled cyclically along length of surface

- 15/16 . by mechanical means, e.g. pulsating mats or shoes attached to, or built into, surface
- 15/18 . . the surface being an aerofoil, rotor, or propeller
- 15/20 . Means for detecting icing or initiating de-icing
- 15/22 . . Automatic initiation by icing detector
- 17/00 Parachutes** (non-canopied parachutes 19/00)
- 17/02 . Canopy arrangement or construction
- 17/04 . . formed with two or more canopies arranged about a common axis
- 17/06 . . formed with two or more canopies arranged in a cluster
- 17/08 . . Secondary or shock-absorbing canopies attached to load line
- 17/10 . . Ribbon construction or the like
- 17/12 . . constructed to provide variable or non-uniform porosity over area of canopy
- 17/14 . . with skirt or air-deflecting panels
- 17/16 . . . secured to hem of main canopy
- 17/18 . . Vent arrangement or construction
- 17/20 . . . variable in area
- 17/22 . Load suspension
- 17/24 . . Rigging lines
- 17/26 . . . attached to hem of canopy
- 17/28 . . . attached to apex of canopy
- 17/30 . . Harnesses [4]
- 17/32 . . . Construction of quick-release box
- 17/34 . . adapted to control direction or rate of descent
- 17/36 . . incorporating friction devices or frangible connections to reduce shock loading of canopy
- 17/38 . . Releasable fastening devices between parachute and load or pack
- 17/40 . Packs
- 17/42 . . rigid
- 17/44 . . . forming part of load
- 17/46 . . Closing means
- 17/48 . . with separate pack for extractor of auxiliary parachute
- 17/50 . . formed with separate compartments for main canopy, rigging lines, or auxiliary parachute
- 17/52 . . Opening, e.g. manual
- 17/54 . . . automatic
- 17/56 responsive to barometric pressure
- 17/58 responsive to time-delay mechanism
- 17/60 by static line
- 17/62 . Deployment
- 17/64 . . by extractor parachute
- 17/66 . . . attached to hem of main canopy
- 17/68 . . . attached to apex of main canopy
- 17/70 . . by springs
- 17/72 . . by explosive or inflatable means (connection of valves to inflatable elastic bodies B 60 C 29/00)
- 17/74 . . Sequential deployment of a plurality of canopies
- 17/76 . . facilitated by method of folding or packing
- 17/78 . in association with other load-retarding apparatus
- 17/80 . in association with aircraft, e.g. for braking thereof

19/00 Non-canopied parachutes

- 19/02 . Rotary-wing parachutes

21/00 Testing of parachutes**23/00 Training of parachutists****25/00 Emergency apparatus or devices, not otherwise provided for** (parachutes 17/00, 19/00; jettisoning of fuel tanks or fuel 37/00; safety belts or body harnesses in general A 62 B 35/00; safety belts or body harnesses for land vehicles B 60 R 22/00; severable or jettisonable parts of fuselage facilitating emergency escape B 64 C) [4]

- 25/02 . Supports or holding means for living bodies (for ejector seats 25/115) [5]
- 25/04 . . Seat modifications
- 25/06 . . Harnessing [4]
- 25/08 . Ejecting or escaping means (escape apertures B 64 C)
- 25/10 . . Ejector seats
- 25/102 . . . Propelling means, e.g. by a combination of catapult and rocket means (25/11, 25/112 take precedence) [5]
- 25/105 by catapult means only [5]
- 25/108 by rocket means only [5]
- 25/11 . . . Controlling attitude or direction of ejector seat or associated mechanism prior to ejection [5]
- 25/112 . . . Controlling attitude or direction of ejector seat after ejection [5]
- 25/115 . . . Occupant restraining, positioning or protecting devices [5]
- 25/118 . . . Separation of occupant from seat after ejection [5]
- 25/12 . . Ejectable capsules
- 25/14 . . Inflatable escape chutes (connection of valves to inflatable elastic bodies B 60 C 29/00)
- 25/16 . . Dinghy stowage
- 25/18 . . Flotation gear (aircraft alighting gear B 64 C)
- 25/20 . . Releasing of crash-position indicators

27/00 Arrangement or mounting of power plant in aircraft; Aircraft characterised thereby (attitude, flight-direction, or altitude control of aircraft by jet reaction B 64 C)

- 27/02 . Aircraft characterised by the type or position of power plant (fuselages or wings adapted for mounting power plant B 64 C)
- 27/04 . . of piston type
- 27/06 . . . within, or attached to, wing
- 27/08 . . . within, or attached to, fuselage
- 27/10 . . of gas-turbine type (27/16 takes precedence)
- 27/12 . . . within, or attached to, wing
- 27/14 . . . within, or attached to, fuselage
- 27/16 . . of jet type
- 27/18 . . . within, or attached to, wing
- 27/20 . . . within, or attached to, fuselage
- 27/22 . . using atomic energy
- 27/24 . . using steam, electricity, or spring force (27/16 takes precedence)
- 27/26 . Aircraft characterised by construction of power-plant mounting

29/00 Power-plant nacelles, fairings, or cowlings (nacelles not otherwise provided for B 64 C)

- 29/02 . associated with wings (wings adapted for mounting power plant B 64 C)
- 29/04 . associated with fuselages
- 29/06 . Attaching of nacelles, fairings, or cowlings
- 29/08 . Inspection panels for power plants

31/00 Power plant control; Arrangement thereof (flying controls B 64 C)

- 31/02 . Initiating means
- 31/04 . . actuated personally

- 31/06 . . . actuated automatically
- 31/08 . . . for keeping cruising speed constant (conjoint control of power plant and propeller [B 64 C](#))
- 31/10 . . . for preventing asymmetric thrust upon failure of one power plant
- 31/12 . . . for equalising or synchronising power plants
- 31/14 . Transmitting means between initiating means and power plants

- 33/00 Arrangement in aircraft of power plant parts or auxiliaries not otherwise provided for**
- 33/02 . of combustion air intakes (air intakes for gas-turbine plants or jet-propulsion plants [per se F 02 C 7/04](#); air intakes for combustion engines in general [F 02 M 35/00](#))
- 33/04 . of exhaust outlets or jet pipes (exhaust outlets for combustion engines in general [F 01 N](#); jet pipes or nozzles for jet-propulsion plants [per se F 02 K](#); plants characterised by the form or arrangement of the jet pipe or nozzle [F 02 K](#)) [3]
- 33/08 . of power plant cooling systems (cooling of internal-combustion engines [per se F 01 P](#); cooling of gas-turbine plants or jet-propulsion plants [per se F 02 C, K](#))
- 33/10 . . Radiator arrangement
- 33/12 . . . of retractable type

- 35/00 Transmitting power from power plant to propellers or rotors; Arrangements of transmissions** (propellers or rotors [per se](#), helicopter transmissions [B 64 C](#))
- 35/02 . characterised by the type of power plant
- 35/04 . characterised by the transmission driving a plurality of propellers or rotors
- 35/06 . . the propellers or rotors being counter-rotating
- 35/08 . characterised by the transmission being driven by a plurality of power plants

- 37/00 Arrangements in connection with fuel supply for power plant** (refuelling during flight [39/00](#))
- 37/02 . Tanks (tanks constructed integrally with aircraft wings [B 64 C](#); tanks in general [B 65 D](#))
- 37/04 . . Arrangement thereof in or on aircraft
- 37/06 . . Constructional adaptations thereof
- 37/08 . . . Internal partitioning
- 37/10 . . . to facilitate fuel pressurisation
- 37/12 . . . jettisonable
- 37/14 . . Filling or emptying (transferring fuels to adjust aircraft trim [B 64 C](#))

- 37/16 . . . Filling systems (ground installations for fuelling aircraft [B 64 F](#))
- 37/18 Conditioning fuel during filling
- 37/20 . . . Emptying systems
- 37/22 facilitating emptying in any position of tank
- 37/24 using gas pressure
- 37/26 Jettisoning of fuel
- 37/28 Control thereof
- 37/30 . Fuel systems for specific fuels
- 37/32 . Safety measures not otherwise provided for, e.g. preventing explosive conditions (extinguishing or preventing fires in aircraft [A 62 C](#))
- 37/34 . Conditioning fuel, e.g. heating (during filling [37/18](#))

- 39/00 Refuelling during flight** (filling or emptying fuel tanks [37/14](#))
- 39/02 . Means for paying-in or out hose
- 39/04 . Adaptations of hose construction (pipes in general [F 16 L](#))
- 39/06 . Connecting hose to aircraft; Disconnecting hose therefrom

- 41/00 Power installations for auxiliary purposes**

- 43/00 Arrangements or adaptations of instruments** (arrangements of cameras [47/08](#); aeronautical measuring instruments [per se G 01 C](#))
- 43/02 . for indicating aircraft speed or stalling conditions

- 45/00 Aircraft indicators or protectors not otherwise provided for** (camouflage [F 41 H 3/00](#))
- 45/02 . Lightning protectors (lightning arrestors [H 01 C 7/12, 8/04, H 01 G 9/18, H 01 T](#); circuit arrangements therefor [H 02 H](#)); Static dischargers (in general [H 05 F 3/00](#))
- 45/04 . Landing aids; Safety measures to prevent collision with earth's surface
- 45/06 . . mechanical
- 45/08 . . optical

- 47/00 Equipment not otherwise provided for**
- 47/02 . Arrangements or adaptations of signal or lighting devices
- 47/04 . . the lighting devices being primarily intended to illuminate the way ahead
- 47/06 . . for indicating aircraft presence
- 47/08 . Arrangements of cameras