

B64 AIRCRAFT; AVIATION; COSMONAUTICS**B64D EQUIPMENT FOR FITTING IN OR TO AIRCRAFT; FLYING SUITS; PARACHUTES; ARRANGEMENTS OR MOUNTING OF POWER PLANTS OR PROPULSION TRANSMISSIONS****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 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 replenishing3/00, 39/00

OTHER ARRANGEMENTS OR

EQUIPMENT47/00

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)

1/02 . Dropping, ejecting, or releasing articles (jettisonable fuel reservoirs B64D 37/12)

1/04 . . the articles being explosive, e.g. bombs (arming or setting bomb fuzes F42C)

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 B64D 37/26) [5]

1/18 . . by spraying, e.g. insecticides (spraying apparatus in general B05B)

1/20 . . for sky-writing

1/22 . Taking-up articles from earth's surface

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)

3/02 . for towing targets (towed targets per se F41J)

5/00 Aircraft transported by aircraft, e.g. for release or reberthing during flight (flying units formed by separate aircraft B64C 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 B64D 1/00; armaments or mountings therefor per se F41)

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, F41F 3/06)

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)

10/00 Flying suits (helmets in general A42B 3/00; breathing helmets A62B 18/00) [3]

11/00 Passenger or crew accommodation; Flight-deck installations not otherwise provided for

11/02 . Toilet fittings (of general application A47K)

11/04 . Galleys

11/06 . Arrangements or adaptations of seats (seat constructions for emergency purposes B64D 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 A61G 10/02; respiratory apparatus in general A62B; for vehicles in general B60H)

13/02 . the air being pressurised

13/04 . . Automatic control of pressure

13/06 . the air being conditioned (pressurising B64D 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 B60P)
- 15/02 . by ducted hot gas or liquid
 - 15/04 . . Hot gas application
 - 15/06 . . Liquid application (in general B05)
 - 15/08 . . . exuded from surface
 - 15/10 . . . sprayed over surface
 - 15/12 . by electric heating (H05B 3/84 takes precedence; electric heating elements in general H05B) [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 B64D 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 B60C 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 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) [4]
- 25/02 . Supports or holding means for living bodies (for ejector seats B64D 25/115) [5]
 - 25/04 . . Seat modifications
 - 25/06 . . Harnessing [4]
 - 25/08 . Ejecting or escaping means (escape apertures B64C)
 - 25/10 . . Ejector seats
 - 25/102 . . . Propelling means, e.g. by a combination of catapult and rocket means (B64D 25/11, B64D 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 B60C 29/00)
 - 25/16 . . Dinghy stowage
 - 25/18 . . Flotation gear (aircraft alighting gear B64C)
 - 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 B64C)
- 27/02 . Aircraft characterised by the type or position of power plant (fuselages or wings adapted for mounting power plant B64C)
 - 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 (B64D 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 (B64D 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 B64C)
- 29/02 . associated with wings (wings adapted for mounting power plant B64C)
 - 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, conjoint control of power plant and propeller B64C)
- 31/02 . Initiating means
 - 31/04 . . actuated personally
 - 31/06 . . actuated automatically
 - 31/08 . . . for keeping cruising speed constant
 - 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 F02C 7/04; air intakes for combustion engines in general F02M 35/00)
 - 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) [3]
 - 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)
 - 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 B64C)
- 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 B64D 39/00)
- 37/02 . Tanks (tanks constructed integrally with aircraft wings B64C; tanks in general B65D)
 - 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 B64C)
 - 37/16 . . . Filling systems (ground installations for fuelling aircraft B64F)
 - 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 A62C)
 - 37/34 . Conditioning fuel, e.g. heating (during filling B64D 37/18)
- 39/00 Refuelling during flight** (filling or emptying fuel tanks B64D 37/14)
- 39/02 . Means for paying-in or out hose
 - 39/04 . Adaptations of hose construction (pipes in general F16L)
 - 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 B64D 47/08; aeronautical measuring instruments per se G01C)
- 43/02 . for indicating aircraft speed or stalling conditions
- 45/00 Aircraft indicators or protectors not otherwise provided for** (camouflage F41H 3/00)
- 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)
 - 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