

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

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

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| <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)</p> <p>1/02 • Dropping, ejecting, or releasing articles (jettisonable fuel reservoirs B64D 37/12)</p> <p>1/04 • • the articles being explosive, e.g. bombs (arming or setting bomb fuzes F42C)</p> <p>1/06 • • • Bomb releasing; Bomb doors</p> <p>1/08 • • the articles being load-carrying devices</p> <p>1/10 • • • Stowage arrangements for the devices in aircraft</p> <p>1/12 • • • Releasing</p> <p>1/14 • • • Absorbing landing shocks</p> <p>1/16 • Dropping or releasing powdered, liquid or gaseous matter, e.g. for fire-fighting (jettisoning fuel B64D 37/26) [5]</p> <p>1/18 • • by spraying, e.g. insecticides (spraying apparatus in general B05B)</p> <p>1/20 • • for sky-writing</p> <p>1/22 • Taking-up articles from earth's surface</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)</p> <p>3/02 • for towing targets (towed targets <u>per se</u> F41J)</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)</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)</p> <p>7/02 • the armaments being firearms</p> <p>7/04 • • fixedly mounted</p> <p>7/06 • • movably mounted</p> <p>7/08 • Arrangement of rocket launchers (rocket launchers <u>per se</u>, e.g. rocket pods, F41F 3/06)</p> <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)</p> |
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- 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