

## 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><b>1/00 Dropping, ejecting, releasing, or receiving articles, liquids, or the like, in flight</b> (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><b>3/00 Aircraft adaptations to facilitate towing or being towed</b> (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><b>5/00 Aircraft transported by aircraft, e.g. for release or reberthing during flight</b> (flying units formed by separate aircraft B64C 37/02)</p> <p><b>7/00 Arrangement of military equipment, e.g. armaments, armament accessories, or military shielding, in aircraft; Adaptations of armament mountings for aircraft</b> (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><b>9/00 Equipment for handling freight; Equipment for facilitating passenger embarkation or the like</b> (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	<b>Flying suits</b> (helmets in general A42B 3/00; breathing helmets A62B 18/00) [3]	17/46	• • Closing means
11/00	<b>Passenger or crew accommodation; Flight-deck installations not otherwise provided for</b>	17/48	• • with separate pack for extractor of auxiliary parachute
11/02	• Toilet fittings (of general application A47K)	17/50	• • formed with separate compartments for main canopy, rigging lines, or auxiliary parachute
11/04	• Galleys	17/52	• • Opening, e.g. manual
11/06	• Arrangements or adaptations of seats (seat constructions for emergency purposes B64D 25/04)	17/54	• • • automatic
13/00	<b>Arrangements or adaptations of air-treatment apparatus for aircraft crew or passengers, or freight space</b> (treatment rooms with artificial climate for medical purposes A61G 10/02; respiratory apparatus in general A62B; for vehicles in general B60H)	17/56	• • • • responsive to barometric pressure
13/02	• the air being pressurised	17/58	• • • • responsive to time-delay mechanism
13/04	• • Automatic control of pressure	17/60	• • • • by static line
13/06	• the air being conditioned (pressurising B64D 13/02)	17/62	• Deployment
13/08	• • the air being heated or cooled	17/64	• • by extractor parachute
15/00	<b>De-icing or preventing icing on exterior surfaces of aircraft</b> (motor vehicles specially adapted for carrying de-icing equipment B60P)	17/66	• • • attached to hem of main canopy
15/02	• by ducted hot gas or liquid	17/68	• • • attached to apex of main canopy
15/04	• • Hot gas application	17/70	• • by springs
15/06	• • Liquid application (in general B05)	17/72	• • by explosive or inflatable means (connection of valves to inflatable elastic bodies B60C 29/00)
15/08	• • • exuded from surface	17/74	• • Sequential deployment of a plurality of canopies
15/10	• • • sprayed over surface	17/76	• • facilitated by method of folding or packing
15/12	• by electric heating (H05B 3/84 takes precedence; electric heating elements in general H05B) [5]	17/78	• in association with other load-retarding apparatus
15/14	• • controlled cyclically along length of surface	17/80	• in association with aircraft, e.g. for braking thereof
15/16	• by mechanical means, e.g. pulsating mats or shoes attached to, or built into, surface	19/00	<b>Non-canopied parachutes</b>
15/18	• • the surface being an aerofoil, rotor, or propeller	19/02	• Rotary-wing parachutes
15/20	• Means for detecting icing or initiating de-icing	21/00	<b>Testing of parachutes</b>
15/22	• • Automatic initiation by icing detector	23/00	<b>Training of parachutists</b>
17/00	<b>Parachutes</b> (non-canopied parachutes B64D 19/00)	25/00	<b>Emergency apparatus or devices, not otherwise provided for</b> (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]
17/02	• Canopy arrangement or construction	25/02	• Supports or holding means for living bodies (for ejector seats B64D 25/115) [5]
17/04	• • formed with two or more canopies arranged about a common axis	25/04	• • Seat modifications
17/06	• • formed with two or more canopies arranged in a cluster	25/06	• • Harnessing [4]
17/08	• • Secondary or shock-absorbing canopies attached to load line	25/08	• Ejecting or escaping means (escape apertures B64C)
17/10	• • Ribbon construction or the like	25/10	• • Ejector seats
17/12	• • constructed to provide variable or non-uniform porosity over area of canopy	25/102	• • • Propelling means, e.g. by a combination of catapult and rocket means (B64D 25/11, B64D 25/112 take precedence) [5]
17/14	• • with skirt or air-deflecting panels	25/105	• • • • by catapult means only [5]
17/16	• • • secured to hem of main canopy	25/108	• • • • by rocket means only [5]
17/18	• • Vent arrangement or construction	25/11	• • • Controlling attitude or direction of ejector seat or associated mechanism prior to ejection [5]
17/20	• • • variable in area	25/112	• • • Controlling attitude or direction of ejector seat after ejection [5]
17/22	• Load suspension	25/115	• • • Occupant restraining, positioning or protecting devices [5]
17/24	• Rigging lines	25/118	• • • Separation of occupant from seat after ejection [5]
17/26	• • • attached to hem of canopy	25/12	• Ejectable capsules
17/28	• • • attached to apex of canopy	25/14	• Inflatable escape chutes (connection of valves to inflatable elastic bodies B60C 29/00)
17/30	• Harnesses [4]	25/16	• • Dinghy stowage
17/32	• • • Construction of quick-release box	25/18	• • Flotation gear (aircraft alighting gear B64C)
17/34	• • adapted to control direction or rate of descent	25/20	• • Releasing of crash-position indicators
17/36	• • incorporating friction devices or frangible connections to reduce shock loading of canopy	27/00	<b>Arrangement or mounting of power plant in aircraft; Aircraft characterised thereby</b> (attitude, flight-direction, or altitude control of aircraft by jet reaction B64C)
17/38	• • Releasable fastening devices between parachute and load or pack		
17/40	• Packs		
17/42	• • rigid		
17/44	• • • forming part of load		

- 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