

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### 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

##### WARNINGS

- The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
 

|             |            |                            |
|-------------|------------|----------------------------|
| B64D 15/18  | covered by | <a href="#">B64D 15/16</a> |
| B64D 25/102 | covered by | <a href="#">B64D 25/10</a> |
| B64D 25/105 | covered by | <a href="#">B64D 25/10</a> |
| B64D 25/108 | covered by | <a href="#">B64D 25/10</a> |
| B64D 25/11  | covered by | <a href="#">B64D 25/10</a> |
| B64D 25/112 | covered by | <a href="#">B64D 25/10</a> |
| B64D 25/115 | covered by | <a href="#">B64D 25/10</a> |
| B64D 25/118 | covered by | <a href="#">B64D 25/10</a> |
- In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

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| <b>1/00</b> | <b>Dropping, ejecting, releasing, or receiving articles, liquids, or the like, in flight (with respect to weapon sights devices <a href="#">F41G</a> takes precedence, parachutes <a href="#">per se</a> <a href="#">B64D 17/00</a>; ejectable seats <a href="#">B64D 25/10</a>; ejectable capsules <a href="#">B64D 25/12</a>; refuelling during flight <a href="#">B64D 39/00</a>; launching apparatus for projecting projectiles or missiles <a href="#">F41F 1/00</a>, <a href="#">F41F 7/00</a>; rocket or torpedo launchers <a href="#">F41F 3/00</a>)</b> | <b>7/00</b>  | <b>Arrangements of military equipment, e.g. armaments, armament accessories, or military shielding, in aircraft; Adaptations of armament mountings for aircraft (dropping bombs or the like <a href="#">B64D 1/00</a>; armaments or mountings therefor <a href="#">per se</a> <a href="#">F41</a>)</b>   |
| 1/02        | . Dropping, ejecting, or releasing articles (jettisonable fuel reservoirs <a href="#">B64D 37/12</a> )   | 7/02         | . the armaments being firearms   |
| 1/04        | . . the articles being explosive, e.g. bombs (arming or setting bomb fuzes <a href="#">F42C</a> )  | 7/04         | . . fixedly mounted  |
| 1/06        | . . . Bomb releasing; Bombs doors  | 7/06         | . . movably mounted  |
| 1/08        | . . the articles being load-carrying devices   | 7/08         | . Arrangements of rocket launchers {or releasing means} (rocket launchers <a href="#">per se</a> , e.g. rocket pods, <a href="#">F41F 3/06</a> )   |
| 1/10        | . . . Stowage arrangements for the devices in aircraft   | <b>9/00</b>  | <b>Equipment for handling freight; Equipment for facilitating passenger embarkation or the like (emergency equipment <a href="#">B64D 17/00</a>, <a href="#">B64D 19/00</a>, <a href="#">B64D 25/00</a>; structures integral with fuselage to facilitate loading, fuselage floors specially adapted for freight, steps mounted on and retractable within aircraft <a href="#">B64C</a>; ground installations <a href="#">B64F</a>)</b> |
| 1/12        | . . . Releasing  | 9/003        | . {Devices for retaining pallets or freight containers (securing freight containers on vehicles <a href="#">B60P 7/00</a> )}   |
| 1/14        | . . . Absorbing landing shocks   | 2009/006     | . {Rollers or drives for pallets of freight containers, e.g. PDU}  |
| 1/16        | . Dropping or releasing powdered, liquid, or gaseous matter, e.g. for fire-fighting (jettisoning fuel <a href="#">B64D 37/26</a> )   | <b>10/00</b> | <b>Flying suits (helmets in general <a href="#">A42B 3/00</a>; breathing helmets <a href="#">A62B 18/00</a>)</b>   |
| 1/18        | . . by spraying, e.g. insecticides (spraying apparatus <a href="#">per se</a> <a href="#">B05B</a> )   | 2010/002     | . {Anti-g suits or garments}   |
| 1/20        | . . for sky-writing  | 2010/005     | . {High altitude suits or garments, e.g. partial or total pressure}  |
| 1/22        | . Taking-up articles from earth's surface  | 2010/007     | . {Suits with cooling or heating means}  |
| <b>3/00</b> | <b>Aircraft adaptations to facilitate towing or being towed (<a href="#">B64D 39/00</a> takes precedence)</b>  | <b>11/00</b> | <b>Passenger or crew accommodation; Flight-deck installations not otherwise provided for</b>   |
| 3/02        | . for towing targets   |              |  |
| <b>5/00</b> | <b>Aircraft transported by aircraft, e.g. for release or reberthing during flight (flying units formed by separate aircraft <a href="#">B64C 37/02</a>)</b>  |              |  |

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| 11/0007   | . {Devices specially adapted for food or beverage distribution services}   | 11/0626      | . . {with individual temperature or ventilation control}   |
| 11/0015   | . {Arrangements for entertainment or communications, e.g. radio, television}   | 11/0627      | . . {Seats combined with storage means}  |
| 11/00151  | . . {Permanently mounted seat back monitors}   | 11/0629      | . . . {the storage means being specially adapted for emergency equipment}  |
| 11/00152  | . . {Seat back fixtures for removable monitors, e.g. tablet computers}   | 11/0631      | . . . . {for life vests}   |
| 11/00153  | . . {Monitors mounted on or in the seat other than the seat back}  | 11/0632      | . . . . {for breathing apparatus}  |
| 11/00154  | . . {Loudspeakers mounted in the seat back}  | 11/0633      | . . . . {for devices other than life vests and intended for external use, e.g. parachutes or life rafts}   |
| 11/00155  | . . {Individual entertainment or communication system remote controls therefor, located in or connected to seat components, e.g. to seat back or arm rest}   | 11/0636      | . . . {Personal storage means or waste disposal bags}  |
| 11/0023   | . {Movable or removable cabin dividers, e.g. for class separation ( <a href="#">bulkheads B64C 1/10</a> )}   | 11/0638      | . . {with foldable tables, trays or cup holders}   |
| 11/003    | . {Stowage devices for passengers' personal luggage}   | 11/0639      | . . {with features for adjustment or converting of seats}  |
| 2011/0038 | . {Illumination systems for cabins as a whole}   | 11/06395     | . . . {characterised by the arrangement of electric motors for adjustment}   |
| 2011/0046 | . {Modular or preassembled units for creating cabin interior structures}   | 11/064       | . . . {Adjustable inclination or position of seats}  |
| 2011/0053 | . {Cabin passenger reading lights}   | 11/0641      | . . . {Seats convertible into beds}  |
| 2011/0061 | . {Windows displaying outside view, artificially generated}  | 11/0642      | . . . {Adjustable headrests}   |
| 2011/0069 | . {Rest berths, beds or the like}  | 11/0643      | . . . {Adjustable foot or leg rests}   |
| 2011/0076 | . . {for crew members, e.g. for sleeping during flight}  | 11/0644      | . . . {Adjustable arm rests}   |
| 2011/0084 | . . {Bed units for passengers attached to the ceiling of the fuselage}   | 11/0646      | . . {Seats characterised by special features of stationary arms, foot or head rests}   |
| 2011/0092 | . . {Arrangements for mounting stretchers in aircraft cabins}  | 11/0647      | . . {Seats characterised by special upholstery or cushioning features}   |
| 11/02     | . Toilet fittings ( <a href="#">of general application A47K</a> )  | 11/0648      | . . {Lower frame constructions}  |
| 11/04     | . Galleys  | 11/0649      | . . {Seats characterised by special features for reducing weight}  |
| 11/06     | . {Arrangements of seats, or adaptations or details specially adapted for aircraft seats ( <a href="#">crew seat constructions for emergency purposes B64D 25/04</a> )}  | 11/0689      | . . {specially adapted for pilots}   |
| 11/0601   | . . {Arrangement of seats for non-standard seating layouts, e.g. seats staggered horizontally or vertically, arranged in an angled or fishbone layout, or facing in other directions than the direction of flight} | 11/0691      | . . {specially adapted for cabin crew}   |
| 11/0602   | . . {Seat modules, i.e. seat systems including furniture separate from the seat itself}  | 11/0693      | . . {Width modification of seat assemblies, e.g. for class modification}   |
| 11/0604   | . . . {including a bed, e.g. cocoon type passenger seat modules}   | 11/0696      | . . {Means for fastening seats to floors, e.g. to floor rails}   |
| 11/0605   | . . . {including tables or desks}  | 11/0697      | . . {Seats suspended from aircraft ceiling}  |
| 11/0606   | . . {with privacy shells, screens, separators or the like ( <a href="#">class dividers B64D 11/0023</a> )}   | 11/0698      | . . {Seats suspended from aircraft walls}  |
| 11/0607   | . . {with devices specially adapted for exercising during travel; with devices specially adapted to prevent thrombosis}  | <b>13/00</b> | <b>Arrangements or adaptations of air-treatment apparatus for aircraft crew or passenger, or freight space; {or structural parts of the aircraft}</b> ( <a href="#">treatment rooms with artificial climate for medical purposes A61G 10/02</a> ; <a href="#">respiratory apparatus in general A62B</a> ; <a href="#">for for vehicles in general B60H</a> ) |
| 11/0611   | . . {with means for holding the passenger in a standing position}  | 2013/003     | . {Cabin ventilation nozzles}  |
| 11/0612   | . . {specially adapted for children}   | 13/006       | . {the air being used to cool structural parts of the aircraft}  |
| 11/0616   | . . {with ejection means}  | 13/02        | . the air being pressurised  |
| 11/0619   | . . {with energy absorbing means specially adapted for mitigating impact loads for passenger seats, e.g. at a crash}   | 13/04        | . . Automatic control of pressure  |
| 11/062    | . . {Belts or other passenger restraint means for passenger seats}   | 13/06        | . the air being conditioned ( <a href="#">pressurising B64D 13/02</a> )  |
| 11/06205  | . . . {Arrangements of airbags}  | 2013/0603    | . . {Environmental Control Systems}  |
| 11/0621   | . . . . {Airbag initiation or activation means}  | 2013/0607    | . . . {providing hot air or liquid for deicing aircraft parts, e.g. aerodynamic surfaces or windows}   |
| 11/0624   | . . {Arrangements of electrical connectors, e.g. for earphone, internet or electric supply}  | 2013/0611    | . . . {combined with auxiliary power units (APU's)}  |
|           |  | 2013/0614    | . . . {with subsystems for cooling avionics}   |
|           |  | 2013/0618    | . . . {with arrangements for reducing or managing bleed air, using another air source, e.g. ram air}   |
|           |  | 2013/0622    | . . . {used in combination with boundary layer control systems}  |
|           |  | 2013/0625    | . . . {comprising means for distribution effusion of conditioned air in the cabin}   |
|           |  | 2013/0629    | . . . {with subsystems for cooling food, catering or special loads}  |

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| 2013/0633    | . . . {including chemical reaction-based thermal management systems}   | 17/20        | . . . variable in area  |
| 2013/0637    | . . . {with CO <sub>2</sub> removers}  | 17/22        | . Load suspension   |
| 2013/064     | . . . {comprising more than one system, e.g. dual systems}   | 17/24        | . . Rigging lines   |
| 2013/0644    | . . . {including electric motors or generators}  | 17/26        | . . . attached to hem of canopy   |
| 2013/0648    | . . . {with energy recovery means, e.g. using turbines}  | 17/28        | . . . attached to apex of canopy  |
| 2013/0651    | . . . {comprising filters, e.g. dust filters}  | 17/30        | . . Harnesses ( <a href="#">harnesses per se A62B</a> )   |
| 2013/0655    | . . . {with zone or personal climate controls}   | 17/32        | . . . Construction of quick-release box   |
| 2013/0659    | . . . {comprising provisions for cooling fuel systems}   | 17/34        | . . adapted to control direction or rate of descent   |
| 2013/0662    | . . . {with humidity control}  | 17/343       | . . . {by reefing means}  |
| 2013/0666    | . . . {with means for preventing icing within the ECS components}  | 17/346       | . . . {by anti-squid lines}   |
| 2013/067     | . . . {with air ionizers}  | 17/36        | . . incorporating friction devices or frangible connections to reduce shock loading of canopy<br>( <a href="#">B64D 17/343</a> , <a href="#">B64D 17/346 take precedence</a> )  |
| 2013/0674    | . . . {comprising liquid subsystems}   | 17/38        | . . Releasable fastening devices between parachute and load or pack   |
| 2013/0677    | . . . {comprising on board oxygen generator systems}   | 17/383       | . . . {Cargo release hooks}   |
| 2013/0681    | . . . {with oxygen control}  | 17/386       | . . . {Devices adapted to cut lines or straps}  |
| 2013/0685    | . . . {with ozone control}   | 17/40        | . Packs   |
| 2013/0688    | . . . {with means for recirculating cabin air}   | 17/42        | . . rigid   |
| 2013/0692    | . . . {with special provisions against smoke from cigarettes}  | 17/44        | . . . forming part of load  |
| 2013/0696    | . . . {with provisions for starting power plants}  | 17/46        | . . Closing means   |
| 13/08        | . . the air being heated or cooled   | 17/48        | . . with separate pack for extractor of auxiliary parachute   |
| <b>15/00</b> | <b>De-icing or preventing icing on exterior surfaces of aircraft (motor vehicles specially adapted for carrying de-icing equipment <a href="#">B60P</a>)</b> | 17/50        | . . formed with separate compartments for main canopy, rigging lines, or auxiliary parachute  |
| 15/02        | . by ducted hot gas or liquid  | 17/52        | . . Opening, e.g. manual  |
| 15/04        | . . Hot gas application  | 17/54        | . . . automatic   |
| 15/06        | . . Liquid application ( <a href="#">in general B05</a> )  | 17/56        | . . . . responsive to barometric pressure   |
| 15/08        | . . . exuded from surface  | 17/58        | . . . . responsive to time-delay mechanism  |
| 15/10        | . . . sprayed over surface   | 17/60        | . . . . by static line  |
| 15/12        | . by electric heating ( <a href="#">electric heating elements in general H05B</a> )  | 17/62        | . Deployment  |
| 15/14        | . . controlled cyclically along length of surface  | 17/64        | . . by extractor parachute  |
| 15/16        | . by mechanical means  | 17/66        | . . . attached to hem of main canopy  |
| 15/163       | . . {using electro-impulsive devices}  | 17/68        | . . . attached to apex of main canopy   |
| 15/166       | . . {using pneumatic boots}  | 17/70        | . . by springs  |
| 15/20        | . Means for detecting icing or initiating de-icing   | 17/72        | . . by explosive or inflatable means  |
| 15/22        | . . Automatic initiation by icing detector   | 17/725       | . . . {by explosive means}  |
| <b>17/00</b> | <b>Parachutes (non canopied parachutes <a href="#">B64D 19/00</a>)</b>   | 17/74        | . . Sequential deployment of a plurality of canopies  |
| 17/02        | . Canopy arrangement or construction   | 17/76        | . . facilitated by method of folding or packing   |
|              | <b>NOTE</b>  | 17/78        | . in association with other load-retarding apparatus  |
|              | <a href="#">B64D 17/025</a> takes precedence over <a href="#">B64D 17/04</a> - <a href="#">B64D 17/18</a>  | 17/80        | . in association with aircraft, e.g. for braking thereof  |
| 17/025       | . . {for gliding chutes}   | <b>19/00</b> | <b>Non-canopied parachutes</b>  |
| 17/04        | . . formed with two or more canopies arranged about a common axis  | 19/02        | . Rotary-wing parachutes  |
| 17/06        | . . formed with two or more canopies arranged in a cluster   | <b>21/00</b> | <b>Testing of parachutes</b>  |
| 17/08        | . . Secondary or shock-absorbing canopies attached to load line  | <b>23/00</b> | <b>Training of parachutists</b>   |
| 17/10        | . . Ribbon construction or the like  | <b>25/00</b> | <b>Emergency apparatus or devices, not otherwise provided for (parachutes <a href="#">B64D 17/00</a>, <a href="#">B64D 19/00</a>; jettisoning of fuel tanks or fuel <a href="#">per se B64D 37/00</a>; {specially adapted for protection against criminal attack, e.g. anti-hijacking systems <a href="#">B64D 45/0015</a>} ; safety belts or body harnesses in general <a href="#">A62B 35/00</a>; safety belts or body harnesses for land vehicles <a href="#">B60R 22/00</a>; jettisonable parts of fuselage facilitating emergency escape <a href="#">B64C</a>)</b> |
| 17/12        | . . constructed to provide variable or non-uniform porosity over area of canopy  | 25/02        | . Supports or holding means for living bodies   |
| 17/14        | . . with skirt or air-deflecting panels  | 25/04        | . . Seat modifications  |
| 17/16        | . . . secured to hem of main canopy  | 25/06        | . . Harnessing  |
| 17/18        | . . Vent arrangement or construction   | 25/08        | . Ejecting or escaping means ( <a href="#">escape apertures B64C</a> )  |
|              |  | 25/10        | . . Ejector seats   |
|              |  | 25/12        | . . Ejectable capsules  |

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| 25/14        | . . Inflatable escape chutes   | 33/02        | . of combustion air intakes (air intakes for gas-turbine plants or jet-propulsion plants <a href="#">per se F02C 7/04</a> ; air intakes for combustion engines in general <a href="#">F02M 35/00</a> )   |
| 25/16        | . . Dinghy stowage   | 2033/0206    | . . {comprising noise reduction means, e.g. acoustic liners}   |
| 25/18        | . . Flotation gear ( <a href="#">aircraft alighting gear B64C</a> )  | 2033/0213    | . . {specially adapted for auxiliary power units (APU's)}  |
| 25/20        | . . Releasing of crash position indicators   | 2033/022     | . . {comprising bird or foreign object protections}  |
| <b>27/00</b> | <b>Arrangement or mounting of power plant in aircraft; Aircraft characterised thereby (attitude, flight direction, or altitude control of aircraft by jet reaction <a href="#">B64C</a>)</b> | 2033/0226    | . . {comprising boundary layer control means}  |
| 2027/005     | . . {Aircraft with an unducted turbofan comprising contra-rotating rotors, e.g. contra-rotating open rotors [CROR]}  | 2033/0233    | . . {comprising de-icing means}  |
| 27/02        | . Aircraft characterised by the type or position of power plant (fuselages or wings adapted for mounting power plant <a href="#">B64C</a> )  | 2033/024     | . . {comprising cooling means}   |
| 27/023       | . . {of rocket type, e.g. for assisting taking-off or braking}   | 2033/0246    | . . {comprising particle separators}   |
| 2027/026     | . . {comprising different types of power plants, e.g. combination of an electric motor and a gas-turbines}   | 2033/0253    | . . {specially adapted for particular type of aircraft}  |
| 27/04        | . . of piston type   | 2033/026     | . . . {for supersonic or hypersonic aircraft}  |
| 27/06        | . . . within or attached to wing   | 2033/0266    | . . {specially adapted for particular type of power plants}  |
| 27/08        | . . . within or attached to fuselage   | 2033/0273    | . . . {for jet engines}  |
| 27/10        | . . of gas-turbine type ( <a href="#">B64D 27/16</a> takes precedence)   | 2033/028     | . . . {for piston engines}   |
| 27/12        | . . . within or attached to wing   | 2033/0286    | . . . {for turbofan engines}   |
| 27/14        | . . . within or attached to fuselage   | 2033/0293    | . . . {for turboprop engines}  |
| 27/16        | . . of jet type  | 33/04        | . of exhaust outlets or jet pipes (exhaust outlets for combustion engines in general <a href="#">F01N</a> ; jet pipes or nozzles for jet-propulsion plants <a href="#">per se F02K</a> ; plants characterised by the form or arrangement of the jet pipe or nozzle <a href="#">F02K</a> {; attitude, flight direction, or altitude control by jet reaction <a href="#">B64C</a> }) |
| 27/18        | . . . within or attached to wing   | 2033/045     | . . {comprising infrared suppressors}  |
| 27/20        | . . . within or attached to fuselage   | 33/06        | . . {Silencing exhaust or propulsion jets (ground installations <a href="#">B64F</a> )}  |
| 27/22        | . . using atomic energy  | 33/08        | . of power plant cooling systems (cooling of internal-combustion engines <a href="#">per se F01P</a> ; cooling of gas-turbine plants or jet-propulsion plants <a href="#">per se F02C</a> , <a href="#">F02K</a> )   |
| 27/24        | . . using steam, electricity, or spring force ( <a href="#">B64D 27/16</a> takes precedence)   | 33/10        | . . Radiator arrangement   |
| 27/26        | . Aircraft characterised by construction of power-plant mounting   | 33/12        | . . . of retractable type  |
| 2027/262     | . . {Engine support arrangements or elements}  | <b>35/00</b> | <b>Transmitting power from power plant to propellers or rotors; Arrangements of transmissions (propellers or rotors <a href="#">per se</a>, helicopter transmissions <a href="#">B64C</a>)</b>   |
| 2027/264     | . . . {comprising box like supporting frames}  | 35/02        | . characterised by the type of power plant   |
| 2027/266     | . . . {comprising suspension arrangements for supporting vertical loads}   | 35/04        | . characterised by the transmission driving a plurality of propellers or rotors  |
| 2027/268     | . . . {comprising thrust links}  | 35/06        | . . the propellers or rotors being counter-rotating  |
| <b>29/00</b> | <b>Power-plant nacelles, fairings, or cowlings (nacelles not otherwise provided for <a href="#">B64C</a>)</b>  | 35/08        | . characterised by the transmission being driven by a plurality of power plants  |
| 29/02        | . associated with wings (wings adapted for mounting power plant <a href="#">B64C</a> )   | <b>37/00</b> | <b>Arrangements in connection with fuel supply for power plant (refuelling during flight <a href="#">B64D 39/00</a>)</b>   |
| 29/04        | . associated with fuselages  | 37/005       | . . {Accessories not provided for in the groups <a href="#">B64D 37/02</a> - <a href="#">B64D 37/28</a> }  |
| 29/06        | . Attaching of nacelles, fairings or cowlings  | 37/02        | . Tanks (tanks constructed integrally with aircraft wings <a href="#">B64C</a> ; shape or construction of tanks <a href="#">per se B65D</a> )  |
| 29/08        | . Inspection panels for power plants   | 37/04        | . . Arrangement thereof in or on aircraft  |
| <b>31/00</b> | <b>Power plant control; Arrangement thereof ({<a href="#">F02</a> takes precedence} flying controls <a href="#">B64C</a>)</b>  | 37/06        | . . Constructional adaptations thereof   |
| 31/02        | . Initiating means   | 37/08        | . . . Internal partitioning  |
| 31/04        | . . actuated personally  | 37/10        | . . . to facilitate fuel pressurisation  |
| 31/06        | . . actuated automatically   | 37/12        | . . . jettisonable   |
| 31/08        | . . . for keeping cruising speed constant (conjoint control of power plant and propeller <a href="#">B64C</a> )  | 37/14        | . . Filling or emptying (transferring fuels to adjust aircraft trim <a href="#">B64C</a> )   |
| 31/10        | . . . for preventing asymmetric thrust upon failure of one power plant   | 37/16        | . . . Filling systems (ground installations for fuelling aircraft <a href="#">B64F</a> )   |
| 31/12        | . . . for equalising or synchronising power plants   |              |  |
| 31/14        | . Transmitting means between initiating means and power plants   |              |  |
| <b>33/00</b> | <b>Arrangements in aircraft of power plant parts or auxiliaries not otherwise provided for</b>   |              |  |



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| 37/18        | . . . . Conditioning fuel during filling   | 2045/0085      | . {Devices for aircraft health monitoring, e.g. monitoring flutter or vibration}  |
| 37/20        | . . . Emptying systems   | 2045/009       | . {Fire detection or protection; Erosion protection, e.g. from airborne particles}  |
| 37/22        | . . . . facilitating emptying in any position of tank  | 2045/0095      | . {Devices specially adapted to avoid bird strike}  |
| 37/24        | . . . . using gas pressure   | 45/02          | . Lightning protectors; Static dischargers ( <a href="#">in general H01T</a> )  |
| 37/26        | . . . . Jettisoning of fuel  | 45/04          | . Landing aids; Safety measures to prevent collision with earth's surface   |
| 37/28        | . . . . Control thereof  | 45/06          | . . mechanical  |
| 37/30        | . Fuel systems for specific fuels  | 45/08          | . . optical   |
| 37/32        | . Safety measures not otherwise provided for, e.g. preventing explosive conditions ( <a href="#">extinguishing or preventing fires in aircraft A62C</a> )              | <b>47/00</b>   | <b>Equipment not otherwise provided for</b>   |
| 2037/325     | . . {Fuel tanks with provisions for reduction hydraulic ram shocks due to projectile impacts}  | 47/02          | . Arrangements or adaptations of signal or lighting devices   |
| 37/34        | . Conditioning fuel, e.g. heating ( <a href="#">during filling B64D 37/18</a> )  | 47/04          | . . the lighting devices being primarily intended to illuminate the way ahead   |
| <b>39/00</b> | <b>Refuelling during flight (filling or emptying fuel tanks <a href="#">B64D 37/14</a>)</b>  | 47/06          | . . for indicating aircraft presence  |
| 39/02        | . Means for paying-in or out hose  | 47/08          | . Arrangements of cameras   |
| 39/04        | . Adaptations of hose construction ( <a href="#">pipes in general F16L</a> )   | <b>2201/00</b> | <b>Airbags mounted in aircraft for any use</b>  |
| 39/06        | . Connecting hose to aircraft; Disconnecting hose therefrom  | <b>2203/00</b> | <b>Aircraft or airfield lights using LEDs</b>   |
| <b>41/00</b> | <b>Power installations for auxiliary purposes</b>  | <b>2205/00</b> | <b>Aircraft with means for ground manoeuvring, such as taxiing, using an auxiliary thrust system, e.g. jet-engines, propellers or compressed air</b>  |
| 2041/002     | . {Mounting arrangements for auxiliary power units (APU's)}  | <b>2211/00</b> | <b>Arrangements of solar panels on aircraft</b>   |
| 2041/005     | . {Fuel cells}   | <b>2221/00</b> | <b>Electric power distribution systems onboard aircraft</b>   |
| 41/007       | . {Ram air turbines}   | <b>2231/00</b> | <b>Emergency oxygen systems</b>   |
| <b>43/00</b> | <b>Arrangements or adaptations of instruments (arrangements of cameras <a href="#">B64D 47/08</a>; aeronautical measuring instruments <a href="#">per se G01C</a>)</b> | 2231/02        | . Supply or distribution systems  |
| 43/02        | . for indicating aircraft speed or stalling conditions   | 2231/025       | . . Oxygen masks; Mask storages ( <a href="#">seats combined with storage means, said storage means being specially adapted for emergency equipment B64D 11/0629</a> ); Features related to mask deployment |
| <b>45/00</b> | <b>Aircraft indicators or protectors not otherwise provided for (<a href="#">camouflage F41H 3/00</a>)</b>   | <b>2241/00</b> | <b>NACA type air intakes</b>  |
| 45/0005      | . {Devices specially adapted to indicate the position of a movable element of the aircraft, e.g. landing gear}   |                |   |
| 2045/001     | . . {for indicating symmetry of flaps deflection}  |                |   |
| 45/0015      | . {Devices specially adapted for the protection against criminal attack, e.g. anti-hijacking systems}  |                |   |
| 2045/002     | . . {by disabling or restraining attackers}  |                |   |
| 2045/0025    | . . . {by spraying gases in cabins, or by shooting darts with anesthetic effects}  |                |   |
| 2045/003     | . . {by monitoring cabins}   |                |   |
| 2045/0035    | . . . {using cameras}  |                |   |
| 2045/004     | . . . {detecting passenger or pilot behaviors by sensors, e.g. biometrics}   |                |   |
| 2045/0045    | . . {by communicating emergency situations to ground control, or between crew members}   |                |   |
| 2045/005     | . . {by protecting cabin or luggage from bombs}  |                |   |
| 2045/0055    | . . {by overriding pilot's controls, or by directing aircraft from ground control to avoid certain paths or zones}   |                |   |
| 2045/006     | . . {by avoiding the use of electronic equipment during flight, e.g. of mobile phones or laptops}  |                |   |
| 2045/0065    | . {Black boxes, devices automatically broadcasting distress signals}   |                |   |
| 2045/007     | . {Indicators or signs in the cabin, e.g. exit signs or seat numbering}  |                |   |
| 2045/0075    | . {Adaptations for use of electronic flight bags in aircraft; Supports therefor in the cockpit}  |                |   |
| 2045/008     | . {Devices for detecting or indicating hard landing}   |                |   |