

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:

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| B64D 15/18 | covered by | B64D 15/16 |
| B64D 25/102 | covered by | B64D 25/10 |
| B64D 25/105 | covered by | B64D 25/10 |
| B64D 25/108 | covered by | B64D 25/10 |
| B64D 25/11 | covered by | B64D 25/10 |
| B64D 25/112 | covered by | B64D 25/10 |
| B64D 25/115 | covered by | B64D 25/10 |
| B64D 25/118 | covered by | B64D 25/10 |
- 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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| 1/00 | Dropping, ejecting, releasing, or receiving articles, liquids, or the like, in flight (with respect to weapon sights devices F41G takes precedence, parachutes per se 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) | 7/00 | 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 B64D 1/00; armaments or mountings therefor per se F41) |
| 1/02 | . Dropping, ejecting, or releasing articles (jettisonable fuel reservoirs B64D 37/12) | 7/02 | . the armaments being firearms |
| 1/04 | . . the articles being explosive, e.g. bombs (arming or setting bomb fuzes F42C) | 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 per se , e.g. rocket pods, F41F 3/06) |
| 1/10 | . . . Stowage arrangements for the devices in aircraft | 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) |
| 1/12 | . . . Releasing | 9/003 | . {Devices for retaining pallets or freight containers (securing freight containers on vehicles B60P 7/00)} |
| 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 B64D 37/26) | 10/00 | Flying suits (helmets in general A42B 3/00; breathing helmets A62B 18/00) |
| 1/18 | . . by spraying, e.g. insecticides (spraying apparatus per se B05B) | 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} |
| 3/00 | Aircraft adaptations to facilitate towing or being towed (B64D 39/00 takes precedence) | 11/00 | Passenger or crew accommodation; Flight-deck installations not otherwise provided for |
| 3/02 | . for towing targets | | |
| 5/00 | Aircraft transported by aircraft, e.g. for release or reberthing during flight (flying units formed by separate aircraft B64C 37/02) | | |

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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 (bulkheads B64C 1/10)} | 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 (of general application A47K) | 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 (crew seat constructions for emergency purposes B64D 25/04)} | 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 (class dividers B64D 11/0023)} | 11/0698 | . . {Seats suspended from aircraft walls} |
| 11/0607 | . . {with devices specially adapted for exercising during travel; with devices specially adapted to prevent thrombosis} | 13/00 | Arrangements or adaptations of air-treatment apparatus for aircraft crew or passenger, or freight space; {or structural parts of the aircraft}(treatment rooms with artificial climate for medical purposes A61G 10/02; respiratory apparatus in general A62B; for for vehicles in general B60H) |
| 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 (pressurising B64D 13/02) |
| 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 ₂ 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 (harnesses per se A62B) |
| 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 (B64D 17/343 , B64D 17/346 take precedence) |
| 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 |
| 15/00 | De-icing or preventing icing on exterior surfaces of aircraft (motor vehicles specially adapted for carrying de-icing equipment B60P) | 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 (in general B05) | 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 (electric heating elements in general H05B) | 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} |
| 17/00 | Parachutes (non canopied parachutes B64D 19/00) | 17/74 | . . Sequential deployment of a plurality of canopies |
| 17/02 | . Canopy arrangement or construction | 17/76 | . . facilitated by method of folding or packing |
| | NOTE | 17/78 | . in association with other load-retarding apparatus |
| | B64D 17/025 takes precedence over B64D 17/04 - B64D 17/18 | 17/80 | . in association with aircraft, e.g. for braking thereof |
| 17/025 | . . {for gliding chutes} | 19/00 | Non-canopied parachutes |
| 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 | 21/00 | Testing of parachutes |
| 17/08 | . . Secondary or shock-absorbing canopies attached to load line | 23/00 | Training of parachutists |
| 17/10 | . . Ribbon construction or the like | 25/00 | Emergency apparatus or devices, not otherwise provided for (parachutes B64D 17/00, B64D 19/00; jettisoning of fuel tanks or fuel per se B64D 37/00; {specially adapted for protection against criminal attack, e.g. anti-hijacking systems B64D 45/0015}; safety belts or body harnesses in general A62B 35/00; safety belts or body harnesses for land vehicles B60R 22/00; jettisonable parts of fuselage facilitating emergency escape B64C) |
| 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 (escape apertures B64C) |
| | | 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 per se F02C 7/04 ; air intakes for combustion engines in general F02M 35/00) |
| 25/16 | . . Dinghy stowage | 2033/0206 | . . {comprising noise reduction means, e.g. acoustic liners} |
| 25/18 | . . Flotation gear (aircraft alighting gear B64C) | 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} |
| 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) | 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 B64C) | 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 (B64D 27/16 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 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 {; attitude, flight direction, or altitude control by jet reaction B64C }) |
| 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 B64F)} |
| 27/22 | . . using atomic energy | 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) |
| 27/24 | . . using steam, electricity, or spring force (B64D 27/16 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} | 35/00 | Transmitting power from power plant to propellers or rotors; Arrangements of transmissions (propellers or rotors per se, helicopter transmissions B64C) |
| 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 |
| 29/00 | Power-plant nacelles, fairings, or cowlings (nacelles not otherwise provided for B64C) | 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 B64C) | 37/00 | Arrangements in connection with fuel supply for power plant (refuelling during flight B64D 39/00) |
| 29/04 | . associated with fuselages | 37/005 | . {Accessories not provided for in the groups B64D 37/02 - B64D 37/28 } |
| 29/06 | . Attaching of nacelles, fairings or cowlings | 37/02 | . Tanks (tanks constructed integrally with aircraft wings B64C ; shape or construction of tanks per se B65D) |
| 29/08 | . Inspection panels for power plants | 37/04 | . . Arrangement thereof in or on aircraft |
| 31/00 | Power plant control; Arrangement thereof ({F02 takes precedence} flying controls B64C) | 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 B64C) | 37/14 | . . Filling or emptying (transferring fuels to adjust aircraft trim B64C) |
| 31/10 | . . . for preventing asymmetric thrust upon failure of one power plant | 37/16 | . . . Filling systems (ground installations for fuelling aircraft B64F) |
| 31/12 | . . . for equalising or synchronising power plants | | |
| 31/14 | . Transmitting means between initiating means and power plants | | |
| 33/00 | Arrangements in aircraft of power plant parts or auxiliaries not otherwise provided for | | |

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| 37/18 | Conditioning fuel during filling | 45/0061 | . . {by protecting cabin or cargo hold from bombs} |
| 37/20 | . . . Emptying systems | 45/0063 | . . {by avoiding the use of electronic equipment during flight, e.g. of mobile phones or laptops} |
| 37/22 | facilitating emptying in any position of tank | 2045/0065 | . {Black boxes, devices automatically broadcasting distress signals} |
| 37/24 | using gas pressure | 2045/007 | . {Indicators or signs in the cabin, e.g. exit signs or seat numbering} |
| 37/26 | Jettisoning of fuel | 2045/0075 | . {Adaptations for use of electronic flight bags in aircraft; Supports therefor in the cockpit} |
| 37/28 | Control thereof | 2045/008 | . {Devices for detecting or indicating hard landing} |
| 37/30 | . Fuel systems for specific fuels | 2045/0085 | . {Devices for aircraft health monitoring, e.g. monitoring flutter or vibration} |
| 37/32 | . Safety measures not otherwise provided for, e.g. preventing explosive conditions (extinguishing or preventing fires in aircraft A62C) | 2045/009 | . {Fire detection or protection; Erosion protection, e.g. from airborne particles} |
| 2037/325 | . . {Fuel tanks with provisions for reduction hydraulic ram shocks due to projectile impacts} | 2045/0095 | . {Devices specially adapted to avoid bird strike} |
| 37/34 | . Conditioning fuel, e.g. heating (during filling B64D 37/18) | 45/02 | . Lightning protectors; Static dischargers (in general H01T) |
| 39/00 | Refuelling during flight (filling or emptying fuel tanks B64D 37/14) | 45/04 | . Landing aids; Safety measures to prevent collision with earth's surface |
| 39/02 | . Means for paying-in or out hose | 45/06 | . . mechanical |
| 39/04 | . Adaptations of hose construction (pipes in general F16L) | 45/08 | . . optical |
| 39/06 | . Connecting hose to aircraft; Disconnecting hose therefrom | 47/00 | Equipment not otherwise provided for |
| 41/00 | Power installations for auxiliary purposes | 47/02 | . Arrangements or adaptations of signal or lighting devices |
| 2041/002 | . {Mounting arrangements for auxiliary power units (APU's)} | 47/04 | . . the lighting devices being primarily intended to illuminate the way ahead |
| 2041/005 | . {Fuel cells} | 47/06 | . . for indicating aircraft presence |
| 41/007 | . {Ram air turbines} | 47/08 | . Arrangements of cameras |
| 43/00 | Arrangements or adaptations of instruments (arrangements of cameras B64D 47/08; aeronautical measuring instruments per se G01C) | 2201/00 | Airbags mounted in aircraft for any use |
| 43/02 | . for indicating aircraft speed or stalling conditions | 2203/00 | Aircraft or airfield lights using LEDs |
| 45/00 | Aircraft indicators or protectors not otherwise provided for (camouflage F41H 3/00) | 2205/00 | Aircraft with means for ground manoeuvring, such as taxiing, using an auxiliary thrust system, e.g. jet-engines, propellers or compressed air |
| 45/0005 | . {Devices specially adapted to indicate the position of a movable element of the aircraft, e.g. landing gear} | 2211/00 | Arrangements of solar panels on aircraft |
| 2045/001 | . . {for indicating symmetry of flaps deflection} | 2221/00 | Electric power distribution systems onboard aircraft |
| 45/0015 | . {Devices specially adapted for the protection against criminal attack, e.g. anti-hijacking systems} | 2231/00 | Emergency oxygen systems |
| 45/0018 | . . {means on aircraft for restricting unauthorized access to the aircraft} | 2231/02 | . Supply or distribution systems |
| 45/0021 | . . {means for restricting access to flight deck} | 2231/025 | . . Oxygen masks; Mask storages (seats combined with storage means, said storage means being specially adapted for emergency equipment B64D 11/0629); Features related to mask deployment |
| 45/0026 | . . . {by creating a secure space between the flight deck and cabin} | 2241/00 | NACA type air intakes |
| 45/0028 | . . . {doors or door arrangements specially adapted to restrict unauthorized access} | | |
| 45/0029 | {electrically actuated} | | |
| 45/0031 | . . {means for overriding or restricting access to flight controls} | | |
| 45/0034 | . . . {by ground-control override} | | |
| 45/0036 | . . {by disabling or restraining attackers} | | |
| 45/0039 | . . . {by electrical shock} | | |
| 45/0042 | . . . {by spraying or injecting chemicals} | | |
| 45/0044 | . . . {by restraining within seats} | | |
| 45/0048 | . . . {by harnesses, nets, ropes, or the like (B64D 45/0044 takes precedence)} | | |
| 45/0051 | . . {by monitoring passengers or crew on aircraft} | | |
| 45/0053 | . . . {using visual equipment, e.g. cameras} | | |
| 45/0056 | . . . {detecting passenger or crew behavior by sensors, e.g. biometrics} | | |
| 45/0059 | . . {by communicating emergency situations to ground control or between crew members} | | |