

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### TRANSPORTING

#### B64 AIRCRAFT; AVIATION; COSMONAUTICS

#### B64D EQUIPMENT FOR FITTING IN OR TO AIRCRAFT; FLIGHT SUITS; PARACHUTES; ARRANGEMENT OR MOUNTING OF POWER PLANTS OR PROPULSION TRANSMISSIONS IN AIRCRAFT

##### WARNING

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>

<b>1/00</b>	<b>Dropping, ejecting, releasing or receiving articles, liquids, or the like, in flight (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>; weapon sights or aiming <a href="#">F41G</a>)</b>	7/06	. . movably mounted
		7/08	. Arrangement of rocket launchers
		<b>9/00</b>	<b>Equipment for handling freight; Equipment for facilitating passenger embarkation or the like</b>
		9/003	. {Devices for retaining pallets or freight containers}
1/02	. Dropping, ejecting, or releasing articles (jettisonable fuel reservoirs <a href="#">B64D 37/12</a> )	2009/006	. {Rollers or drives for pallets of freight containers, e.g. PDU}
1/04	. . the articles being explosive, e.g. bombs	<b>10/00</b>	<b>Flight suits</b>
1/06	. . . Bomb releasing; Bomb doors	2010/002	. {Anti-g suits or garments}
1/08	. . the articles being load-carrying devices	2010/005	. {High altitude suits or garments, e.g. partial or total pressure}
1/10	. . . Stowage arrangements for the devices in aircraft	2010/007	. {Suits with cooling or heating means}
1/12	. . . Releasing	<b>11/00</b>	<b>Passenger or crew accommodation; Flight-deck installations not otherwise provided for</b>
1/14	. . . Absorbing landing shocks	11/0007	. {Devices specially adapted for food or beverage distribution services}
1/16	. Dropping or releasing powdered, liquid, or gaseous matter, e.g. for fire-fighting (jettisoning fuel <a href="#">B64D 37/26</a> )	11/0015	. {Arrangements for entertainment or communications, e.g. radio, television}
1/18	. . by spraying, e.g. insecticides	11/00151	. . {Permanently mounted seat back monitors}
1/20	. . for sky-writing	11/00152	. . {Seat back fixtures for removable monitors, e.g. tablet computers}
1/22	. Taking-up articles from earth's surface	11/00153	. . {Monitors mounted on or in the seat other than the seat back}
<b>3/00</b>	<b>Aircraft adaptations to facilitate towing or being towed</b>	11/00154	. . {Loudspeakers mounted in the seat back}
3/02	. for towing targets	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}
<b>5/00</b>	<b>Aircraft transported by aircraft, e.g. for release or reberthing during flight</b>	11/0023	. {Movable or removable cabin dividers, e.g. for class separation}
<b>7/00</b>	<b>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 <a href="#">B64D 1/00</a>)</b>	11/003	. {Stowage devices for passengers' personal luggage}
7/02	. the armaments being firearms	2011/0038	. {Illumination systems for cabins as a whole}
7/04	. . fixedly mounted		

2011/0046	. {Modular or preassembled units for creating cabin interior structures}	11/0641	. . . {Seats convertible into beds}
2011/0053	. {Cabin passenger reading lights}	11/0642	. . . {Adjustable headrests}
2011/0061	. {Windows displaying outside view, artificially generated}	11/0643	. . . {Adjustable foot or leg rests}
2011/0069	. {Rest berths, beds or the like}	11/0644	. . . {Adjustable arm rests}
2011/0076	. . {for crew members, e.g. for sleeping during flight}	11/0646	. . {Seats characterised by special features of stationary arms, foot or head rests}
2011/0084	. . {Bed units for passengers attached to the ceiling of the fuselage}	11/0647	. . {Seats characterised by special upholstery or cushioning features}
2011/0092	. . {Arrangements for mounting stretchers in aircraft cabins}	11/0648	. . {Lower frame constructions}
11/02	. Toilet fittings	11/0649	. . {Seats characterised by special features for reducing weight}
11/04	. Galleys	11/0689	. . {specially adapted for pilots}
11/06	. {Arrangements of seats, or adaptations or details specially adapted for aircraft seats (crew seat constructions for emergency purposes <a href="#">B64D 25/04</a> )}	11/0691	. . {specially adapted for cabin crew}
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}	11/0693	. . {Width modification of seat assemblies, e.g. for class modification}
11/0602	. . {Seat modules, i.e. seat systems including furniture separate from the seat itself}	11/0696	. . {Means for fastening seats to floors, e.g. to floor rails}
11/0604	. . . {including a bed, e.g. cocoon type passenger seat modules}	11/0697	. . {Seats suspended from aircraft ceiling}
11/0605	. . . {including tables or desks}	11/0698	. . {Seats suspended from aircraft walls}
11/0606	. . {with privacy shells, screens, separators or the like ( <a href="#">class dividers B64D 11/0023</a> )}	<b>13/00</b>	<b>Arrangements or adaptations of air-treatment apparatus for aircraft crew or passengers, or freight space</b>
11/0607	. . {with devices specially adapted for exercising during travel; with devices specially adapted to prevent thrombosis}	2013/003	. {Cabin ventilation nozzles}
11/0611	. . {with means for holding the passenger in a standing position}	13/006	. {the air being used to cool structural parts of the aircraft}
11/0612	. . {specially adapted for children}	13/02	. the air being pressurised
11/0616	. . {with ejection means}	13/04	. . Automatic control of pressure
11/0619	. . {with energy absorbing means specially adapted for mitigating impact loads for passenger seats, e.g. at a crash}	13/06	. the air being conditioned ( <a href="#">pressurising B64D 13/02</a> )
11/062	. . {Belts or other passenger restraint means for passenger seats}	2013/0603	. . {Environmental Control Systems}
11/06205	. . . {Arrangements of airbags}	2013/0607	. . . {providing hot air or liquid for deicing aircraft parts, e.g. aerodynamic surfaces or windows}
11/0621	. . . . {Airbag initiation or activation means}	2013/0611	. . . {combined with auxiliary power units (APU's)}
11/0624	. . {Arrangements of electrical connectors, e.g. for earphone, internet or electric supply}	2013/0614	. . . {with subsystems for cooling avionics}
11/0626	. . {with individual temperature or ventilation control}	2013/0618	. . . {with arrangements for reducing or managing bleed air, using another air source, e.g. ram air}
11/0627	. . {Seats combined with storage means}	2013/0622	. . . {used in combination with boundary layer control systems}
11/0629	. . . {the storage means being specially adapted for emergency equipment}	2013/0625	. . . {comprising means for distribution effusion of conditioned air in the cabin}
11/0631	. . . . {for life vests}	2013/0629	. . . {with subsystems for cooling food, catering or special loads}
11/0632	. . . . {for breathing apparatus}	2013/0633	. . . {including chemical reaction-based thermal management systems}
11/0633	. . . . {for devices other than life vests and intended for external use, e.g. parachutes or life rafts}	2013/0637	. . . {with CO <sub>2</sub> removers}
11/0636	. . . {Personal storage means or waste disposal bags}	2013/064	. . . {comprising more than one system, e.g. dual systems}
11/0638	. . {with foldable tables, trays or cup holders}	2013/0644	. . . {including electric motors or generators}
11/0639	. . {with features for adjustment or converting of seats}	2013/0648	. . . {with energy recovery means, e.g. using turbines}
11/06395	. . . {characterised by the arrangement of electric motors for adjustment}	2013/0651	. . . {comprising filters, e.g. dust filters}
11/064	. . . {Adjustable inclination or position of seats}	2013/0655	. . . {with zone or personal climate controls}
		2013/0659	. . . {comprising provisions for cooling fuel systems}
		2013/0662	. . . {with humidity control}
		2013/0666	. . . {with means for preventing icing within the ECS components}
		2013/067	. . . {with air ionizers}
		2013/0674	. . . {comprising liquid subsystems}
		2013/0677	. . . {comprising on board oxygen generator systems}
		2013/0681	. . . {with oxygen control}
		2013/0685	. . . {with ozone control}

2013/0688	. . . {with means for recirculating cabin air}	17/46	. . Closing means
2013/0692	. . . {with special provisions against smoke from cigarettes}	17/48	. . with separate pack for extractor of auxiliary parachute
2013/0696	. . . {with provisions for starting power plants}	17/50	. . formed with separate compartments for main canopy, rigging lines, or auxiliary parachute
13/08	. . the air being heated or cooled	17/52	. . Opening, e.g. manual
<b>15/00</b>	<b>De-icing or preventing icing on exterior surfaces of aircraft</b>	17/54	. . . automatic
15/02	. by ducted hot gas or liquid	17/56	. . . . responsive to barometric pressure
15/04	. . Hot gas application	17/58	. . . . responsive to time-delay mechanism
15/06	. . Liquid application	17/60	. . . . by static line
15/08	. . . exuded from surface	17/62	. Deployment
15/10	. . . sprayed over surface	17/64	. . by extractor parachute
15/12	. by electric heating (heating arrangements specially adapted for transparent or reflecting areas <a href="#">H05B 3/84</a> )	17/66	. . . attached to hem of main canopy
15/14	. . controlled cyclically along length of surface	17/68	. . . attached to apex of main canopy
15/16	. by mechanical means, e.g. pulsating mats or shoes attached to, or built into, surface	17/70	. . by springs
15/163	. . {using electro-impulsive devices}	17/72	. . by explosive or inflatable means
15/166	. . {using pneumatic boots}	17/725	. . . {by explosive means}
15/20	. Means for detecting icing or initiating de-icing	17/74	. . Sequential deployment of a plurality of canopies
15/22	. . Automatic initiation by icing detector	17/76	. . facilitated by method of folding or packing
<b>17/00</b>	<b>Parachutes (non-canopied parachutes <a href="#">B64D 19/00</a>)</b>	17/78	. in association with other load-retarding apparatus
17/02	. Canopy arrangement or construction	17/80	. in association with aircraft, e.g. for braking thereof
	<b>NOTE</b>	<b>19/00</b>	<b>Non-canopied parachutes</b>
	<a href="#">{B64D 17/025 takes precedence over B64D 17/04 - B64D 17/20}</a>	19/02	. Rotary-wing parachutes
17/025	. . {for gliding chutes}	<b>21/00</b>	<b>Testing of parachutes</b>
17/04	. . formed with two or more canopies arranged about a common axis	<b>23/00</b>	<b>Training of parachutists</b>
17/06	. . formed with two or more canopies arranged in a cluster	<b>25/00</b>	<b>Emergency apparatus or devices, not otherwise provided for</b>
17/08	. . Secondary or shock-absorbing canopies attached to load line	25/02	. Supports or holding means for living bodies
17/10	. . Ribbon construction or the like	25/04	. . Seat modifications
17/12	. . constructed to provide variable or non-uniform porosity over area of canopy	25/06	. . Harnessing
17/14	. . with skirt or air-deflecting panels	25/08	. Ejecting or escaping means
17/16	. . . secured to hem of main canopy	25/10	. . Ejector seats
17/18	. . Vent arrangement or construction	25/12	. . Ejectable capsules
17/20	. . . variable in area	25/14	. . Inflatable escape chutes
17/22	. Load suspension	25/16	. . Dinghy stowage
17/24	. . Rigging lines	25/18	. . Flotation gear
17/26	. . . attached to hem of canopy	25/20	. . Releasing of crash-position indicators
17/28	. . . attached to apex of canopy	<b>27/00</b>	<b>Arrangement or mounting of power plants in aircraft; Aircraft characterised by the type or position of power plants</b>
17/30	. . Harnesses	2027/005	. {Aircraft with an unducted turbofan comprising contra-rotating rotors, e.g. contra-rotating open rotors [CROR]}
17/32	. . . Construction of quick-release box	27/02	. Aircraft characterised by the type or position of power plants
17/34	. . adapted to control direction or rate of descent		<b>WARNING</b>
17/343	. . . {by reefing means}		Group <a href="#">B64D 27/02</a> is impacted by reclassification into groups <a href="#">B64D 27/026</a> , <a href="#">B64D 27/33</a> , <a href="#">B64D 27/357</a> , <a href="#">B64D 27/359</a> , <a href="#">B64D 31/16</a> , <a href="#">B64D 31/18</a> and <a href="#">B64D 35/021 - B64D 35/025</a> .
17/346	. . . {by anti-squid lines}		All groups listed in this Warning should be considered in order to perform a complete search.
17/36	. . incorporating friction devices or frangible connections to reduce shock loading of canopy ( <a href="#">{B64D 17/343, B64D 17/346 take precedence}</a> )		
17/38	. . Releasable fastening devices between parachute and load or pack	27/023	. . {of rocket type, e.g. for assisting taking-off or braking}
17/383	. . . {Cargo release hooks}		
17/386	. . . {Devices adapted to cut lines or straps}		
17/40	. Packs		
17/42	. . rigid		
17/44	. . . forming part of load		

- 27/026 . . {comprising different types of power plants, e.g. combination of a piston engine and a gas-turbine (Hybrid electric aircraft [B64D 27/33](#))}

**WARNING**

Group [B64D 27/026](#) is incomplete pending reclassification of documents from group [B64D 27/02](#).  
Groups [B64D 27/026](#) and [B64D 27/02](#) should be considered in order to perform a complete search.

- 27/04 . . of piston type
- 27/06 . . . within, or attached to, wings
- 27/08 . . . within, or attached to, fuselages
- 27/10 . . of gas-turbine type (jet aircraft [B64D 27/16](#))
- 27/12 . . . within, or attached to, wings
- 27/14 . . . within, or attached to, fuselages
- 27/16 . . of jet type
- 27/18 . . . within, or attached to, wings
- 27/20 . . . within, or attached to, fuselages
- 27/22 . . using atomic energy
- 27/24 . . using steam or spring force (jet aircraft [B64D 27/16](#))

**WARNING**

Group [B64D 27/24](#) is impacted by reclassification into groups [B64D 27/30](#), [B64D 27/31](#), [B64D 27/32](#), [B64D 27/33](#), [B64D 27/34](#), [B64D 27/35](#), [B64D 27/351](#), [B64D 27/353](#), [B64D 27/355](#), [B64D 27/357](#), [B64D 27/359](#), [B64D 31/16](#), [B64D 31/18](#) and [B64D 35/021 - B64D 35/025](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 27/30 . . Aircraft characterised by electric power plants

**WARNING**

Groups [B64D 27/30](#), [B64D 27/31](#), [B64D 27/32](#), [B64D 27/34](#), [B64D 27/35](#), [B64D 27/351](#) and [B64D 27/355](#) are incomplete pending reclassification of documents from group [B64D 27/24](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 27/31 . . . within, or attached to, wings
- 27/32 . . . within, or attached to, fuselages
- 27/33 . . . Hybrid electric aircraft

**WARNING**

Group [B64D 27/33](#) is incomplete pending reclassification of documents from groups [B64D 27/02](#) and [B64D 27/24](#).

Groups [B64D 27/33](#), [B64D 27/02](#) and [B64D 27/24](#) should be considered in order to perform a complete search.

- 27/34 . . . All-electric aircraft
- 27/35 . . . Arrangements for on-board electric energy production, distribution, recovery or storage
- 27/351 . . . . using energy recovery

- 27/353 . . . . using solar cells

**WARNING**

Group [B64D 27/353](#) is incomplete pending reclassification of documents from group [B64D 27/24](#).

Group [B64D 27/353](#) is also impacted by reclassification into group [B64U 50/31](#).

Groups [B64D 27/353](#), [B64D 27/24](#) and [B64U 50/31](#) should be considered in order to perform a complete search.

- 27/355 . . . . using fuel cells
- 27/357 . . . . using batteries

**WARNING**

Group [B64D 27/357](#) is incomplete pending reclassification of documents from groups [B64D 27/02](#) and [B64D 27/24](#).

Groups [B64D 27/357](#), [B64D 27/02](#), [B64D 27/24](#) should be considered in order to perform a complete search.

- 27/359 . . . . using capacitors

**WARNING**

Group [B64D 27/359](#) is incomplete pending reclassification of documents from groups [B64D 27/02](#) and [B64D 27/24](#).

Groups [B64D 27/359](#), [B64D 27/02](#) and [B64D 27/24](#) should be considered in order to perform a complete search.

- 27/40 . . Arrangements for mounting power plants in aircraft

**WARNING**

Group [B64D 27/40](#) is impacted by reclassification into groups [B64D 27/402](#), [B64D 27/404](#) and [B64D 27/406](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 27/402 . . {comprising box like supporting frames, e.g. pylons or arrangements for embracing the power plant}

**WARNING**

Group [B64D 27/402](#) is incomplete pending reclassification of documents from group [B64D 27/40](#).

Groups [B64D 27/402](#) and [B64D 27/40](#) should be considered in order to perform a complete search.

- 27/404 . . {Suspension arrangements specially adapted for supporting vertical loads}
- WARNING**
- Group [B64D 27/404](#) is incomplete pending reclassification of documents from group [B64D 27/40](#).
- Groups [B64D 27/404](#) and [B64D 27/40](#) should be considered in order to perform a complete search.
- 27/406 . . {Suspension arrangements specially adapted for supporting thrust loads, e.g. thrust links}
- WARNING**
- Group [B64D 27/406](#) is incomplete pending reclassification of documents from group [B64D 27/40](#).
- Groups [B64D 27/406](#) and [B64D 27/40](#) should be considered in order to perform a complete search.
- 29/00 Power-plant nacelles, fairings or cowlings**
- 29/02 . associated with wings
- 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 systems; Arrangement of power plant control systems in aircraft**
- WARNING**
- Group [B64D 31/00](#) is impacted by reclassification into groups [B64D 31/16](#) and [B64D 31/18](#).
- Groups [B64D 31/00](#), [B64D 31/16](#) and [B64D 31/18](#) should be considered in order to perform a complete search.
- 31/02 . Initiating means
- 31/04 . . actuated personally
- 31/06 . . actuated automatically
- WARNING**
- Group [B64D 31/06](#) is impacted by reclassification into group [B64D 31/09](#).
- Groups [B64D 31/06](#) and [B64D 31/09](#) should be considered in order to perform a complete search.
- 31/08 . . . for keeping cruising speed constant
- 31/09 . . . in response to power plant failure
- WARNING**
- Group [B64D 31/09](#) is incomplete pending reclassification of documents from group [B64D 31/06](#).
- Groups [B64D 31/09](#) and [B64D 31/06](#) should be considered in order to perform a complete search.
- 31/10 . . . . for preventing asymmetric thrust
- 31/12 . . . for equalising or synchronising power plants
- 31/14 . Transmitting means between initiating means and power plants
- 31/16 . for electric power plants
- WARNING**
- Groups [B64D 31/16](#) and [B64D 31/18](#) are incomplete pending reclassification of documents from groups [B64D 27/02](#), [B64D 27/24](#) and [B64D 31/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 31/18 . . for hybrid-electric power plants
- 33/00 Arrangement in aircraft of power plant parts or auxiliaries not otherwise provided for**
- 33/02 . of combustion air intakes
- 2033/0206 . . {comprising noise reduction means, e.g. acoustic liners}
- 2033/0213 . . {specially adapted for auxiliary power units (APU's)}
- 2033/022 . . {comprising bird or foreign object protections}
- 2033/0226 . . {comprising boundary layer control means}
- 2033/0233 . . {comprising de-icing means}
- 2033/024 . . {comprising cooling means}
- 2033/0246 . . {comprising particle separators}
- 2033/0253 . . {specially adapted for particular type of aircraft}
- 2033/026 . . . {for supersonic or hypersonic aircraft}
- 2033/0266 . . {specially adapted for particular type of power plants}
- 2033/0273 . . . {for jet engines}
- 2033/028 . . . {for piston engines}
- 2033/0286 . . . {for turbofan engines}
- 2033/0293 . . . {for turboprop engines}
- 33/04 . of exhaust outlets or jet pipes
- 2033/045 . . {comprising infrared suppressors}
- 33/06 . . {Silencing exhaust or propulsion jets}
- 33/08 . of power plant cooling systems
- 33/10 . . Radiator arrangement
- 33/12 . . . of retractable type
- 35/00 Transmitting power from power plants to propellers or rotors; Arrangements of transmissions**
- 35/02 . specially adapted for specific power plants
- WARNING**
- Group [B64D 35/02](#) is impacted by reclassification into groups [B64D 35/021](#), [B64D 35/022](#), [B64D 35/023](#), [B64D 35/024](#), [B64D 35/025](#) and [B64D 35/026](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 35/021 . . for electric power plants
- WARNING**
- Groups [B64D 35/021](#), [B64D 35/022](#), [B64D 35/023](#), [B64D 35/024](#) and [B64D 35/025](#) are incomplete pending reclassification of documents from groups [B64D 27/02](#), [B64D 27/24](#) and [B64D 35/02](#).
- All groups listed in this Warning should be considered in order to perform a complete search.

- 35/022 . . . of hybrid-electric type
- WARNING**
- Group [B64D 35/022](#) is incomplete pending reclassification of documents from group [B64D 35/08](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 35/023 . . . . of series-parallel type
- WARNING**
- Group [B64D 35/023](#) is incomplete pending reclassification of documents from group [B64D 35/08](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 35/024 . . . . of series type
- WARNING**
- Group [B64D 35/024](#) is incomplete pending reclassification of documents from group [B64D 35/08](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 35/025 . . . . of parallel type
- WARNING**
- Group [B64D 35/025](#) is incomplete pending reclassification of documents from group [B64D 35/08](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 35/026 . . . the electric power plant being integral with the propeller or rotor
- WARNING**
- Group [B64D 35/026](#) is incomplete pending reclassification of documents from group [B64D 35/02](#).
- Groups [B64D 35/026](#) and [B64D 35/02](#) should be considered in order to perform a complete search.
- 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 (for hybrid-electric power plants [B64D 35/022](#))
- WARNING**
- Group [B64D 35/08](#) is impacted by reclassification into groups [B64D 35/023](#), [B64D 35/025](#), [B64D 35/024](#) and [B64D 35/022](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 37/00 Arrangements in connection with fuel supply for power plant (refuelling during flight [B64D 39/00](#))**
- 37/005 . {Accessories not provided for in the groups [B64D 37/02](#) - [B64D 37/28](#)}
- 37/02 . Tanks (tanks constructed integrally with aircraft wings [B64C 3/34](#))
- 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 17/10](#))
- 37/16 . . . Filling systems (ground installations for fuelling aircraft [B64F 1/28](#))
- 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
- 2037/325 . . {Fuel tanks with provisions for reduction hydraulic ram shocks due to projectile impacts}
- 37/34 . Conditioning fuel, e.g. heating (during filling [B64D 37/18](#))
- 39/00 Refuelling during flight**
- 39/02 . Means for paying-in or out hose
- 39/04 . Adaptations of hose construction
- 39/06 . Connecting hose to aircraft; Disconnecting hose therefrom
- 41/00 Power installations for auxiliary purposes**
- 2041/002 . {Mounting arrangements for auxiliary power units (APU's)}
- 2041/005 . {Fuel cells}
- 41/007 . {Ram air turbines}
- 43/00 Arrangements or adaptations of instruments**
- 43/02 . for indicating aircraft speed or stalling conditions
- 45/00 Aircraft indicators or protectors not otherwise provided for**
- 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}
- 45/0018 . . {means on aircraft for restricting unauthorized access to the aircraft}
- 45/0021 . . {means for restricting access to flight deck}
- 45/0026 . . . {by creating a secure space between the flight deck and cabin}
- 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}

## B64D

- 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}
- 45/0061 . . {by protecting cabin or cargo hold from bombs}
- 45/0063 . . {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}
- 2045/0085 . {Devices for aircraft health monitoring, e.g.  
monitoring flutter or vibration}
- 2045/009 . {Fire detection or protection; Erosion protection,  
e.g. from airborne particles}
- 2045/0095 . {Devices specially adapted to avoid bird strike}
- 45/02 . Lightning protectors; Static dischargers
- 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

### WARNING

Group [B64D 47/08](#) is impacted by reclassification into group [B64U 20/87](#).

Groups [B64D 47/08](#) and [B64U 20/87](#) should be considered in order to perform a complete search.

- 2201/00 Airbags mounted in aircraft for any use**
- 2203/00 Aircraft or airfield lights using LEDs**
- 2205/00 Aircraft with means for ground manoeuvring, such as taxiing, using an auxiliary thrust system, e.g. jet-engines, propellers or compressed air**
- 2221/00 Electric power distribution systems onboard aircraft**
- 2231/00 Emergency oxygen systems**
- 2231/02 . Supply or distribution systems
- 2231/025 . . Oxygen masks; Mask storages; Features related to mask deployment
- 2241/00 NACA type air intakes**