CPC COOPERATIVE PATENT CLASSIFICATION

В PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

TRANSPORTING

B64 AIRCRAFT; AVIATION; COSMONAUTICS

B64C AEROPLANES; HELICOPTERS

NOTE

As far as possible, classification is made according to constructional features; classification according to particular kinds of aircraft is normally regarded as being of secondary importance, except in cases where this is considered to be the characteristic feature.

WARNINGS

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

B64C 35/02 B64C 35/00 covered by

2. {In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the

Aircraft structures or fairings

1/00 Fuselages; Constructional features common to fuselages, wings, stabilising surfaces or the like

WARNING

Group B64C 1/00 is impacted by reclassification

into groups <u>B64U 10/00</u> - <u>B64U 10/80</u>,

<u>B64U 20/00</u> - <u>B64U 20/98</u>,

B64U 30/00 - B64U 30/40,

B64U 40/00 - B64U 40/20,

B64U 50/00 - B64U 50/39,

B64U 60/00 - B64U 60/70,

B64U 70/00 - B64U 70/99 and

B64U 80/00 - B64U 80/86.

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

1/0009 • {Aerodynamic aspects}

WARNING

Group B64C 1/0009 is impacted

by reclassification into groups

B64U 10/00 - B64U 10/80,

B64U 20/00 - B64U 20/98,

B64U 30/00 - B64U 30/40,

B64U 40/00 - B64U 40/20,

B64U 50/00 - B64U 50/39,

B64U 60/00 - B64U 60/70,

B64U 70/00 - B64U 70/99 and

B64U 80/00 - B64U 80/86.

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

2001/0018 • {comprising two decks adapted for carrying passengers only}

2001/0027 . . {arranged one above the other}

2001/0036 . . {arranged side by side at the same level}

2001/0045 • {Fuselages characterised by special shapes}

2001/0054 • {Fuselage structures substantially made from

particular materials} 2001/0063 . . {from wood}

2001/0072 • • {from composite materials}

2001/0081 . . {from metallic materials}

2001/009 • {comprising decompression panels or valves for

pressure equalisation in fuselages or floors}

1/06 • Frames; Stringers; Longerons {; Fuselage sections}

WARNING

Group B64C 1/06 is impacted by reclassification

into groups <u>B64U 10/00</u> - <u>B64U 10/80</u>,

B64U 20/00 - B64U 20/98,

B64U 30/00-B64U 30/40,

B64U 40/00 - B64U 40/20,

B64U 50/00 - B64U 50/39,

B64U 60/00-B64U 60/70,

B64U 70/00 - B64U 70/99 and

B64U 80/00 - B64U 80/86.

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

Aircraft structures or fairings **B64C**

1/061 • {Frames}

WARNING

Group B64C 1/061 is impacted by reclassification into groups B64U 10/00 - B64U 10/80, B64U 20/00 - B64U 20/98, B64U 30/00-B64U 30/40, B64U 40/00 - B64U 40/20, B64U 50/00 - B64U 50/39, B64U 60/00-B64U 60/70, B64U 70/00 - B64U 70/99 and B64U 80/00 - B64U 80/86.

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

1/062 . . . {specially adapted to absorb crash loads}

WARNING

Group B64C 1/062 is impacted by reclassification into groups B64U 10/00 - B64U 10/80, B64U 20/00 - B64U 20/98, B64U 30/00 - B64U 30/40, B64U 40/00-B64U 40/20, B64U 50/00 - B64U 50/39, B64U 60/00 - B64U 60/70, B64U 70/00 - B64U 70/99 and B64U 80/00 - B64U 80/86.

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

1/063 {Folding or collapsing to reduce overall dimensions, e.g. foldable tail booms}

WARNING

Group B64C 1/063 is impacted by reclassification into groups B64U 10/00 - B64U 10/80, B64U 20/00 - B64U 20/98, B64U 30/00 - B64U 30/40, B64U 40/00 - B64U 40/20, B64U 50/00 - B64U 50/39, B64U 60/00 - B64U 60/70, B64U 70/00 - B64U 70/99 and B64U 80/00 - B64U 80/86

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

1/064 . . {Stringers; Longerons}

WARNING

Group B64C 1/064 is impacted by reclassification into groups B64U 10/00 - B64U 10/80, B64U 20/00 - B64U 20/98, <u>B64U 30/00</u> - <u>B64U 30/40</u>, B64U 40/00 - B64U 40/20, B64U 50/00 - B64U 50/39, B64U 60/00 - B64U 60/70, B64U 70/00 - B64U 70/99 and B64U 80/00 - B64U 80/86

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

1/065 • • {Spars}

WARNING

Group B64C 1/065 is impacted by reclassification into groups B64U 10/00 - B64U 10/80, B64U 20/00 - B64U 20/98, B64U 30/00 - B64U 30/40, B64U 40/00 - B64U 40/20, B64U 50/00 - B64U 50/39, B64U 60/00 - B64U 60/70. B64U 70/00 - B64U 70/99 and B64U 80/00 - B64U 80/86.

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

1/066 • { Interior liners }

1/067 . . . {comprising means for preventing icing or condensation conditions}

1/068 • • {Fuselage sections}

WARNING

Group B64C 1/068 is impacted by reclassification into groups B64U 10/00 - B64U 10/80, B64U 20/00 - B64U 20/98, B64U 30/00 - B64U 30/40, B64U 40/00 - B64U 40/20, B64U 50/00 - B64U 50/39, B64U 60/00 - B64U 60/70, B64U 70/00 - B64U 70/99 and B64U 80/00 - B64U 80/86.

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

1/0683 . . {Nose cones} 1/0685 . . . {Tail cones}

Aircraft structures or fairings

B64C

1/069 1/30 . . . {Joining arrangements therefor} . Parts of fuselage relatively movable to reduce overall dimensions of aircraft WARNING WARNING Group B64C 1/069 is impacted by reclassification into groups Group B64C 1/30 is impacted by reclassification B64U 10/00 - B64U 10/80, into group **B64U** 20/50. B64U 20/00 - B64U 20/98, Groups B64C 1/30 and B64U 20/50 should B64U 30/00 - B64U 30/40, be considered in order to perform a complete B64U 40/00 - B64U 40/20, search. B64U 50/00 - B64U 50/39, B64U 60/00 - B64U 60/70, 1/32 . Severable or jettisonable parts of fuselage B64U 70/00 - B64U 70/99 and facilitating emergency escape B64U 80/00 - B64U 80/86. 1/34 . comprising inflatable structural components 1/36 . adapted to receive antennas or radomes All groups listed in this Warning should be considered in order to perform a complete 1/38 . Constructions adapted to reduce effects of search. aerodynamic or other external heating 1/40 • Sound or heat insulation {, e.g. using insulation 1/08 . . Geodetic or other open-frame structures blankets } 1/10 . . Bulkheads 1/403 . . {Arrangement of fasteners specially adapted 1/12 . Construction or attachment of skin panels therefor, e.g. of clips} 1/14 . Windows; Doors; Hatch covers or access 1/406 . . . {in combination with supports for lines, e.g. for panels; Surrounding frame structures; Canopies; pipes or cables} Windscreens {accessories therefor, e.g. pressure 3/00 Wings (ornithopter wings B64C 33/02) sensors, water deflectors, hinges, seals, handles, latches, windscreen wipers}(fairings movable . Shape of wings 3/10 in conjunction with undercarriage elements 3/14 . . Aerofoil profile B64C 25/16; bomb doors B64D 1/06) 3/141 . . . {Circulation Control Airfoils} 1/1407 . . {Doors; surrounding frames} • • { with variable camber along the airfoil chord} 2003/142 1/1415 • • {Cargo doors, e.g. incorporating ramps} 2003/143 • • • {comprising interior channels} 1/1423 . . . {Passenger doors} 2003/144 • • • {including a flat surface on either the extrados 1/143 • • • {of the plug type} or intrados } 1/1438 • • • { of the sliding type } 2003/145 • • • {comprising 'Gurney' flaps} 1/1446 . . . {Inspection hatches (for engine cowls • • {comprising leading edges of particular shape} 2003/146 B64D 29/08)} • • {comprising trailing edges of particular shape} 2003/147 1/1453 . . . {Drain masts} 2003/148 • . . {comprising protuberances, e.g. for modifying 1/1461 . . . {Structures of doors or surrounding frames} boundary layer flow} 1/1469 • • • {Doors between cockpit and cabin} 2003/149 • • • {for supercritical or transonic flow} 1/1476 . . {Canopies; Windscreens or similar transparent 3/16 . . Frontal aspect elements } 3/18 . Spars; Ribs; Stringers 1/1484 • • • {Windows (<u>B64C 1/1492</u> takes precedence)} 3/182 • • {Stringers, longerons} 1/1492 • • • {Structure and mounting of the transparent 3/185 • • {Spars} elements in the window or windscreen} 3/187 . . {Ribs} 1/16 . specially adapted for mounting power plant 3/20 . Integral or sandwich constructions 1/18 3/22 • Geodetic or other open-frame structures 1/20 . . specially adapted for freight 3/24 . Moulded or cast structures 1/22 . Other structures integral with fuselages to facilitate 3/26 . Construction, shape, or attachment of separate skins, loading {, e.g. cargo bays, cranes} e.g. panels 1/24 . Steps mounted on, and retractable within, fuselages 3/28 . Leading or trailing edges attached to primary 1/26 . Attaching the wing or tail units or stabilising structures, e.g. forming fixed slots surfaces 3/30 . comprising inflatable structural components 3/32 . specially adapted for mounting power plant WARNING 3/34 Tanks constructed integrally with wings, e.g. for Group B64C 1/26 is impacted by fuel or water reclassification into groups B64U 20/50 and 3/36 . Structures adapted to reduce effects of aerodynamic <u>B64U 30/12</u> - <u>B64U 30/16</u>. or other external heating Groups B64C 1/26, B64U 20/50 and 3/38 . Adjustment of complete wings or parts thereof B64U 30/12 - B64U 30/16 should be considered 3/385 . . {Variable incidence wings} in order to perform a complete search. 3/40 . . Varying angle of sweep 1/28 . Parts of fuselage relatively movable to improve 3/42 . . Adjusting about chordwise axes pilots view 3/44 . . Varying camber 2003/445 {by changing shape according to the speed, e.g. by morphing} 3/46 . . . by inflatable elements 3/48 . . . by relatively-movable parts of wing structures

Aircraft structures or fairings **B64C**

3/50	• • • by leading or trailing edge flaps	9/32	 Air braking surfaces
3/52	Warping	9/323	• • {associated with wings}
3/54	Varying in area	9/326	• • {associated with fuselages}
2003/543	• {by changing shape according to the speed, e.g.	9/34	 collapsing or retracting against or within other
	by morphing}		surfaces or other members
3/546	• • • {by foldable elements}	9/36	the members being fuselages or nacelles
3/56	 Folding or collapsing to reduce overall 	9/38	. Jet flaps
	dimensions of aircraft	11/00	Propollors of a of dusted types Footunes common
	WARNING	11/00	Propellers, e.g. of ducted type; Features common to propellers and rotors for rotorcraft
	Group P64C 2/56 is imposted by		
	Group <u>B64C 3/56</u> is impacted by reclassification into groups <u>B64U 20/50</u> and		NOTE
	B64U 30/12 - B64U 30/16.		Documents classified in
	Groups <u>B64C 3/56</u> , <u>B64U 20/50</u> and		<u>B64C 11/001</u> - <u>B64C 11/008</u> which also
	B64U 30/12 - B64U 30/16 should be		contain relevant information, covered by other
	considered in order to perform a complete		subgroups of $\frac{B64C\ 11/00}{B64C\ 11/00}$, are also classified in the
	search.		appropriate subgroup of <u>B64C 11/00</u>
- 1		11/001	• {Shrouded propellers}
3/58	• provided with fences or spoilers (adjustable for	11/002	• {Braking propellers, e.g. for measuring the power
	control purposes <u>B64C 9/00</u>)		output of an engine}
5/00	Stabilising surfaces	11/003	• {Variable-diameter propellers; Mechanisms
5/02	• Tailplanes		therefor}
5/04	Noseplanes	11/005	• {Spiral-shaped propellers}
5/06	• Fins (<u>B64C 5/08</u> takes precedence)	11/006	• {Paddle wheels}
5/08	 mounted on, or supported by, wings 	11/007	• {Propulsive discs, i.e. discs having the surface
5/10	 adjustable 		specially adapted for propulsion purposes}
5/12	for retraction against or within fuselage or nacelle	11/008	• {characterised by vibration absorbing or balancing
5/14	Varying angle of sweep		means}
5/16	about spanwise axes	11/02	Hub construction
5/18	in area	11/04	Blade mountings
5 /00		11/06	for variable-pitch blades
7/00 7/02	Structures or fairings not otherwise provided for	11/065	• • • {variable only when stationary}
7/02	. Nacelles	11/08	for non-adjustable blades
		11/10	rigid
		11/12	flexible
9/00	Adjustable control surfaces or members, e.g.	11/14	Spinners
	rudders (trimming stabilising surfaces <u>B64C 5/10</u>)	11/16	. Blades
2009/005	• {Ailerons}	11/18	Aerodynamic features
9/02	 Mounting or supporting thereof 	11/20	Constructional features
9/04	 with compound dependent movements 	11/205	• • • {for protecting blades, e.g. coating}
9/06	 with two or more independent movements 	11/22	Solid blades
9/08	 bodily displaceable 	11/24	Hollow blades
9/10	 one surface adjusted by movement of another, e.g. 	11/26	Fabricated blades
	servo tabs (<u>B64C 9/04</u> takes precedence; adjusting	11/28	Collapsible or foldable blades
	surfaces of different type or function <u>B64C 9/12</u>)	11/30	Blade pitch-changing mechanisms
9/12	surfaces of different type or function being		<u>NOTE</u>
0/14	simultaneously adjusted		Groups <u>B64C 11/301</u> , <u>B64C 11/303</u> ,
9/14	• forming slots		B64C 11/305 and B64C 11/306 take precedence
2009/143	(comprising independently adjustable elements for closing or opening the slot between the main		over <u>B64C 11/32</u> , <u>B64C 11/38</u> and <u>B64C 11/44</u>
	wing and leading or trailing edge flaps}	44/004	
9/146	• • {at an other wing location than the rear or the	11/301	• • {characterised by blade position indicating
<i>)/</i> 140	front (wings provided with fixed fences or	11/202	means}
	spoilers <u>B64C 3/58</u>)}	11/303	• (characterised by comprising a governor)
9/16	. at the rear of the wing	11/305	 {characterised by being influenced by other control systems, e.g. fuel supply}
9/18	by single flaps	11/306	• {specially adapted for contrarotating propellers}
9/20	by multiple flaps	11/300	. (specially adapted for contrarotating properties) (automatic)
9/22	• at the front of the wing	11/308	mechanical
9/24	• • by single flap	11/32	 • • • {comprising feathering, braking or stopping
9/26	• • by multiple flaps	11/343	systems}
9/28	by flaps at both the front and rear of the wing	11/34	automatic
	operating in unison	11/343	• • • • • • • • • • • • • • • • • • •
9/30	Balancing hinged surfaces, e.g. dynamically	11,545	aerodynamic drag acting on the blades}
9/30	• Balancing imigea surfaces, e.g. ay nameany		

11/346	• • • • {actuated by the centrifugal force or the	13/505	• • • {having duplication or stand-by provisions}
	aerodynamic drag acting on auxiliary masses	13/506	• • • { overriding of personal controls; with
	or surfaces}		automatic return to inoperative position}
11/36	• • • non-automatic	13/507	• • • {with artificial feel}
11/38	fluid, e.g. hydraulic	4 = 100	And I do not be a second of the second of th
11/385	• • • {comprising feathering, braking or stopping systems}	15/00	Attitude, flight direction, or altitude control by jet reaction
11/40		15/02	 the jets being propulsion jets
11/40	• • automatic	15/12	the power plant being tiltable
11/42	• • non-automatic	15/14	• the jets being other than main propulsion jets (jet
11/44	electric		flaps <u>B64C 9/38</u>)
11/46	• Arrangements of, or constructional features peculiar		
	to, multiple propellers {(<u>B64C 11/306</u> takes	17/00	Aircraft stabilisation not otherwise provided for
	precedence)}	17/02	 by gravity or inertia-actuated apparatus
11/48	Units of two or more coaxial propellers	17/04	• • by pendular bodies
11/50	 Phase synchronisation between multiple 	17/06	by gyroscopic apparatus
	propellers	17/08	 by ballast supply or discharge
13/00	Control systems or transmitting systems for	17/10	Transferring fuel to adjust trim
13/00	actuating flying-control surfaces, lift-increasing		•
		19/00	Aircraft control not otherwise provided for
12/02	flaps, air brakes, or spoilers	19/02	Conjoint controls
13/02	. Initiating means		
13/04	actuated personally		air flow over aircraft surfaces, not otherwise
13/042	• • · {operated by hand}	provided for	<u>t</u>
13/0421	• • • {control sticks for primary flight controls}	21/00	Influencia cia flora como cincue fe confesso ha
13/0423	• • • { yokes or steering wheels for primary flight controls}	21/00	Influencing air flow over aircraft surfaces by affecting boundary layer flow
13/0425	• • • • {for actuating trailing or leading edge flaps,		WARNING
	air brakes or spoilers}		
13/0427	• • • {for actuating trim}		Group <u>B64C 21/00</u> is impacted by reclassification
13/044	• • {operated by feet, e.g. pedals}		into group <u>B64C 21/01</u> .
13/06	adjustable to suit individual persons		Groups <u>B64C 21/00</u> and <u>B64C 21/01</u> should be
	Trimming zero positions		considered in order to perform a complete search.
13/08		21/01	Douglass loves in acction [DI II meanulainn
13/10	comprising warning devices	21/01	Boundary layer ingestion [BLI] propulsion
13/12	Dual control apparatus		WARNING
13/14	lockable		Group B64C 21/01 is incomplete pending
13/16	 actuated automatically, e.g. responsive to gust detectors 		reclassification of documents from groups
13/18	using automatic pilot		B64C 21/00, B64C 21/025, B64C 21/04,
13/20	using radiated signals		<u>B64C 21/06</u> and <u>B64C 21/08</u> .
13/22	readily revertible to personal control		All groups listed in this Warning should be
13/24	Transmitting means		considered in order to perform a complete
13/26	without power amplification or where power		search.
13,20	amplification is irrelevant	21/02	• by use of slot, ducts, porous areas or the like
13/28	mechanical	21/025	 by use of slot, duets, polous areas of the like • {for simultaneous blowing and sucking}
13/30	using cable, chain, or rod mechanisms	21/023	• • {for simultaneous blowing and sucking}
			WARNING
13/32	using cam mechanisms		Group B64C 21/025 is impacted by
13/34	using toothed gearing		reclassification into group B64C 21/01.
13/341	• • • {having duplication or stand-by provisions}		
13/343	• • • { overriding of personal controls; with automatic return to inoperative position}		All groups listed in this Warning should be considered in order to perform a complete
13/345	• • • { with artificial feel }		search.
13/36	fluid		
13/38	with power amplification	21/04	• • for blowing
			WARNING
13/40	using fluid pressure		
13/42	having duplication or stand-by provisions		Group <u>B64C 21/04</u> is incomplete pending
13/44	overriding of personal controls; with		reclassification of documents from group
	automatic return to inoperative position		<u>B64C 21/08</u> .
13/46	with artificial feel		Group $\underline{B64C\ 21/04}$ is also impacted by
13/48	characterised by the fluid being gaseous		reclassification into group <u>B64C 21/01</u> .
13/50	using electrical energy		All groups listed in this Warning should be
13/503	• • • {Fly-by-Wire}		considered in order to perform a complete
13/504	• • • • {using electro-hydrostatic actuators		search.
	[EHA's]}		

21/06	• • for sucking (BLI propulsion <u>B64C 21/01</u>)	25/12	sideways
21,00		2025/125	{into the fuselage, e.g. main landing gear
	WARNING		pivotally retracting into or extending out
	Group <u>B64C 21/06</u> is incomplete pending		of the fuselage}
	reclassification of documents from group	25/14	fore-and-aft
	<u>B64C 21/08</u> .	25/16	• • • Fairings movable in conjunction with
	Group <u>B64C 21/06</u> is also impacted by		undercarriage elements
	reclassification into group <u>B64C 21/01</u> .	25/18	Operating mechanisms
	All groups listed in this Warning should be	25/20	mechanical
	considered in order to perform a complete search.	25/22	fluid
	search.	25/24	electric
21/08	adjustable	25/26	Control or locking systems therefor
	WARNING	25/28	• • • • with indicating or warning devices
		25/30	emergency actuated
	Group B64C 21/08 is impacted by	25/32	 characterised by elements which contact the ground or similar surface (arrester hooks <u>B64C 25/68</u>)
	reclassification into group <u>B64C 21/04</u> , <u>B64C 21/06</u> and <u>B64C 21/01</u> .	2025/325	• • {specially adapted for helicopters}
	All groups listed in this Warning should be	25/34	wheeled type, e.g. multi-wheeled bogies
	considered in order to perform a complete	2025/345	{Multi-wheel bogies having one or more
	search.	2023/343	steering axes}
	344241	25/36	Arrangements or adaptations of wheels, tyres or
21/10	 using other surface properties, e.g. roughness 		axles in general
23/00	Influencing air flow over aircraft surfaces, not	25/38	endless-track type
25/00	otherwise provided for	25/40	the elements being rotated before touch-down
23/005	• {by other means not covered by groups	25/405	• • {Powered wheels, e.g. for taxing}
	<u>B64C 23/02</u> - <u>B64C 23/08</u> , e.g. by electric charges,	25/42	Arrangement or adaptation of brakes
	magnetic panels, piezoelectric elements, static	25/423	• • • {Braking devices acting by reaction of gaseous
	charges or ultrasounds}		medium}
23/02	by means of rotating members of cylindrical or similar form	25/426	• • • {Braking devices providing an automatic
23/04		25/44	sequence of braking }
23/04	by generating shock wavesby generating vortices		Actuating mechanisms
23/065	. (at the wing tips)	25/445	• • • {Brake regulators for preventing somersaulting}
23/069	. {at the wing tips} {using one or more wing tip airfoil devices,	25/46	Brake regulators for preventing skidding or
23/009	e.g. winglets, splines, wing tip fences or raked	23/40	aircraft somersaulting
	wingtips}	25/48	differentially operated for steering purposes
23/072	• • • {the wing tip airfoil devices being moveable	25/50	Steerable undercarriages; Shimmy-damping
	in their entirety}	25/505	• • {Shimmy damping}
23/076	{the wing tip airfoil devices comprising one	25/52	Skis or runners
	or more separate moveable members thereon	25/54	• Floats
	affecting the vortices, e.g. flaps}	25/56	inflatable
23/08	 using Magnus effect 	25/58	Arrangements or adaptations of shock-absorbers
			or springs (shimmy-dampers <u>B64C 25/50</u>)
-		25/60	Oleo legs
25/00	Alighting gear (air-cushion alighting gear	25/62	Spring shock-absorbers; Springs
25/00	B60V 3/08)	25/64	using rubber or like elements
25/001	• {Devices not provided for in the groups	25/66	Convertible alighting gear; Combinations of
23,001	B64C 25/02 - B64C 25/68}		different kinds of ground or like engaging
2025/003	. • {Means for reducing landing gear noise, or		elements
	turbulent flow around it, e.g. landing gear doors	25/68	Arrester hooks
	used as deflectors}	Aircraft kind	ds ar components not otherwise provided for
2025/005	{Tail skids for fuselage tail strike protection on	AH CI AH KIH	ds or components not otherwise provided for
	tricycle landing gear aircraft}	27/00	Rotorcraft; Rotors peculiar thereto
2025/006	• • {Landing gear legs comprising torque arms}	27/001	• {Vibration damping devices}
2025/008	• • {Comprising means for modifying their length,	2027/002	• • {mounted between the rotor drive and the
	e.g. for kneeling, for jumping, or for leveling the		fuselage}
25/02	aircraft}	2027/003	• • {mounted on rotor hub, e.g. a rotary force
25/02 25/04	Undercarriages Arrangement or disposition on circusts		generator}
25/04 25/06	Arrangement or disposition on aircraft fixed.	2027/004	• • {using actuators, e.g. active systems}
25/06	fixed	2027/005	• • {using suspended masses}
25/08	. non-fixed, e.g. jettisonable	27/006	• {Safety devices}
25/10	• • • retractable, foldable, or the like	27/007	• • {adapted for detection of blade cracks}

27/008 27/02	{Rotors tracking or balancing devices}Gyroplanes	27/20	• Rotorcraft characterised by having shrouded rotors, e.g. flying platforms
27/021	• • {Rotor or rotor head construction (for helicopters		WARNING
27/022	<u>B64C 27/32</u>)}		Group B64C 27/20 is impacted
27/022	{Devices for folding or adjusting the blades}		by reclassification into groups
27/023	• • • {Construction of the blades; Coating of the		B64U 10/00 - B64U 10/80,
25/02/	blades}		B64U 20/00 - B64U 20/98,
27/024	{Devices for shifting the rotor axis}		B64U 30/00 - B64U 30/40,
27/025	• • • {Rotor drives, in particular for taking off;		B64U 40/00 - B64U 40/20,
	Combination of autorotation rotors and driven		<u>B64U 50/00</u> - <u>B64U 50/39</u> ,
25/02/	rotors}		<u>B64U 60/00</u> - <u>B64U 60/70</u> ,
27/026	{Devices for converting a fixed wing into an		<u>B64U 70/00</u> - <u>B64U 70/99</u> and
27/027	autorotation rotor and viceversa}		<u>B64U 80/00</u> - <u>B64U 80/86</u> .
27/027	• • {Control devices using other means than the		All groups listed in this Warning should be
27/029	rotor}		considered in order to perform a complete
27/028	• {Other constructional elements; Rotor balancing}		search.
27/04	. Helicopters	27/22	• Compound rotorcraft, i.e. aircraft using in flight the
27/06	• with single rotor	21122	features of both aeroplane and rotorcraft
27/08	• • with two or more rotors	27/24	• with rotor blades fixed in flight to act as lifting
	WARNING	21124	surfaces
	Group B64C 27/08 is impacted	27/26	characterised by provision of fixed wings
	by reclassification into groups	27/28	• • with forward-propulsion propellers pivotable to
	<u>B64U 10/00</u> - <u>B64U 10/80</u> ,		act as lifting rotors
	<u>B64U 20/00</u> - <u>B64U 20/98</u> ,	27/30	• • with provision for reducing drag of inoperative
	<u>B64U 30/00</u> - <u>B64U 40/00</u> ,		rotor
	<u>B64U 40/00</u> - <u>B64U 40/20</u> , <u>B64U 50/00</u> - <u>B64U 50/39</u> ,	27/32	. Rotors
	B64U 60/00 - B64U 60/70,	27/322	• • {Blade travel limiting devices, e.g. droop stops}
	B64U 70/00 - B64U 70/99 and	27/325	• • {Circulation-control rotors}
	B64U 80/00 - B64U 80/86.	27/327	• • {Retention means relieving the stress from the
	All groups listed in this Warning should be		arm, e.g. tie-bars}
	considered in order to perform a complete	27/33	having flexing arms
	search.	27/35	having elastomeric joints
		27/37	having articulated joints
27/10	arranged coaxially	27/39	• • • with individually articulated blades, i.e. with
	<u>WARNING</u>	27/41	flapping or drag hinges with flapping hinge or universal joint, common
	Group B64C 27/10 is impacted	2//41	to the blades
	by reclassification into groups	27/43	• • • see-saw type, i.e. two-bladed rotor
	<u>B64U 10/00</u> - <u>B64U 10/80</u> ,	27/45	with a feathering hinge only
	<u>B64U 20/00</u> - <u>B64U 20/98</u> ,	27/46	. Blades
	<u>B64U 30/00</u> - <u>B64U 30/40</u> ,	27/463	{Blade tips}
	<u>B64U 40/00</u> - <u>B64U 40/20</u> ,	27/467	Aerodynamic features
	<u>B64U 50/00</u> - <u>B64U 50/39</u> ,	27/473	Constructional features
	<u>B64U 60/00</u> - <u>B64U 60/70</u> ,	2027/4733	{Rotor blades substantially made from
	<u>B64U 70/00</u> - <u>B64U 70/99</u> and B64U 80/00 - B64U 80/86.	2027/4733	particular materials}
		2027/4736	
	All groups listed in this Warning should be	27/48	Root attachment to rotor head
	considered in order to perform a complete search.	27/50	Blades foldable to facilitate stowage of
	search.	27/30	aircraft
27/12	Rotor drives	27/51	Damping of blade movements
2027/125	• • {including toroidal transmissions, e.g. of the	27/52	• Tilting of rotor bodily relative to fuselage (of see-
	CVT type}		saw type construction <u>B64C 27/43</u>)
27/14	Direct drive between power plant and rotor hub	27/54	. Mechanisms for controlling blade adjustment or
27/16	 Drive of rotors by means, e.g. propellers, mounted on rotor blades 		movement relative to rotor head, e.g. lag-lead movement
27/18	the means being jet-reaction apparatus	27/56	characterised by the control initiating means, e.g.
		27/57	manually actuated
		27/57	 automatic or condition responsive, e.g. responsive to rotor speed, torque or thrust
		27/58	• Transmitting means, e.g. interrelated with initiating means or means acting on blades (means acting on blades <u>B64C 27/72</u>)

27/59	mechanical	29/0025	• • • {the propellers being fixed relative to the
27/605	including swash plate, spider or cam	25/10023	fuselage}
27,000	mechanisms	29/0033	• • • {the propellers being tiltable relative to the
27/615	including flaps mounted on blades		fuselage}
27/625	including rotating masses or servo rotors	29/0041	• • {the lift during taking-off being created by jet
27/635	specially for controlling lag-lead movements		motors}
	of blades	29/005	• • • {the motors being fixed relative to the
27/64	using fluid pressure, e.g. having fluid power		fuselage}
	amplification	29/0058	• • • {with vertical jet}
27/68	• • • using electrical energy, e.g. having electrical	29/0066	• • • {with horizontal jet and jet deflector}
25/52	power amplification	29/0075	• • • {the motors being tiltable relative to the
27/72	. Means acting on blades	20/0092	fuselage }
2027/7205	• • • {on each blade individually, e.g. individual blade control [IBC]}	29/0083	 {the lift during taking-off being created by several motors of different type}
2027/7211	• • • {without flaps}	29/0091	• {Accessories not provided for elsewhere}
	{using one actuator per blade}	29/02	 having its flight directional axis vertical when
	{using one detactor per order}		grounded
	{using blowing slots actuated by	29/04	characterised by jet-reaction propulsion
	piezoelectric actuators}	30/00	Supercania type sinereft
2027/7233	{using higher-harmonic control [HHC]}	30/00	Supersonic type aircraft
2027/7238	{by controlling existing swash plate	31/00	Aircraft intended to be sustained without power
	actuators}		plant; Powered hang-glider-type aircraft;
	• • • • {by using dedicated actuators}	21/02	Microlight-type aircraft
2027/725	(using jets controlled by piezoelectric	31/02	• Gliders, e.g. sailplanes (hang-gliders <u>B64C 31/028</u>)
2027/7255	actuators}	31/024	. with auxiliary power plant
	(with floor)	31/028 31/0285	 Hang-glider-type aircraft; Microlight-type aircraft {Safety devices}
	 {with flaps} {actuated by actuators}	31/0283	. (Safety devices). having delta shaped wing
	{actuated by actuators} {of the electro-hydraulic type}	31/032	having deta shaped wing having parachute-type wing
	{of the electro-hydraunic type}	31/030	Man-powered aircraft
	{of the piezoelectric type}	31/06	 Kites (toy aspects A63H 27/08; airborne towed
			targets, e.g. kites <u>F41J 9/10</u>)
2027/7288	{ of the memory shape type}		targets, e.g. kites <u>1413 //10</u>)
	{of the memory shape type} {actuated mechanically, e.g. by means of	2031/065	• { of inflatable wing type }
	{of the memory shape type} {actuated mechanically, e.g. by means of linkages}		• • {of inflatable wing type}
	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of 	2031/065 33/00	• {of inflatable wing type} Ornithopters
2027/7294	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor 		• • {of inflatable wing type}
2027/7294	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between 		• {of inflatable wing type} Ornithopters
2027/7294 27/78 27/80	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors 		• • {of inflatable wing type} Ornithopters WARNING
2027/7294	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor 		Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be
2027/7294 27/78 27/80	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor 		Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40.
2027/7294 27/78 27/80 27/82	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft 	33/00	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search.
2027/7294 27/78 27/80 27/82 2027/8209	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} 	33/00 33/02	 Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor
2027/7294 27/78 27/80 27/82	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft 	33/00 33/02 33/025	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down}
2027/7294 27/78 27/80 27/82 2027/8209	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with 	33/02 33/025 35/00	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes
2027/7294 27/78 27/80 27/82 2027/8209	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} 	33/02 33/025 35/00 35/001	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor the entire wing moving either up or down} Flying-boats; Seaplanes with means for increasing stability on the water}
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} 	33/00 33/02 33/025 35/00 35/001 35/002	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor the entire wing moving either up or down} Flying-boats; Seaplanes with means for increasing stability on the water} using adjustable auxiliary floats}
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218 2027/8227 2027/8236 2027/8245	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} . {using air jets} 	33/00 33/02 33/025 35/00 35/001 35/002 35/003	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes • {with means for increasing stability on the water} • {using adjustable auxiliary floats} • {using auxiliary floats at the wing tips}
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218 2027/8227 2027/8236 2027/8245 2027/8254	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} . {using air jets} . {Shrouded tail rotors, e.g. "Fenestron" fans} 	33/00 33/02 33/025 35/00 35/001 35/002	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes • {with means for increasing stability on the water} • {using adjustable auxiliary floats} • {using auxiliary floats at the wing tips} • {with propellers, rudders or brakes acting in the
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218 2027/8227 2027/8236 2027/8245	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} . {using air jets} . {Shrouded tail rotors, e.g. "Fenestron" fans} . {comprising in addition rudders, tails, fins, or the 	33/00 33/02 33/025 35/00 35/001 35/002 35/003 35/005	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes • {with means for increasing stability on the water} • {using adjustable auxiliary floats} • {using auxiliary floats at the wing tips} • {with propellers, rudders or brakes acting in the water}
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218 2027/8227 2027/8236 2027/8245 2027/8254 2027/8263	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} . {shrouded tail rotors, e.g. "Fenestron" fans} . {comprising in addition rudders, tails, fins, or the like} 	33/00 33/02 33/025 35/00 35/001 35/002 35/003 35/005	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes • {with means for increasing stability on the water} • {using adjustable auxiliary floats} • {using auxiliary floats at the wing tips} • {with propellers, rudders or brakes acting in the water} • {with lift generating devices}
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218 2027/8227 2027/8236 2027/8245 2027/8254 2027/8263 2027/8272	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} . {using air jets} . {Shrouded tail rotors, e.g. "Fenestron" fans} . {comprising in addition rudders, tails, fins, or the like} . {comprising fins, or movable rudders} 	33/00 33/02 33/025 35/00 35/001 35/002 35/003 35/005	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes • {with means for increasing stability on the water} • {using adjustable auxiliary floats} • {using auxiliary floats at the wing tips} • {with propellers, rudders or brakes acting in the water} • {with lift generating devices} • {Specific control surfaces therefor}
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218 2027/8227 2027/8236 2027/8245 2027/8254 2027/8263 2027/8272 2027/8272	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} . {using air jets} . {shrouded tail rotors, e.g. "Fenestron" fans} . {comprising in addition rudders, tails, fins, or the like} . {comprising fins, or movable rudders} . {comprising horizontal tail planes} 	33/00 33/02 33/025 35/00 35/001 35/002 35/003 35/005 35/006 35/007 35/008	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes • {with means for increasing stability on the water} • {using adjustable auxiliary floats} • {using auxiliary floats at the wing tips} • {with propellers, rudders or brakes acting in the water} • {with lift generating devices} • {Specific control surfaces therefor} • {Amphibious sea planes}
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218 2027/8227 2027/8236 2027/8245 2027/8254 2027/8263 2027/8272 2027/8272 2027/8281 2027/829	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} . {shrouded tail rotors, e.g. "Fenestron" fans} . {comprising in addition rudders, tails, fins, or the like} . {comprising fins, or movable rudders} . {comprising horizontal tail planes} . {comprising a V-tail units} 	33/00 33/02 33/025 35/00 35/001 35/002 35/003 35/005 35/006 35/007 35/008 37/00	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes • {with means for increasing stability on the water} • {using adjustable auxiliary floats} • {using auxiliary floats at the wing tips} • {with propellers, rudders or brakes acting in the water} • {with lift generating devices} • {Specific control surfaces therefor} • {Amphibious sea planes} Convertible aircraft
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218 2027/8227 2027/8236 2027/8245 2027/8254 2027/8263 2027/8272 2027/8272	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} . {shrouded tail rotors, e.g. "Fenestron" fans} . {comprising in addition rudders, tails, fins, or the like} . {comprising fins, or movable rudders} . {comprising horizontal tail planes} . {comprising a V-tail units} Aircraft capable of landing or taking-off vertically,	33/00 33/02 33/025 35/00 35/001 35/002 35/003 35/005 35/006 35/007 35/008	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes • {with means for increasing stability on the water} • {using adjustable auxiliary floats} • {using auxiliary floats at the wing tips} • {with propellers, rudders or brakes acting in the water} • {with lift generating devices} • {Specific control surfaces therefor} • {Amphibious sea planes} Convertible aircraft • Flying units formed by separate aircraft (towing
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218 2027/8227 2027/8236 2027/8245 2027/8254 2027/8263 2027/8272 2027/8272 2027/8281 2027/829	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} . {using air jets} . {Shrouded tail rotors, e.g. "Fenestron" fans} . {comprising in addition rudders, tails, fins, or the like} . {comprising horizontal tail planes} . {comprising a V-tail units} Aircraft capable of landing or taking-off vertically, e.g. vertical take-off and landing [VTOL] aircraft	33/00 33/02 33/025 35/00 35/001 35/002 35/003 35/005 35/006 35/007 35/008 37/00	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes • {with means for increasing stability on the water} • {using adjustable auxiliary floats} • {using adjustable auxiliary floats} • {with propellers, rudders or brakes acting in the water} • {with lift generating devices} • {Specific control surfaces therefor} • {Amphibious sea planes} Convertible aircraft • Flying units formed by separate aircraft (towing B64D 3/00; aircraft transported by aircraft
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218 2027/8227 2027/8236 2027/8245 2027/8254 2027/8263 2027/8272 2027/8272 2027/8281 2027/829 29/00	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} . {shrouded tail rotors, e.g. "Fenestron" fans} . {comprising in addition rudders, tails, fins, or the like} . {comprising horizontal tail planes} . {comprising a V-tail units} Aircraft capable of landing or taking-off vertically, e.g. vertical take-off and landing [VTOL] aircraft (rotorcraft B64C 27/00)	33/00 33/02 33/025 35/00 35/001 35/002 35/003 35/005 35/006 35/007 35/008 37/00	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes • {with means for increasing stability on the water} • {using adjustable auxiliary floats} • {using auxiliary floats at the wing tips} • {with propellers, rudders or brakes acting in the water} • {with lift generating devices} • {Specific control surfaces therefor} • {Amphibious sea planes} Convertible aircraft • Flying units formed by separate aircraft (towing
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218 2027/8227 2027/8236 2027/8245 2027/8254 2027/8263 2027/8272 2027/8272 2027/8281 2027/829	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} . {using air jets} . {Shrouded tail rotors, e.g. "Fenestron" fans} . {comprising in addition rudders, tails, fins, or the like} . {comprising fins, or movable rudders} . {comprising a V-tail units} Aircraft capable of landing or taking-off vertically, e.g. vertical take-off and landing [VTOL] aircraft (rotorcraft B64C 27/00) . {having its flight directional axis horizontal when 	33/00 33/02 33/025 35/00 35/001 35/002 35/003 35/005 35/006 35/007 35/008 37/00	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes • {with means for increasing stability on the water} • {using adjustable auxiliary floats} • {using adjustable auxiliary floats} • {with propellers, rudders or brakes acting in the water} • {with lift generating devices} • {Specific control surfaces therefor} • {Amphibious sea planes} Convertible aircraft • Flying units formed by separate aircraft (towing B64D 3/00; aircraft transported by aircraft
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218 2027/8227 2027/8236 2027/8245 2027/8254 2027/8263 2027/8272 2027/8272 2027/8281 2027/829 29/00	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} . {shrouded tail rotors, e.g. "Fenestron" fans} . {comprising in addition rudders, tails, fins, or the like} . {comprising fins, or movable rudders} . {comprising a V-tail units} Aircraft capable of landing or taking-off vertically, e.g. vertical take-off and landing [VTOL] aircraft (rotorcraft B64C 27/00) . {having its flight directional axis horizontal when grounded} 	33/00 33/02 33/025 35/00 35/001 35/002 35/003 35/005 35/006 35/007 35/008 37/00	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes • {with means for increasing stability on the water} • {using adjustable auxiliary floats} • {using adjustable auxiliary floats} • {with propellers, rudders or brakes acting in the water} • {with lift generating devices} • {Specific control surfaces therefor} • {Amphibious sea planes} Convertible aircraft • Flying units formed by separate aircraft (towing B64D 3/00; aircraft transported by aircraft
2027/7294 27/78 27/80 27/82 2027/8209 2027/8218 2027/8236 2027/8236 2027/8245 2027/8254 2027/8263 2027/8272 2027/8272 2027/8281 2027/829 29/0008	 {actuated mechanically, e.g. by means of linkages} . in association with pitch adjustment of blades of anti-torque rotor . for differential adjustment of blade pitch between two or more lifting rotors . characterised by the provision of an auxiliary rotor or fluid-jet device for counter-balancing lifting rotor torque or changing direction of rotorcraft . {Electrically driven tail rotors} . {wherein the rotor or the jet axis is inclined with respect to the longitudinal horizontal or vertical plane of the helicopter} . {comprising more than one rotor} . {including pusher propellers} . {using air jets} . {Shrouded tail rotors, e.g. "Fenestron" fans} . {comprising in addition rudders, tails, fins, or the like} . {comprising fins, or movable rudders} . {comprising a V-tail units} Aircraft capable of landing or taking-off vertically, e.g. vertical take-off and landing [VTOL] aircraft (rotorcraft B64C 27/00) . {having its flight directional axis horizontal when 	33/00 33/02 33/025 35/00 35/001 35/002 35/003 35/005 35/006 35/007 35/008 37/00	Ornithopters WARNING Group B64C 33/00 is impacted by reclassification into group B64U 10/40. Groups B64C 33/00 and B64U 10/40 should be considered in order to perform a complete search. Wings; Actuating mechanisms therefor • {the entire wing moving either up or down} Flying-boats; Seaplanes • {with means for increasing stability on the water} • {using adjustable auxiliary floats} • {using adjustable auxiliary floats} • {with propellers, rudders or brakes acting in the water} • {with lift generating devices} • {Specific control surfaces therefor} • {Amphibious sea planes} Convertible aircraft • Flying units formed by separate aircraft (towing B64D 3/00; aircraft transported by aircraft

39/00 Aircraft not otherwise provided for

WARNING

Group B64C 39/00 is impacted by reclassification into groups B64U 10/00 - B64U 10/80,

B64U 20/00 - B64U 20/98,

B64U 30/00, B64U 30/10-B64U 30/16,

B64U 30/20-B64U 30/299, B64U 30/30,

B64U 30/40, B64U 40/00 - B64U 40/20,

B64U 50/00 - B64U 50/39,

B64U 60/00 - B64U 60/70,

B64U 70/00 - B64U 70/99 and

B64U 80/00 - B64U 80/86.

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

39/001 . {Flying saucers}

WARNING

Group B64C 39/001 is impacted

by reclassification into groups

B64U 10/00 - B64U 10/80,

B64U 20/00 - B64U 20/98,

B64U 30/00, B64U 30/10-B64U 30/16,

B64U 30/20-B64U 30/299, B64U 30/30,

B64U 30/40, B64U 40/00 - B64U 40/20,

B64U 50/00 - B64U 50/39,

B64U 60/00 - B64U 60/70.

B64U 70/00 - B64U 70/99 and

B64U 80/00 - B64U 80/86.

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

39/003

• {with wings, paddle wheels, bladed wheels, moving or rotating in relation to the fuselage (rotorcraft B64C 27/00; ornithopters B64C 33/00)}

WARNING

Group B64C 39/003 is impacted

by reclassification into groups

B64U 10/00 - B64U 10/80,

B64U 20/00 - B64U 20/98,

B64U 30/00, B64U 30/10-B64U 30/16,

B64U 30/20-B64U 30/299, B64U 30/30,

B64U 30/40, B64U 40/00 - B64U 40/20,

B64U 50/00 - B64U 50/39,

B64U 60/00 - B64U 60/70,

B64U 70/00 - B64U 70/99 and

B64U 80/00 - B64U 80/86.

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

39/005

• • {about a horizontal transversal axis}

WARNING

Group B64C 39/005 is impacted by reclassification into groups

B64U 10/00 - B64U 10/80,

B64U 20/00 - B64U 20/98,

B64U 30/00, B64U 30/10-B64U 30/16,

B64U 30/20-B64U 30/299, B64U 30/30,

B64U 30/40, B64U 40/00 - B64U 40/20,

B64U 50/00 - B64U 50/39,

B64U 60/00 - B64U 60/70,

B64U 70/00 - B64U 70/99 and

B64U 80/00 - B64U 80/86.

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

39/006 . . {about a vertical axis}

WARNING

Group B64C 39/006 is impacted

by reclassification into groups

B64U 10/00 - B64U 10/80,

B64U 20/00 - B64U 20/98,

B64U 30/00, B64U 30/10-B64U 30/16,

B64U 30/20-B64U 30/299, B64U 30/30,

B64U 30/40, B64U 40/00 - B64U 40/20,

B64U 50/00 - B64U 50/39,

B64U 60/00 - B64U 60/70,

B64U 70/00 - B64U 70/99 and

B64U 80/00 - B64U 80/86.

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

39/008 • • {about a longitudinal axis}

WARNING

Group B64C 39/008 is impacted

by reclassification into groups

B64U 10/00 - B64U 10/80,

B64U 20/00 - B64U 20/98,

B64U 30/00, B64U 30/10-B64U 30/16,

B64U 30/20-B64U 30/299, B64U 30/30,

B64U 30/40, B64U 40/00 - B64U 40/20,

B64U 50/00 - B64U 50/39,

B64U 60/00 - B64U 60/70,

B64U 70/00 - B64U 70/99 and

B64U 80/00 - B64U 80/86.

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

39/02 . characterised by special use

WARNING

Group B64C 39/02 is impacted by reclassification into groups B64U 10/00 - B64U 10/80, B64U 20/00 - B64U 20/98, B64U 30/00, B64U 30/10-B64U 30/16, B64U 30/20-B64U 30/299, B64U 30/30, B64U 30/40, B64U 40/00 - B64U 40/20, B64U 50/00 - B64U 50/39, B64U 60/00 - B64U 60/70, B64U 70/00 - B64U 70/99 and <u>B64U 80/00</u> - <u>B64U 80/86</u>. All groups listed in this Warning should be

considered in order to perform a complete

39/022 . . {Tethered aircraft}

WARNING

Group B64C 39/022 is impacted by reclassification into group B64U 10/60.

Groups B64C 39/022 and B64U 10/60 should be considered in order to perform a complete search.

39/024 • • {of the remote controlled vehicle type, i.e. RPV}

WARNING

Group B64C 39/024 is impacted by reclassification into groups B64U 10/00 - B64U 10/80, B64U 20/00 - B64U 20/98, B64U 30/00, B64U 30/10-B64U 30/16, B64U 30/20-B64U 30/299, B64U 30/30, B64U 30/40, B64U 40/00 - B64U 40/20, B64U 50/00 - B64U 50/39, B64U 60/00 - B64U 60/70, B64U 70/00 - B64U 70/99 and

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

39/026

• • {for use as personal propulsion unit}

B64U 80/00 - B64U 80/86.

39/028 • • {Micro-sized aircraft}

WARNING

Group B64C 39/028 is impacted by reclassification into group B64U 10/80.

Groups B64C 39/028 and B64U 10/80 should be considered in order to perform a complete search.

39/029 • {Asymmetrical aircraft}

WARNING

Group B64C 39/029 is impacted by reclassification into groups B64U 10/00 - B64U 10/80, B64U 20/00 - B64U 20/98, B64U 30/00, B64U 30/10-B64U 30/16, B64U 30/20-B64U 30/299, B64U 30/30, B64U 30/40, B64U 40/00 - B64U 40/20, B64U 50/00 - B64U 50/39, B64U 60/00 - B64U 60/70, B64U 70/00 - B64U 70/99 and

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

39/04 . having multiple fuselages or tail booms 39/06 . having disc- or ring-shaped wings 39/062 • • {having annular wings} 39/064 • {with radial airflow} 39/066 • {having channel wings} 39/068 • • {having multiple wings joined at the tips} 39/08 . having multiple wings 39/10 . All-wing aircraft

B64U 80/00 - B64U 80/86.

• • {of blended wing body type} . Canard-type aircraft 39/12

2039/105

99/00 Subject matter not provided for in other groups of this subclass 2203/00 Flying model aircraft, flying toy aircraft

2211/00 Modular constructions of airplanes or helicopters

2220/00 **Active noise reduction systems**

2230/00 **Boundary layer controls**

2230/02 . by using acoustic waves generated by transducers

. by actively generating fluid flow 2230/04

2230/06 by explicitly adjusting fluid flow, e.g. by using valves, variable aperture or slot areas, variable pump action or variable fluid pressure

2230/08 by influencing fluid flow by means of surface cavities, i.e. net fluid flow is null

2230/10 by influencing fluid flow by heating using other means than combustion

by using electromagnetic tiles, fluid ionizers, static 2230/12 charges or plasma

achieving noise reductions 2230/14

2230/16 by blowing other fluids over the surface than air, e.g. He, H, O₂ or exhaust gases

• by using small jets that make the fluid flow oscillate 2230/18

2230/20 • by passively inducing fluid flow, e.g. by means of a pressure difference between both ends of a slot or duct

by using a surface having multiple apertures of 2230/22 relatively small openings other than slots

2230/24 by using passive resonance cavities, e.g. without transducers

. by using rib lets or hydrophobic surfaces

2230/28 . at propeller or rotor blades