

CPC COOPERATIVE PATENT CLASSIFICATION

E05Y INDEXING SCHEME RELATING TO HINGES OR OTHER SUSPENSION DEVICES FOR DOORS, WINDOWS OR WINGS AND DEVICES FOR MOVING WINGS INTO OPEN OR CLOSED POSITION, CHECKS FOR WINGS AND WING FITTINGS NOT OTHERWISE PROVIDED FOR, CONCERNED WITH THE FUNCTIONING OF THE WING

2201/00	Constructional elements; Accessories therefore	2201/442	. . . . Stators
2201/10	. Covers; Housings	2201/446	. . . . Windings
2201/11	. . Covers	2201/448	. . . Fluid motors; Details thereof
2201/20	. Brakes; Disengaging means, e.g. clutches; Holders, e.g. locks; Stops; Accessories therefore	2201/454	. . . . Cylinders
2201/21	. . Brakes	2201/456	. . . . Pistons
2201/212	. . . Buffers	2201/458	. . . . Valves
2201/214	. . Disengaging means	2201/46	. . Magnets
2201/216	. . . Clutches	2201/462	. . . Electromagnets
2201/218	. . Holders	2201/47	. . Springs; Spring tensioners
2201/22	. . . Locks	2201/474	. . . Compression springs
2201/222	. . . Stabilizers, e.g. anti-rattle devices	2201/476	. . . Disk springs
2201/224	. . Stops	2201/478	. . . Gas springs
2201/23	. . Actuation thereof	2201/48	. . . Leaf springs
2201/232	. . . by automatically acting means	2201/482	. . . Ribbon springs
2201/234	. . . . direction dependent	2201/484	. . . Torsion springs
2201/236	. . . . using force or torque	2201/486	. . . . Torsion rods
2201/238	. . . . . reaction force or torque	2201/488	. . . Traction springs
2201/24	. . . . using lost motion	2201/49	. . . Wrap springs
2201/242	. . . . using threshold speed	2201/492	. . . Spring tensioners, tension sensors
2201/244	. . . by manual operation	2201/496	. . . Double acting springs
2201/246	. . . by motors, magnets, springs or weights	2201/50	. . Weights
2201/248	. . . characterised by the transmission	2201/502	. . . Wing weights
2201/25	. . Force or torque adjustment therefore (E05Y 2400/21 takes precedence)	2201/60	. Suspension or transmission members; Accessories therefore
2201/252	. . characterised by type of friction	2201/602	. . Suspension members
2201/254	. . . Fluid or viscous friction	2201/604	. . Transmission members
2201/256	. . . . with pistons or vanes	2201/606	. . Accessories therefore
2201/258	. . . Magnetic or electromagnetic friction	2201/608	. . . Back-drive
2201/26	. . . Mechanical friction	2201/61	. . . Cooperation between suspension or transmission members
2201/262	. . characterised by type of motion	2201/612	. . . . between carriers and rails
2201/264	. . . linear	2201/614	. . . . . Anti-derailing means
2201/266	. . . rotary	2201/616	. . . . to ensure mutual engagement, e.g. counter-rollers
2201/40	. Motors; Magnets; Springs; Weights; Accessories therefore	2201/618	. . . Transmission ratio variation
2201/404	. . characterised by the function	2201/62	. . . Synchronisation of transmission members
2201/406	. . . for additional wing movements only	2201/622	. . Suspension or transmission members elements
2201/408	. . . for braking	2201/624	. . . Arms
2201/41	. . . for closing	2201/626	. . . . Levers
2201/412	. . . . for the final closing movement	2201/628	. . . Bearings
2201/414	. . . . for the initial closing movement	2201/63	. . . . Races
2201/416	. . . for counterbalancing	2201/632	. . . . Sleeves
2201/418	. . . for holding	2201/636	. . . . Universal or ball joints
2201/42	. . . for locking	2201/638	. . . Cams; Ramps
2201/422	. . . for opening	2201/64	. . . Carriers
2201/424	. . . . for the final opening movement	2201/642	. . . . Trackless carriers
2201/426	. . . . for the initial opening movement	2201/644	. . . Flexible elongated pulling elements; Members cooperating with flexible elongated pulling elements
2201/428	. . . for suspending or supporting	2201/646	. . . . continuous, e.g. closed loops
2201/43	. . Motors	2201/648	. . . . having teeth (toothed gearing E05Y 2201/71)
2201/434	. . . Electromotors; Details thereof		
2201/438	. . . . Rotors		

2201/652	. . . . Belts	2400/337	. . . . . Encoder wheels
2201/654	. . . . Cables	2400/338	. . . . . of the linear type
2201/656	. . . . Chains	2400/34	. . . . . Pulse count limit setting
2201/658	. . . . Members cooperating with flexible elongated pulling elements	2400/342	. . . . . Pulse count value setting or correcting
2201/66	. . . . . Deflectors; Guides	2400/35	. . . . . related to specific positions
2201/662	. . . . . Cable sheaths	2400/354	. . . . . End positions
2201/664	. . . . . Drums	2400/356	. . . . . Predefined intermediate positions
2201/666	. . . . . Magazines	2400/358	. . . . . in the proximity of end positions
2201/668	. . . . . Pulleys; Wheels	2400/36	. . . Speed control, detection or monitoring
2201/67	. . . . . in tackles	2400/40	. . . Control units therefore
2201/672	. . . . . Tensioners, tension sensors	2400/41	. . . . for multiple motors
2201/674	. . . Friction wheels	2400/415	. . . . . for multiple wings
2201/676	. . . Transmission of human force	2400/42	. . . . . for multiple openings
2201/678	. . . . Hand chains	2400/44	. . . Sensors therefore (E05Y 2400/322 , E05Y 2400/33 , E05Y 2400/55 , E05Y 2400/56 , E05Y 2400/852 take precedence)
2201/68	. . . . Handles, cranks	2400/445	. . . Switches
2201/682	. . . Pins	2400/45	. . Control modes
2201/684	. . . Rails	2400/452	. . . for saving energy
2201/686	. . . Rods, links	2400/454	. . . for accommodating handicapped users
2201/688	. . . Rollers	2400/456	. . . for programming
2201/69	. . . . having inclined axes	2400/458	. . . for generating service signals
2201/692	. . . . having vertical axes	2400/50	. . Fault detection
2201/694	. . . Scissor mechanisms	2400/502	. . . of components
2201/696	. . . Screw mechanisms	2400/504	. . . of control
2201/70	. . . . Nuts	2400/506	. . . of counterbalance
2201/702	. . . . Spindles; Worms	2400/508	. . . of detection
2201/704	. . . . Worm wheels	2400/51	. . . of position, of back drive
2201/706	. . . Shafts	2400/512	. . . of electric power
2201/708	. . . Sliders (E05Y 2201/64 takes precedence)	2400/514	. . . of speed
2201/71	. . . Toothed gearing	2400/52	. . Safety arrangements (Safety means for manual wing operation E05Y 2800/116)
2201/712	. . . . with incomplete toothing	2400/522	. . . Back-drive prevention
2201/716	. . . . Pinions	2400/525	. . . Car-jacking prevention
2201/718	. . . . . Bevelled pinions	2400/53	. . . Wing impact prevention or reduction
2201/72	. . . . Planetary gearing	2400/532	. . . . Emergency braking
2201/722	. . . . Racks	2400/54	. . . . Obstruction or resistance detection
2201/724	. . . . . Flexible	2400/55	. . . . . by using load sensors (sensors for electronic control of hinges, wings, windows as such E05Y 2400/44)
2201/726	. . . . Ring gears; Internal gears	2400/552	. . . . . Switches
2400/00	Electronic control; Power supply; Power or signal transmission; User interfaces	2400/554	. . . . . sensing motor load
2400/10	. Electronic control	2400/56	. . . . . by using speed sensors (sensors for electronic control of hinges, wings, windows as such E05Y 2400/44)
2400/20	. . of brakes, disengaging means, holders or stops	2400/562	. . . . . Switches
2400/202	. . . Force or torque control (mechanical aspects E05Y 2201/25)	2400/564	. . . . . sensing motor speed
2400/21	. . . . by controlling the viscosity	2400/57	. . . . . Disabling thereof
2400/30	. . of motors	2400/58	. . . . . Sensitivity setting or adjustment
2400/302	. . . during electromotoric braking	2400/59	. . . Travel display
2400/31	. . . Force or torque control	2400/60	. Power supply; Power or signal transmission
2400/315	. . . . Curve setting or adjusting	2400/61	. . Power supply
2400/32	. . . Position control, detection or monitoring	2400/612	. . . Batteries
2400/322	. . . . by using absolute position sensors (sensors for electronic control of hinges, wings, windows as such E05Y 2400/44)	2400/614	. . . . charging thereof
2400/324	. . . . . Switches	2400/616	. . . Generators
2400/326	. . . . . of the angular type	2400/628	. . . . Solar cells
2400/328	. . . . . of the linear type	2400/65	. . Power or signal transmission
2400/33	. . . . by using load sensors (sensors for electronic control of hinges, wings, windows as such E05Y 2400/44)	2400/652	. . . by bus
2400/332	. . . . . Switches	2400/654	. . . by electrical cables
2400/334	. . . . by using pulse generators	2400/656	. . . by travelling contacts
2400/336	. . . . . of the angular type	2400/658	. . . . with current rails
		2400/66	. . . Wireless transmission

2400/662	. . . . by optical waves	2600/622	. . Dowels; Pins
2400/664	. . . . by radio waves	2600/624	. . Nuts
2400/80	. User interfaces	2600/626	. . Plates or brackets
2400/81	. . User displays	2600/628	. . Profiles
2400/812	. . . with acoustic display	2600/63	. . Retainers
2400/814	. . . . Sound emitters, e.g. speakers	2600/632	. . Screws
2400/816	. . . . . Voice emitters	2600/634	. . Spacers
2400/818	. . . with visual display	2600/636	. . . Washers
2400/82	. . . . Images, Symbols		
2400/822	. . . . Light emitters, e.g. LEDs	2800/00	Details, accessories and auxiliary operations not otherwise provided for
2400/85	. . User input means	2800/10	. Additional functions
2400/852	. . . Sensors	2800/102	. . Additional wing movements
2400/854	. . . . Switches	2800/104	. . Heating
2400/856	. . . . Actuation thereof	2800/106	. . Lighting
2400/858	. . . . . by body parts	2800/108	. . Lubrication
2400/86	. . . . . by hand	2800/11	. . Manual wing operation
2600/00	Mounting or coupling arrangements for elements provided for in this subclass	2800/112	. . . Back driving the transmission or motor
2600/10	. Adjustable or movable	2800/113	. . . . Power assistance
2600/11	. . by automatically acting means	2800/114	. . . . Overriding existing wing movement
2600/12	. . by manual operation	2800/116	. . . Safety means therefore
2600/13	. . by motors, magnets, springs, weights	2800/12	. . Sealing
2600/14	. . with position retaining means	2800/122	. . Telescopic action
2600/20	. . characterised by the movement transmission	2800/15	. Applicability
2600/30	. . characterised by the type of motion	2800/16	. . applicable on combinations of fixed and movable wings
2600/31	. . . Linear motion	2800/162	. . . the wings being coplanar when the movable wing is in the closed position
2600/312	. . . . Horizontal motion	2800/17	. . Universally applicable
2600/314	. . . . Vertical motion	2800/172	. . . on different wing or frame locations
2600/32	. . . Rotary motion	2800/174	. . . . on the left or right side
2600/322	. . . . around a horizontal axis	2800/176	. . . on different wing types
2600/324	. . . . around a vertical axis	2800/178	. . . on wings having different thicknesses
2600/33	. . . Stepwise motion	2800/20	. Combinations of elements
2600/40	. Mounting location; Visibility of the elements	2800/205	. . forming a unit
2600/41	. . Concealed	2800/21	. . of identical elements, e.g. of identical compression springs
2600/412	. . . in the rabbet	2800/22	. . of not identical elements of the same category, e.g. combinations of not identical springs
2600/45	. . in or on the fixed frame	2800/23	. . of elements of different categories
2600/452	. . in or on the floor or wall	2800/232	. . . of motors and transmissions
2600/454	. . in or on the motor	2800/234	. . . of motors and brakes
2600/456	. . in or on a suspension member	2800/236	. . . of motors and springs
2600/458	. . in or on a transmission member	2800/238	. . . of springs and transmissions
2600/46	. . in or on the wing	2800/24	. . . of springs and brakes
2600/50	. Mounting methods; Positioning	2800/242	. . arranged in parallel relationship
2600/502	. . Clamping	2800/244	. . arranged in serial relationship
2600/504	. . Expansion	2800/246	. . with at least one element being redundant
2600/506	. . Plastic deformation	2800/25	. Emergency conditions
2600/508	. . . Riveting (in general B21J)	2800/252	. . the elements functioning only in case of emergency
2600/51	. . Screwing or bolting	2800/254	. . the elements not functioning in case of emergency
2600/52	. . Toolless	2800/26	. Form, shape
2600/522	. . . Axial stacking	2800/262	. . column shaped
2600/524	. . . Friction	2800/264	. . compact
2600/526	. . . Glueing or cementing	2800/266	. . curved
2600/528	. . . Hooking, e.g. using bayonets; Locking	2800/268	. . cylindrical
2600/53	. . . Snapping	2800/27	. . profiles
2600/54	. . Welding (in general B23K , B29C 65/02)	2800/272	. . . hollow
2600/56	. . Positioning or pre-mounting	2800/276	. . . . U-shaped
2600/60	. Mounting or coupling members (devices for fastening or securing constructional elements or machine parts together, e.g. nails, bolts, in general F16B); Accessories therefore	2800/278	. . . . C-shaped
2600/61	. . Threaded members	2800/28	. . tubular
2600/62	. . Bolts		

2800/29	. . forming a unitary piece with another element	2800/748	. . . end
2800/292	. . having apertures	2800/75	. . intermediate
2800/296	. . . Slots	2900/00	Application of doors, windows, wings or fittings thereof
2800/298	. . having indentations	2900/10	. for buildings or parts thereof
2800/33	. . having protrusions	2900/102	. . for cold-rooms
2800/34	. Form stability	2900/104	. . for elevators
2800/342	. . Deformable	2900/106	. . for garages
2800/344	. . . elastically	2900/108	. . for hangars
2800/35	. . . of specific parts	2900/11	. . for industrial buildings
2800/352	. Frames; Posts	2900/112	. . for restrooms
2800/353	. . fixed	2900/114	. . for showers
2800/356	. . . horizontal frame members	2900/116	. . for sluices
2800/358	. . . vertical frame members or posts	2900/13	. . characterised by the type of wing
2800/36	. . Movable frames	2900/131	. . . Access panels
2800/362	. . . horizontal frame members	2900/132	. . . Doors
2800/364	. . . vertical frame members	2900/134	. . . . Fire doors
2800/37	. Length, width adjustment	2900/136	. . . . Insect doors
2800/372	. . Telescopic	2900/14	. . . . Doors disappearing in pockets of a wall, e.g. so-called pocket doors
2800/40	. Protection (E05Y 2400/50 , E05Y 2400/52 take precedence)	2900/142	. . . Partition walls
2800/402	. . against corrosion	2900/144	. . . Security grills
2800/404	. . against component faults or failure	2900/146	. . . Shutters
2800/406	. . against deformation	2900/148	. . . Windows
2800/407	. . . plastic deformation	2900/15	. . . . Balcony glazing
2800/409	. . against faulty mounting or coupling	2900/152	. . . . Roof windows
2800/41	. . against finger injury	2900/154	. . . . . Skylights
2800/412	. . against friction	2900/20	. for furnitures, e.g. cabinets
2800/414	. . against high or low temperatures	2900/202	. . for display cabinets
2800/416	. . . against fire	2900/204	. . for display counters
2800/42	. . against smoke or gas	2900/208	. . for metal cabinets
2800/422	. . against vibration or noise	2900/21	. . for safety cabinets
2800/424	. . against unintended use	2900/212	. . Doors disappearing in pockets in the furniture body
2800/426	. . . against unauthorised use (E05Y 2400/51 , E05Y 2400/522 take precedence)	2900/30	. for domestic appliances
2800/428	. . against water	2900/302	. . for built-in appliances
2800/43	. . against wear	2900/304	. . for dishwashers
2800/45	. Manufacturing	2900/306	. . for freezers
2800/455	. . Extrusion (in general B29C 47/00 , B21C 23/00)	2900/308	. . for ovens
2800/46	. . Injection moulding (in general B29C 45/00)	2900/31	. . for refrigerators
2800/465	. . Pressing	2900/312	. . for washing machines
2800/67	. Materials; Strength alteration thereof	2900/40	. for gates
2800/672	. . Glass	2900/402	. . for cantilever gates
2800/674	. . Metal	2900/404	. . for railway platform gates
2800/676	. . Plastics	2900/50	. for vehicles
2800/678	. . . Elastomers	2900/502	. . for aircraft
2800/68	. . Combinations of materials	2900/504	. . for armored vehicles
2800/682	. . Strength alteration by reinforcing, e.g. by applying ribs	2900/506	. . for buses
2800/684	. . Strength alteration by weakening, e.g. by applying grooves	2900/508	. . for convertibles
2800/69	. Permanence of use	2900/51	. . for railway cars or mass transit vehicles
2800/692	. . Temporary use	2900/512	. . for recreational vehicles
2800/694	. . during manufacturing	2900/514	. . for ships
2800/696	. . during transport or storage	2900/516	. . for trucks or trailers
2800/70	. Retrofitting of elements	2900/518	. . for working vehicles
2800/71	. Secondary wings, e.g. pass doors	2900/53	. . characterised by the type of wing
2800/72	. Sets of mutually exchangeable elements	2900/531	. . . Doors
2800/73	. Single use of elements	2900/532	. . . . Back doors or end doors
2800/74	. Specific positions (E05Y 2400/35 takes precedence)	2900/534	. . . Fuel lids
2800/742	. . abnormal	2900/536	. . . Hoods
2800/744	. . . cleaning or service	2900/538	. . . Interior lids
2800/746	. . . emergency or extended	2900/54	. . . Luggage compartment lids for buses

2900/542 . . . Roof panels
2900/544 . . . Tailboards or sideboards
2900/546 . . . Tailgates
2900/548 . . . Trunk lids
2900/55 . . . Windows
2900/60 . for other use
2900/602 . . for containers
2900/604 . . . for large containers
2900/606 . . for electronic devices
2900/608 . . for machines
2900/612 . . for manhole covers
2900/614 . . for toilet seats or covers