

# CPC COOPERATIVE PATENT CLASSIFICATION

## E FIXED CONSTRUCTIONS

### BUILDING

#### E05 LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES

(NOTE omitted)

#### 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

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

2201/62	. . . Synchronisation of transmission members	2400/302	. . . during electromotoric braking
2201/622	. . Suspension or transmission members elements	2400/31	. . . Force or torque control
2201/624	. . . Arms	2400/315	. . . . Curve setting or adjusting
2201/626	. . . . Levers	2400/32	. . . Position control, detection or monitoring
2201/628	. . . Bearings	2400/322	. . . . by using absolute position sensors ( <a href="#">sensors for electronic control of hinges, wings, windows as such E05Y 2400/44</a> )
2201/63	. . . . Races	2400/324	. . . . . Switches
2201/632	. . . . Sleeves	2400/326	. . . . . of the angular type
2201/636	. . . . Universal or ball joints	2400/328	. . . . . of the linear type
2201/638	. . . Cams; Ramps	2400/33	. . . . . by using load sensors ( <a href="#">sensors for electronic control of hinges, wings, windows as such E05Y 2400/44</a> )
2201/64	. . . Carriers	2400/332	. . . . . Switches
2201/642	. . . . Trackless carriers	2400/334	. . . . . by using pulse generators
2201/644	. . . Flexible elongated pulling elements; Members cooperating with flexible elongated pulling elements	2400/336	. . . . . of the angular type
2201/646	. . . . continuous, e.g. closed loops	2400/337	. . . . . Encoder wheels
2201/648	. . . . having teeth ( <a href="#">toothed gearing E05Y 2201/71</a> )	2400/338	. . . . . of the linear type
2201/652	. . . . Belts	2400/34	. . . . . Pulse count limit setting
2201/654	. . . . Cables	2400/342	. . . . . Pulse count value setting or correcting
2201/656	. . . . Chains	2400/35	. . . . . related to specific positions
2201/658	. . . . Members cooperating with flexible elongated pulling elements	2400/354	. . . . . End positions
2201/66	. . . . . Deflectors; Guides	2400/356	. . . . . Predefined intermediate positions
2201/662	. . . . . Cable sheaths	2400/358	. . . . . in the proximity of end positions
2201/664	. . . . . Drums	2400/36	. . . Speed control, detection or monitoring
2201/666	. . . . . Magazines	2400/40	. . . Control units therefore
2201/668	. . . . . Pulleys; Wheels	2400/41	. . . . for multiple motors
2201/67	. . . . . in tackles	2400/415	. . . . . for multiple wings
2201/672	. . . . . Tensioners, tension sensors	2400/42	. . . . . for multiple openings
2201/674	. . . Friction wheels	2400/44	. . Sensors therefore ( <a href="#">E05Y 2400/322</a> , <a href="#">E05Y 2400/33</a> , <a href="#">E05Y 2400/55</a> , <a href="#">E05Y 2400/56</a> , <a href="#">E05Y 2400/852</a> take precedence)
2201/676	. . . Transmission of human force	2400/445	. . . Switches
2201/678	. . . . Hand chains	2400/45	. . Control modes
2201/68	. . . . Handles, cranks	2400/452	. . . for saving energy
2201/682	. . . Pins	2400/454	. . . for accommodating handicapped users
2201/684	. . . Rails	2400/456	. . . for programming
2201/686	. . . Rods, links	2400/458	. . . for generating service signals
2201/688	. . . Rollers	2400/50	. . Fault detection
2201/69	. . . . having inclined axes	2400/502	. . . of components
2201/692	. . . . having vertical axes	2400/504	. . . of control
2201/694	. . . Scissor mechanisms	2400/506	. . . of counterbalance
2201/696	. . . Screw mechanisms	2400/508	. . . of detection
2201/70	. . . . Nuts	2400/51	. . . of position, of back drive
2201/702	. . . . Spindles; Worms	2400/512	. . . of electric power
2201/704	. . . . Worm wheels	2400/514	. . . of speed
2201/706	. . . Shafts	2400/52	. . Safety arrangements ( <a href="#">Safety means for manual wing operation E05Y 2800/116</a> )
2201/708	. . . Sliders ( <a href="#">E05Y 2201/64</a> takes precedence)	2400/522	. . . Back-drive prevention
2201/71	. . . Toothed gearing	2400/525	. . . Car-jacking prevention
2201/712	. . . . with incomplete toothing	2400/53	. . . Wing impact prevention or reduction
2201/716	. . . . Pinions	2400/532	. . . . Emergency braking
2201/718	. . . . . Bevelled pinions	2400/54	. . . . Obstruction or resistance detection
2201/72	. . . . Planetary gearing	2400/55	. . . . . by using load sensors ( <a href="#">sensors for electronic control of hinges, wings, windows as such E05Y 2400/44</a> )
2201/722	. . . . Racks	2400/552	. . . . . Switches
2201/724	. . . . . Flexible	2400/554	. . . . . sensing motor load
2201/726	. . . . . Ring gears; Internal gears	2400/56	. . . . . by using speed sensors ( <a href="#">sensors for electronic control of hinges, wings, windows as such E05Y 2400/44</a> )
<b>2400/00</b>	<b>Electronic control; Power supply; Power or signal transmission; User interfaces</b>	2400/562	. . . . . Switches
2400/10	. Electronic control		
2400/20	. . of brakes, disengaging means, holders or stops		
2400/202	. . . Force or torque control ( <a href="#">mechanical aspects E05Y 2201/25</a> )		
2400/21	. . . . by controlling the viscosity		
2400/30	. . of motors		

2400/564	. . . . . sensing motor speed	2600/508	. . . Riveting ( <a href="#">in general B21J</a> )
2400/57	. . . . . Disabling thereof	2600/51	. . Screwing or bolting
2400/58	. . . . . Sensitivity setting or adjustment	2600/52	. . Toolless
2400/59	. . . Travel display	2600/522	. . . Axial stacking
2400/60	. Power supply; Power or signal transmission	2600/524	. . . Friction
2400/61	. . Power supply	2600/526	. . . Glueing or cementing
2400/612	. . . Batteries	2600/528	. . . Hooking, e.g. using bayonets; Locking
2400/614	. . . . charging thereof	2600/53	. . . Snapping
2400/616	. . . Generators	2600/54	. . Welding ( <a href="#">in general B23K</a> , <a href="#">B29C 65/02</a> )
2400/628	. . . . Solar cells	2600/56	. . Positioning or pre-mounting
2400/65	. . Power or signal transmission	2600/60	. Mounting or coupling members ( <a href="#">devices for fastening or securing constructional elements or machine parts together, e.g. nails, bolts, in general F16B</a> ); Accessories therefore
2400/652	. . . by bus	2600/61	. . Threaded members
2400/654	. . . by electrical cables	2600/62	. . Bolts
2400/656	. . . by travelling contacts	2600/622	. . Dowels; Pins
2400/658	. . . . with current rails	2600/624	. . Nuts
2400/66	. . . Wireless transmission	2600/626	. . Plates or brackets
2400/662	. . . . by optical waves	2600/628	. . Profiles
2400/664	. . . . by radio waves	2600/63	. . Retainers
2400/80	. User interfaces	2600/632	. . Screws
2400/81	. . User displays	2600/634	. . Spacers
2400/812	. . . with acoustic display	2600/636	. . . Washers
2400/814	. . . . Sound emitters, e.g. speakers		
2400/816	. . . . . Voice emitters	<b>2800/00</b>	<b>Details, accessories and auxiliary operations not otherwise provided for</b>
2400/818	. . . with visual display	2800/10	. Additional functions
2400/82	. . . . Images, Symbols	2800/102	. . Additional wing movements
2400/822	. . . . Light emitters, e.g. LEDs	2800/104	. . Heating
2400/85	. . User input means	2800/106	. . Lighting
2400/852	. . . Sensors	2800/108	. . Lubrication
2400/854	. . . . Switches	2800/11	. . Manual wing operation
2400/856	. . . . Actuation thereof	2800/112	. . . Back driving the transmission or motor
2400/858	. . . . . by body parts	2800/113	. . . . Power assistance
2400/86	. . . . . by hand	2800/114	. . . . Overriding existing wing movement
		2800/116	. . . Safety means therefore
<b>2600/00</b>	<b>Mounting or coupling arrangements for elements provided for in this subclass</b>	2800/12	. . Sealing
2600/10	. Adjustable or movable	2800/122	. . Telescopic action
2600/11	. . by automatically acting means	2800/15	. Applicability
2600/12	. . by manual operation	2800/16	. . applicable on combinations of fixed and movable wings
2600/13	. . by motors, magnets, springs, weights	2800/162	. . . the wings being coplanar when the movable wing is in the closed position
2600/14	. . with position retaining means	2800/17	. . Universally applicable
2600/20	. . characterised by the movement transmission	2800/172	. . . on different wing or frame locations
2600/30	. . characterised by the type of motion	2800/174	. . . . on the left or right side
2600/31	. . . Linear motion	2800/176	. . . on different wing types
2600/312	. . . . Horizontal motion	2800/178	. . . on wings having different thicknesses
2600/314	. . . . Vertical motion	2800/20	. Combinations of elements
2600/32	. . . Rotary motion	2800/205	. . forming a unit
2600/322	. . . . around a horizontal axis	2800/21	. . of identical elements, e.g. of identical compression springs
2600/324	. . . . around a vertical axis	2800/22	. . of not identical elements of the same category, e.g. combinations of not identical springs
2600/33	. . . Stepwise motion	2800/23	. . of elements of different categories
2600/40	. Mounting location; Visibility of the elements	2800/232	. . . of motors and transmissions
2600/41	. . Concealed	2800/234	. . . of motors and brakes
2600/412	. . . in the rabbet	2800/236	. . . of motors and springs
2600/45	. . in or on the fixed frame	2800/238	. . . of springs and transmissions
2600/452	. . in or on the floor or wall	2800/24	. . . of springs and brakes
2600/454	. . in or on the motor	2800/242	. . . arranged in parallel relationship
2600/456	. . in or on a suspension member		
2600/458	. . in or on a transmission member		
2600/46	. . in or on the wing		
2600/50	. Mounting methods; Positioning		
2600/502	. . Clamping		
2600/504	. . Expansion		
2600/506	. . Plastic deformation		

2800/244	. . arranged in serial relationship	2800/68	. . Combinations of materials
2800/246	. . with at least one element being redundant	2800/682	. . Strength alteration by reinforcing, e.g. by applying ribs
2800/25	. Emergency conditions	2800/684	. . Strength alteration by weakening, e.g. by applying grooves
2800/252	. . the elements functioning only in case of emergency	2800/69	. Permanence of use
2800/254	. . the elements not functioning in case of emergency	2800/692	. . Temporary use
2800/26	. Form, shape	2800/694	. . during manufacturing
2800/262	. . column shaped	2800/696	. . during transport or storage
2800/264	. . compact	2800/70	. Retrofitting of elements
2800/266	. . curved	2800/71	. Secondary wings, e.g. pass doors
2800/268	. . cylindrical	2800/72	. Sets of mutually exchangeable elements
2800/27	. . profiles	2800/73	. Single use of elements
2800/272	. . . hollow	2800/74	. Specific positions ( <a href="#">E05Y 2400/35</a> takes precedence)
2800/276	. . . . U-shaped	2800/742	. . abnormal
2800/278	. . . . C-shaped	2800/744	. . . cleaning or service
2800/28	. . tubular	2800/746	. . . emergency or extended
2800/29	. . forming a unitary piece with another element	2800/748	. . . end
2800/292	. . having apertures	2800/75	. . intermediate
2800/296	. . . Slots	<b>2900/00</b>	<b>Application of doors, windows, wings or fittings thereof</b>
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 ( <a href="#">E05Y 2400/50</a> , <a href="#">E05Y 2400/52</a> 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 ( <a href="#">E05Y 2400/51</a> , <a href="#">E05Y 2400/522</a> 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 ( <a href="#">in general B29C 48/00</a> , <a href="#">B21C 23/00</a> )	2900/308	. . for ovens
2800/46	. . Injection moulding ( <a href="#">in general B29C 45/00</a> )	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		
2800/678	. . . Elastomers		

## E05Y

2900/50	. for vehicles
2900/502	. . for aircraft
2900/504	. . for armored vehicles
2900/506	. . for buses
2900/508	. . for convertibles
2900/51	. . for railway cars or mass transit vehicles
2900/512	. . for recreational vehicles
2900/514	. . for ships
2900/516	. . for trucks or trailers
2900/518	. . for working vehicles
2900/53	. . characterised by the type of wing
2900/531	. . . Doors
2900/532	. . . . Back doors or end doors
2900/534	. . . Fuel lids
2900/536	. . . Hoods
2900/538	. . . Interior lids
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