

# 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

**E05Y**

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

## E05Y

- 2800/244 . . arranged in serial relationship
- 2800/246 . . with at least one element being redundant
- 2800/25 . Emergency conditions
- 2800/252 . . the elements functioning only in case of emergency
- 2800/254 . . the elements not functioning in case of emergency
- 2800/26 . Form, shape
- 2800/262 . . column shaped
- 2800/264 . . compact
- 2800/266 . . curved
- 2800/268 . . cylindrical
- 2800/27 . . profiles
- 2800/272 . . . hollow
- 2800/276 . . . . U-shaped
- 2800/278 . . . . C-shaped
- 2800/28 . . tubular
- 2800/29 . . forming a unitary piece with another element
- 2800/292 . . having apertures
- 2800/296 . . . Slots
- 2800/298 . . having indentations
- 2800/33 . . having protrusions
- 2800/34 . Form stability
- 2800/342 . . Deformable
- 2800/344 . . . elastically
- 2800/35 . . . of specific parts
- 2800/352 . Frames; Posts
- 2800/353 . . fixed
- 2800/356 . . . horizontal frame members
- 2800/358 . . . vertical frame members or posts
- 2800/36 . . Movable frames
- 2800/362 . . . horizontal frame members
- 2800/364 . . . vertical frame members
- 2800/37 . Length, width adjustment
- 2800/372 . . Telescopic
- 2800/40 . Protection ([E05Y 2400/50](#), [E05Y 2400/52 take precedence](#))
- 2800/402 . . against corrosion
- 2800/404 . . against component faults or failure
- 2800/406 . . against deformation
- 2800/407 . . . plastic deformation
- 2800/409 . . against faulty mounting or coupling
- 2800/41 . . against finger injury
- 2800/412 . . against friction
- 2800/414 . . against high or low temperatures
- 2800/416 . . . against fire
- 2800/42 . . against smoke or gas
- 2800/422 . . against vibration or noise
- 2800/424 . . against unintended use
- 2800/426 . . . against unauthorised use ([E05Y 2400/51](#), [E05Y 2400/522 take precedence](#))
- 2800/428 . . against water
- 2800/43 . . against wear
- 2800/45 . Manufacturing
- 2800/455 . . Extrusion ([in general B29C 48/00](#), [B21C 23/00](#))
- 2800/46 . . Injection moulding ([in general B29C 45/00](#))
- 2800/465 . . Pressing
- 2800/67 . Materials; Strength alteration thereof
- 2800/672 . . Glass
- 2800/674 . . Metal
- 2800/676 . . Plastics
- 2800/678 . . . Elastomers
- 2800/68 . . Combinations of materials
- 2800/682 . . Strength alteration by reinforcing, e.g. by applying ribs
- 2800/684 . . Strength alteration by weakening, e.g. by applying grooves
- 2800/69 . Permanence of use
- 2800/692 . . Temporary use
- 2800/694 . . during manufacturing
- 2800/696 . . during transport or storage
- 2800/70 . Retrofitting of elements
- 2800/71 . Secondary wings, e.g. pass doors
- 2800/72 . Sets of mutually exchangeable elements
- 2800/73 . Single use of elements
- 2800/74 . Specific positions ([E05Y 2400/35 takes precedence](#))
- 2800/742 . . abnormal
- 2800/744 . . . cleaning or service
- 2800/746 . . . emergency or extended
- 2800/748 . . . end
- 2800/75 . . intermediate
- 2900/00 Application of doors, windows, wings or fittings thereof**
- 2900/10 . for buildings or parts thereof
- 2900/102 . . for cold-rooms
- 2900/104 . . for elevators
- 2900/106 . . for garages
- 2900/108 . . for hangars
- 2900/11 . . for industrial buildings
- 2900/112 . . for restrooms
- 2900/114 . . for showers
- 2900/116 . . for sluices
- 2900/13 . . characterised by the type of wing
- 2900/131 . . . Access panels
- 2900/132 . . . Doors
- 2900/134 . . . . Fire doors
- 2900/136 . . . . Insect doors
- 2900/14 . . . . Doors disappearing in pockets of a wall, e.g. so-called pocket doors
- 2900/142 . . . Partition walls
- 2900/144 . . . Security grills
- 2900/146 . . . Shutters
- 2900/148 . . . Windows
- 2900/15 . . . . Balcony glazing
- 2900/152 . . . . Roof windows
- 2900/154 . . . . . Skylights
- 2900/20 . for furnitures, e.g. cabinets
- 2900/202 . . for display cabinets
- 2900/204 . . for display counters
- 2900/208 . . for metal cabinets
- 2900/21 . . for safety cabinets
- 2900/212 . . Doors disappearing in pockets in the furniture body
- 2900/30 . for domestic appliances
- 2900/302 . . for built-in appliances
- 2900/304 . . for dishwashers
- 2900/306 . . for freezers
- 2900/308 . . for ovens
- 2900/31 . . for refrigerators
- 2900/312 . . for washing machines
- 2900/40 . for gates
- 2900/402 . . for cantilever gates
- 2900/404 . . for railway platform gates

## 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