# 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

| 2201/00 | Constructional elements; Accessories therefore |
| 2201/10 | . . Covers; Housings |
| 2201/11 | . . Covers |
| 2201/20 | . . Brakes; Disengaging means, e.g. clutches; Holders, e.g. locks; Stops; Accessories therefore |
| 2201/21 | . . Brakes |
| 2201/212 | . . Buffers |
| 2201/214 | . . Disengaging means |
| 2201/216 | . . Clutches |
| 2201/218 | . . Holders |
| 2201/22 | . . Locks |
| 2201/222 | . . Stabilizers, e.g. anti-rattle devices |
| 2201/224 | . . Stops |
| 2201/23 | . . Actuation thereof |
| 2201/232 | . . by automatically acting means |
| 2201/234 | . . direction dependent |
| 2201/236 | . . using force or torque |
| 2201/238 | . . reaction force or torque |
| 2201/24 | . . using lost motion |
| 2201/242 | . . using threshold speed |
| 2201/244 | . . by manual operation |
| 2201/246 | . . by motors, magnets, springs or weights |
| 2201/248 | . . characterised by the transmission |
| 2201/25 | . . Force or torque adjustment therefore |

*(E05Y 2400/21 takes precedence)*

| 2201/252 | . . characterised by type of friction |
| 2201/254 | . . Fluid or viscous friction |
| 2201/256 | . . with pistons or vanes |
| 2201/258 | . . Magnetic or electromagnetic friction |
| 2201/26 | . . Mechanical friction |
| 2201/262 | . . characterised by type of motion |
| 2201/264 | . . linear |
| 2201/266 | . . rotary |
| 2201/40 | . . Motors; Magnets; Springs; Weights; Accessories therefore |
| 2201/404 | . . characterised by the function |
| 2201/406 | . . for additional wing movements only |
| 2201/408 | . . for braking |
| 2201/41 | . . for closing |
| 2201/412 | . . for the final closing movement |
| 2201/414 | . . for the initial closing movement |
| 2201/416 | . . for counterbalancing |
| 2201/418 | . . for holding |
| 2201/42 | . . for locking |
| 2201/422 | . . for opening |
| 2201/424 | . . for the final opening movement |
| 2201/426 | . . for the initial opening movement |
| 2201/428 | . . for suspending or supporting |
| 2201/43 | . . Motors |
| 2201/434 | . . Electromotors; Details thereof |
| 2201/438 | . . Rotors |
| 2201/442 | . . Stators |
| 2201/446 | . . Windings |
| 2201/448 | . . Fluid motors; Details thereof |
| 2201/454 | . . Cylinders |
| 2201/456 | . . Pistons |
| 2201/458 | . . Valves |
| 2201/46 | . . Magnets |
| 2201/462 | . . Electromagnets |
| 2201/47 | . . Springs; Spring tensioners |
| 2201/474 | . . Compression springs |
| 2201/476 | . . Disk springs |
| 2201/478 | . . Gas springs |
| 2201/48 | . . Leaf springs |
| 2201/482 | . . Ribbon springs |
| 2201/484 | . . Torsion springs |
| 2201/486 | . . Torsion rods |
| 2201/488 | . . Traction springs |
| 2201/49 | . . Wrap springs |
| 2201/492 | . . Spring tensioners, tension sensors |
| 2201/496 | . . Double acting springs |
| 2201/50 | . . Weights |
| 2201/502 | . . Wing weights |
| 2201/60 | . . Suspension or transmission members; Accessories therefore |
| 2201/602 | . . Suspension members |
| 2201/604 | . . Transmission members |
| 2201/606 | . . Accessories therefore |
| 2201/608 | . . Back-drive |
| 2201/61 | . . Cooperation between suspension or transmission members |
| 2201/612 | . . between carriers and rails |
| 2201/614 | . . Anti-derailing means |
| 2201/616 | . . to ensure mutual engagement, e.g. counter-rollers |
| 2201/618 | . . Transmission ratio variation |
2201/62 . . . Synchronisation of transmission members
2201/622 . . . Suspension or transmission members elements
2201/624 . . . Arms
2201/626 . . . . Levers
2201/628 . . . Bearings
2201/63 . . . Races
2201/632 . . . Sleeves
2201/636 . . . Universal or ball joints
2201/638 . . . Cams; Ramps
2201/64 . . . Carriers
2201/642 . . . Trackless carriers
2201/644 . . . Flexible elongated pulling elements; Members cooperating with flexible elongated pulling elements
2201/646 . . . continuous, e.g. closed loops
2201/648 . . . having teeth (toothed gearing E05Y 2201/71)
2201/652 . . . Belts
2201/654 . . . Cables
2201/656 . . . Chains
2201/658 . . . Members cooperating with flexible elongated pulling elements
2201/66 . . . . Deflectors; Guides
2201/662 . . . . Cable sheaths
2201/664 . . . . Drums
2201/666 . . . . Magazines
2201/668 . . . . Pulleys; Wheels
2201/67 . . . . in tackles
2201/672 . . . . Tensioners, tension sensors
2201/674 . . . . Friction wheels
2201/676 . . . . Transmission of human force
2201/678 . . . . Hand chains
2201/68 . . . . Handles, cranks
2201/682 . . . Pins
2201/684 . . . Rails
2201/686 . . . Rods, links
2201/688 . . . Rollers
2201/69 . . . . having inclined axes
2201/692 . . . . having vertical axes
2201/694 . . . . Scissor mechanisms
2201/696 . . . . Screw mechanisms
2201/70 . . . . Nuts
2201/702 . . . . Spindles; Worms
2201/704 . . . . Worm wheels
2201/706 . . . . Shafts
2201/708 . . . . Sliders (E05Y 2201/64 takes precedence)
2201/71 . . . . Toothed gearing
2201/712 . . . . with incomplete toothing
2201/716 . . . . Pinions
2201/718 . . . . Bevelled pinions
2201/72 . . . . . Planetary gearing
2201/722 . . . . . Racks
2201/724 . . . . . Flexible
2201/726 . . . . . Ring gears; Internal gears

2400/00 Electronic control; Power supply; Power or signal transmission; User interfaces
2400/10 . . . Electronic control
2400/20 . . . of brakes, disengaging means, holders or stops
2400/202 . . . Force or torque control (mechanical aspects E05Y 2201/25)
2400/21 . . . by controlling the viscosity
2400/30 . . . of motors

2400/302 . . . during electromotoric braking
2400/31 . . . Force or torque control
2400/315 . . . Curve setting or adjusting
2400/32 . . . Position control, detection or monitoring
2400/322 . . . by using absolute position sensors (sensors for electronic control of hinges, wings, windows as such E05Y 2400/44)
2400/324 . . . Switches
2400/326 . . . of the angular type
2400/328 . . . of the linear type
2400/33 . . . by using load sensors (sensors for electronic control of hinges, wings, windows as such E05Y 2400/44)
2400/332 . . . Switches
2400/334 . . . by using pulse generators
2400/336 . . . of the angular type
2400/337 . . . . Encoder generators
2400/338 . . . . of the linear type
2400/34 . . . Pulse count limit setting
2400/342 . . . Pulse count value setting or correcting
2400/35 . . . . related to specific positions
2400/354 . . . . End positions
2400/356 . . . . Prefixed intermediate positions
2400/358 . . . . . in the proximity of end positions
2400/36 . . . Speed control, detection or monitoring
2400/40 . . . . Control units therefore
2400/41 . . . . for multiple motors
2400/415 . . . . for multiple wings
2400/42 . . . . for multiple openings
2400/44 . . . Sensors therefore (E05Y 2400/322, E05Y 2400/33, E05Y 2400/55, E05Y 2400/56, E05Y 2400/552 take precedence)
2400/445 . . . Switches
2400/45 . . . . Control modes
2400/452 . . . . for saving energy
2400/454 . . . . for accommodating handicapped users
2400/456 . . . . for programming
2400/458 . . . . for generating service signals
2400/50 . . . . . Fault detection
2400/502 . . . . of components
2400/504 . . . . of control
2400/506 . . . . of counterbalance
2400/508 . . . . of detection
2400/51 . . . . . of position, of back drive
2400/512 . . . . of electric power
2400/514 . . . . of speed
2400/52 . . . . Safety arrangements (Safety means for manual wing operation E05Y 2800/116)
2400/522 . . . . Back-drive prevention
2400/525 . . . . . Car-jacking prevention
2400/53 . . . . . Wing impact prevention or reduction
2400/532 . . . . . Emergency braking
2400/54 . . . . . Obstruction or resistance detection
2400/55 . . . . . by using load sensors (sensors for electronic control of hinges, wings, windows as such E05Y 2400/44)
2400/552 . . . . . Switches
2400/554 . . . . . sensing motor load
2400/56 . . . . by using speed sensors (sensors for electronic control of hinges, wings, windows as such E05Y 2400/44)
2400/562 . . . . . Switches
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
2600/32 . . . . 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 rabbit
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
2800/205 . . . . 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 2400/52 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

2900/002 . . . for buildings or parts thereof
2900/10 . . . for cold-rooms
2900/102 . . . for elevators
2900/104 . . . for garages
2900/106 . . . 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 furniture, 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
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>2900/50</td>
<td>for vehicles</td>
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<td>2900/502</td>
<td>for aircraft</td>
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<td>for armored vehicles</td>
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<td>for buses</td>
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<td>for recreational vehicles</td>
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<td>for ships</td>
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<td>for trucks or trailers</td>
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<td>for working vehicles</td>
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<td>2900/53</td>
<td>characterized by the type of wing</td>
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<tr>
<td>2900/531</td>
<td>Doors</td>
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<td>2900/532</td>
<td>Back doors or end doors</td>
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<td>Fuel lids</td>
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<td>Hoods</td>
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<td>Interior lids</td>
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<td>Luggage compartment lids for buses</td>
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<td>Roof panels</td>
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<td>Tailboards or sideboards</td>
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<td>Tailgates</td>
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<td>Trunk lids</td>
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<td>Windows</td>
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<td>for machines</td>
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<td>2900/612</td>
<td>for manhole covers</td>
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<tr>
<td>2900/614</td>
<td>for toilet seats or covers</td>
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