

# 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<br>(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 47/00</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                |