

CPC COOPERATIVE PATENT CLASSIFICATION

E FIXED CONSTRUCTIONS

BUILDING

E05 LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES

(NOTE omitted)

E05Y INDEXING SCHEME ASSOCIATED WITH SUBCLASSES [E05D](#) AND [E05F](#), RELATING TO CONSTRUCTION ELEMENTS, ELECTRIC CONTROL, POWER SUPPLY, POWER SIGNAL OR TRANSMISSION, USER INTERFACES, MOUNTING OR COUPLING, DETAILS, ACCESSORIES, AUXILIARY OPERATIONS NOT OTHERWISE PROVIDED FOR, APPLICATION THEREOF

2201/00	Constructional elements; Accessories therefor	2201/416	. . . for counterbalancing
2201/10	. Covers; Housings	2201/418	. . . for holding
2201/11	. . Covers	2201/42	. . . for locking
2201/20	. Brakes; Disengaging means; Holders; Stops; Valves; Accessories therefor	2201/422	. . . for opening
2201/21	. . Brakes	2201/424	. . . . for the final opening movement
2201/212	. . . Buffers	2201/426	. . . . for the initial opening movement
2201/214	. . Disengaging means	2201/428	. . . for suspending or supporting
2201/216	. . . Clutches	2201/43	. . Motors
2201/218	. . Holders	2201/434	. . . Electromotors; Details thereof
2201/22	. . . Locks	2201/438	. . . . Rotors
2201/221	. . . . Touch latches	2201/442	. . . . Stators
2201/222	. . . Stabilizers, e.g. anti-rattle devices	2201/446	. . . . Windings
2201/224	. . Stops	2201/448	. . . Fluid motors; Details thereof
2201/23	. . Actuation thereof	2201/454	. . . . Cylinders
2201/232	. . . by automatically acting means	2201/456	. . . . Pistons
2201/234	. . . . direction dependent	2201/458	. . . . Valves
2201/236	. . . . using force or torque	2201/46	. . Magnets
2201/238	. . . . . reaction force or torque	2201/462	. . . Electromagnets
2201/24	. . . . using lost motion	2201/47	. . Springs
2201/242	. . . . using threshold speed	2201/474	. . . Compression springs
2201/244	. . . by manual operation	2201/476	. . . Disk springs
2201/246	. . . by auxiliary motors, magnets, springs or weights	2201/478	. . . Gas springs
2201/248	. . . Transmissions	2201/48	. . . Leaf or leg springs
2201/25	. . Mechanical means for force or torque adjustment therefor	2201/482	. . . Ribbon springs
2201/252	. . Type of friction	2201/484	. . . Torsion springs
2201/254	. . . Fluid or viscous friction	2201/486	. . . . Torsion rods
2201/256	. . . . with pistons or vanes	2201/488	. . . Traction springs
2201/258	. . . Magnetic or electromagnetic friction	2201/49	. . . Wrap springs
2201/26	. . . Mechanical friction	2201/496	. . . Double acting springs
2201/262	. . Type of motion, e.g. braking	2201/499	. . Spring tensioners; Tension sensors
2201/264	. . . linear	2201/50	. . Weights
2201/266	. . . rotary	2201/502	. . . Wing weights
2201/40	. Motors; Magnets; Springs; Weights; Accessories therefor	2201/60	. Suspension or transmission members; Accessories therefor
2201/404	. . Function thereof	2201/604	. . Transmission members
2201/406	. . . for a secondary movement of the wing	2201/606	. . Accessories therefor
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
		2201/616	. . . . . to ensure mutual engagement, e.g. counter- rollers

2201/618	. . .	Transmission ratio variation	2400/3013	. . .	during manual wing operation
2201/62	. . .	Synchronisation of suspension or transmission members	2400/3014	. . . .	Back driving the transmission or motor
2201/622	. .	Suspension or transmission members elements	2400/3015	. . . .	Power assistance
2201/624	. . .	Arms	2400/3016	. . . .	Overriding existing wing movement
2201/626	. . . .	Levers	2400/3017	. . . .	Safety means therefor
2201/628	. . .	Bearings	2400/302	. . .	during electric motor braking
2201/63	. . . .	Races	2400/304	. . .	Voltage control
2201/632	. . . .	Sleeves	2400/306	. . .	Temperature control
2201/636	. . . .	Universal or ball joints	2400/31	. . .	Force or torque control
2201/638	. . .	Cams; Ramps	2400/315	. . . .	Curve setting or adjusting
2201/64	. . .	Carriers	2400/32	. .	Position control, detection or monitoring
2201/642	. . . .	Trackless carriers	2400/322	. . .	by using absolute position sensors
2201/644	. . .	Flexible elongated pulling elements	2400/324	. . . .	Switches
2201/646	. . . .	continuous, e.g. closed loops	2400/326	. . . .	of the angular type
2201/648	. . . .	having teeth	2400/328	. . . .	of the linear type
2201/652	. . . .	Belts	2400/33	. . .	by using load sensors
2201/654	. . . .	Cables	2400/332	. . . .	Switches
2201/656	. . . .	Chains	2400/334	. . .	by using pulse generators
2201/658	. . .	Members cooperating with flexible elongated pulling elements	2400/336	. . . .	of the angular type
2201/66	. . . .	Deflectors; Guides	2400/337	. . . . .	Encoder wheels
2201/662	. . . . .	Cable sheaths	2400/338	. . . . .	of the linear type
2201/664	. . . .	Drums	2400/34	. . . .	Pulse count limit setting
2201/666	. . . .	Magazines	2400/342	. . . .	Pulse count value setting or correcting
2201/668	. . . .	Pulleys; Wheels	2400/35	. . .	related to specific positions
2201/67	. . . . .	in tackles	2400/354	. . . .	End positions
2201/672	. . . .	Tensioners, tension sensors	2400/356	. . . .	Intermediate positions
2201/674	. . .	Friction wheels	2400/358	. . . . .	in the proximity of end positions
2201/676	. . .	Transmission of human force	2400/36	. .	Speed control, detection or monitoring
2201/678	. . . .	Hand chains	2400/37	. . .	by using acceleration sensors
2201/68	. . . .	Handles, cranks	2400/40	. .	Control units therefor
2201/682	. . .	Pins	2400/41	. . .	for multiple motors
2201/684	. . .	Rails; Tracks	2400/415	. . . .	for multiple wings
2201/686	. . .	Rods, links	2400/42	. . . . .	for multiple openings
2201/688	. . .	Rollers	2400/44	. .	Sensors not directly associated with the wing movement
2201/69	. . . .	having inclined axes	2400/445	. . .	Switches
2201/692	. . . .	having vertical axes	2400/446	. . .	Vehicle state sensors, e.g. parked or inclination
2201/694	. . .	Scissor mechanisms	2400/447	. . .	Moisture or submergence sensors
2201/696	. . .	Screw mechanisms	2400/449	. . .	Pollutant or particulate sensors
2201/70	. . . .	Nuts	2400/45	. .	Control modes
2201/702	. . . .	Spindles; Worms	2400/452	. . .	for saving energy, e.g. sleep or wake-up
2201/704	. . . .	Worm wheels	2400/454	. . .	for accommodating handicapped users
2201/706	. . .	Shafts	2400/456	. . .	for programming, e.g. learning or AI [artificial intelligence]
2201/708	. . .	Sliders	2400/458	. . .	for generating service signals
2201/71	. . .	Toothed gearing	2400/50	. .	Fault detection
2201/712	. . . .	with incomplete toothing	2400/502	. . .	of components
2201/716	. . . .	Pinions	2400/504	. . .	of control, of software
2201/718	. . . . .	Bevelled pinions	2400/506	. . .	of counterbalance
2201/72	. . . .	Planetary gearing	2400/508	. . .	of detection
2201/722	. . . .	Racks	2400/51	. . .	of position, of back drive
2201/724	. . . . .	Flexible	2400/512	. . .	of electric power
2201/726	. . . .	Ring gears; Internal gears	2400/514	. . .	of speed
2400/00	Electronic control; Electrical power; Power supply; Power or signal transmission; User interfaces		2400/52	. .	Safety arrangements associated with the wing motor
2400/10	. .	Electronic control	2400/522	. . .	Back-drive prevention
2400/20	. .	of brakes, disengaging means, holders or stops	2400/525	. . .	Car-jacking prevention
2400/202	. . .	Force or torque control	2400/528	. . .	Overheating or overcooling prevention
2400/21	. . . .	by controlling the viscosity	2400/53	. . .	Wing impact prevention or reduction
2400/30	. .	of motors	2400/532	. . . .	Emergency braking or blocking
			2400/54	. . . .	Obstruction or resistance detection

2400/55	. . . . . by using load sensors	2600/45	. . in or on the fixed frame
2400/552	. . . . . Switches	2600/452	. . in or on the floor or wall
2400/554	. . . . . sensing motor load	2600/454	. . in or on the motor
2400/56	. . . . . by using speed sensors	2600/456	. . in or on a suspension member
2400/562	. . . . . Switches	2600/458	. . in or on a transmission member
2400/564	. . . . . sensing motor speed	2600/46	. . in or on the wing
2400/57	. . . . . Disabling thereof	2600/50	. Mounting methods; Positioning
2400/58	. . . . . Sensitivity setting or adjustment	2600/502	. . Clamping
2400/60	. Electrical power characteristics, e.g. pulsed or alternating powered and powerless modes	2600/504	. . Expansion
2400/61	. Power supply	2600/506	. . Plastic deformation
2400/612	. . Batteries	2600/508	. . . Riveting
2400/614	. . . charging thereof	2600/51	. . Screwing or bolting
2400/616	. . Generators	2600/52	. . Toolless
2400/628	. . Solar cells	2600/522	. . . Axial stacking
2400/65	. Power or signal transmission	2600/524	. . . Friction
2400/652	. . by bus	2600/526	. . . Gluing or cementing
2400/654	. . by electrical cables	2600/528	. . . Hooking, e.g. using bayonets; Locking
2400/656	. . by travelling contacts	2600/53	. . . Snapping
2400/658	. . . with current rails	2600/54	. . Welding
2400/66	. . Wireless transmission	2600/56	. . Positioning, e.g. re-positioning, or pre-mounting
2400/662	. . . by optical waves	2600/58	. . . by using indicators or markings, e.g. scales
2400/664	. . . by radio waves	2600/60	. Mounting or coupling members; Accessories therefor
2400/80	. User interfaces	2600/61	. . Threaded members
2400/81	. . Feedback to user, e.g. tactile	2600/62	. . Bolts
2400/812	. . . Acoustic	2600/622	. . Dowels; Pins
2400/814	. . . . Sound emitters, e.g. loudspeakers	2600/624	. . Nuts
2400/816	. . . . . Voice	2600/626	. . Plates or brackets
2400/818	. . . Visual	2600/628	. . Profiles; Strips
2400/82	. . . . Images; Symbols	2600/63	. . Retainers
2400/822	. . . . Light emitters, e.g. light emitting diodes [LED]	2600/632	. . Screws
2400/83	. . . Travel information display	2600/634	. . Spacers
2400/85	. . User input means	2600/636	. . . Washers
2400/8505	. . . User authentication, e.g. biometric	2800/00	Details, accessories and auxiliary operations not otherwise provided for
2400/851	. . . Voice	2800/10	. Additional functions
2400/8515	. . . Smart phones; Tablets	2800/102	. . Additional wing movements
2400/852	. . . Sensors	2800/104	. . Heating
2400/854	. . . . Switches	2800/106	. . Lighting
2400/856	. . . Actuation thereof	2800/108	. . Lubrication
2400/858	. . . . by body parts, e.g. by feet	2800/12	. . Sealing
2400/86	. . . . . by hand	2800/122	. . Telescopic action
2600/00	Mounting or coupling arrangements for elements provided for in this subclass	2800/13	. . Sequential actions
2600/10	. Adjustable	2800/15	. Applicability
2600/11	. . by automatically acting means	2800/16	. . Applicable on combinations of fixed and movable wings
2600/12	. . by manual operation	2800/162	. . . the wings being coplanar when the movable wing is in the closed position
2600/13	. . by motors, magnets, springs or weights	2800/17	. . Universally applicable
2600/14	. . with position retaining means	2800/172	. . . on different wing or frame locations
2600/20	. . with specific transmission movement	2800/174	. . . . on the left or right side
2600/30	. . Adjustment motion	2800/176	. . . . on different wing types, weights or sizes
2600/31	. . . Linear motion	2800/178	. . . . on wings having different thicknesses
2600/312	. . . . Horizontal motion	2800/20	. Combinations of elements
2600/314	. . . . Vertical motion	2800/205	. . forming a unit
2600/32	. . . Rotary motion	2800/21	. . of identical elements, e.g. of identical compression springs
2600/322	. . . . around a horizontal axis	2800/22	. . of not identical elements of the same category, e.g. combinations of not identical springs
2600/324	. . . . around a vertical axis	2800/23	. . of elements of different categories
2600/33	. . . Stepwise motion	2800/232	. . . of motors and transmissions
2600/40	. Mounting location; Visibility of the elements		
2600/41	. . Concealed		
2600/412	. . . in the rabbet		

2800/234	. . . of motors and brakes; of motors and locks	2800/465	. . Pressing
2800/236	. . . of motors and springs	2800/67	. Materials; Strength alteration thereof
2800/238	. . . of springs and transmissions	2800/672	. . Glass
2800/24	. . . of springs and brakes	2800/674	. . Metal
2800/242	. . arranged in parallel relationship	2800/676	. . Plastics
2800/244	. . arranged in serial relationship	2800/678	. . . Elastomers
2800/246	. . with at least one element being redundant	2800/68	. . Combinations of materials creating distinct article parts
2800/25	. Emergency conditions	2800/682	. . Strength alteration by reinforcing, e.g. by applying ribs
2800/252	. . the elements functioning only in case of emergency	2800/683	. . . by fibre reinforcement
2800/254	. . the elements not functioning in case of emergency	2800/684	. . Strength alteration by weakening, e.g. by applying grooves
2800/26	. Form or shape	2800/69	. Permanence of use
2800/262	. . column shaped	2800/692	. . Temporary use, e.g. removable tools
2800/266	. . curved	2800/694	. . during manufacturing
2800/268	. . cylindrical; disc-shaped; circular	2800/696	. . during transport or storage
2800/269	. . ball shaped, e.g. spherical	2800/70	. Retrofitting of elements
2800/27	. . Profiles; Strips	2800/71	. Secondary wings, e.g. pass doors
2800/272	. . . hollow	2800/72	. Sets of mutually exchangeable elements, e.g. modular
2800/276	. . . . U-shaped	2800/73	. Multiple functions
2800/278	. . . . C-shaped	2800/74	. Specific positions
2800/28	. . tubular, annular	2800/742	. . abnormal
2800/29	. . forming a unitary piece with another element	2800/744	. . . cleaning or service
2800/292	. . having apertures	2800/746	. . . emergency or extended
2800/296	. . . Slots	2800/748	. . end
2800/298	. . having indentations	2800/75	. . intermediate
2800/30	. . inclined, angled		
2800/31	. . eccentric	2900/00	Application of doors, windows, wings or fittings thereof
2800/33	. . having protrusions	2900/10	. for buildings or parts thereof
2800/34	. Form stability	2900/102	. . for cold-rooms
2800/342	. . Deformable	2900/104	. . for elevators
2800/344	. . . elastically	2900/106	. . for garages
2800/35	. . . of specific parts	2900/108	. . for hangars
2800/352	. Frames; Posts	2900/11	. . for industrial buildings
2800/353	. . fixed	2900/112	. . for restrooms
2800/356	. . . horizontal frame members	2900/114	. . for showers
2800/358	. . . vertical frame members or posts	2900/116	. . for sluices
2800/36	. . Movable frames	2900/13	. . Type of wing
2800/362	. . . horizontal frame members	2900/131	. . . Access panels
2800/364	. . . vertical frame members	2900/132	. . . Doors
2800/37	. Length, width or depth adjustment	2900/134	. . . . Fire doors
2800/372	. . Telescopically	2900/136	. . . . Screens; Insect doors
2800/40	. Physical or chemical protection	2900/14	. . . . Doors disappearing in pockets of a wall, e.g. so-called pocket doors
2800/402	. . against corrosion	2900/142	. . . Partition walls
2800/404	. . against component faults or failure	2900/144	. . . Security grills
2800/406	. . against deformation	2900/146	. . . Shutters
2800/407	. . . plastic deformation	2900/148	. . . Windows
2800/409	. . against faulty mounting or coupling	2900/15	. . . . Balcony glazing
2800/41	. . against finger injury	2900/152	. . . . Roof windows
2800/412	. . against friction	2900/154	. . . . . Skylights
2800/414	. . against high or low temperatures	2900/20	. for furniture, e.g. cabinets
2800/416	. . . against fire	2900/202	. . for display cabinets, e.g. for refrigerated cabinets
2800/42	. . against smoke or gas	2900/204	. . for display counters, e.g. for refrigerated counters
2800/422	. . against vibration or noise	2900/208	. . for metal cabinets
2800/424	. . against unintended use, e.g. protection against vandalism or sabotage	2900/21	. . for safety cabinets
2800/426	. . . against unauthorised use, e.g. keys	2900/212	. . Doors disappearing in pockets in the furniture body
2800/428	. . against water or ice	2900/30	. for domestic appliances
2800/43	. . against wear		
2800/45	. Manufacturing		
2800/455	. . Extrusion		
2800/46	. . Injection moulding		

E05Y

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 or laundry dryers
2900/40	.	for gates
2900/402	. .	for cantilever gates
2900/404	. .	for railway platform gates
2900/50	.	for vehicles
2900/502	. .	for aircraft or spacecraft
2900/504	. .	for armoured 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	. .	Type of wing
2900/531	. . .	Doors
2900/532	. . . .	Back doors or end doors
2900/534	. . .	Fuel lids, charger lids
2900/535	. . .	Hatch covers, e.g. for recreational vehicles or armoured vehicles
2900/536	. . .	Hoods
2900/538	. . .	Interior lids
2900/54	. . .	Luggage compartment lids for buses
2900/542	. . .	Roof panels
2900/544	. . .	Tailboards, tailgates or sideboards opening downwards
2900/546	. . .	Tailboards, tailgates or sideboards opening upwards
2900/548	. . .	Trunk lids
2900/55	. . .	Windows
2999/00	Subject-matter not otherwise provided for in this subclass	