

CPC COOPERATIVE PATENT CLASSIFICATION

E FIXED CONSTRUCTIONS

BUILDING

E05 LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES

(NOTE omitted)

E05F DEVICES FOR MOVING WINGS INTO OPEN OR CLOSED POSITION; CHECKS FOR WINGS; WING FITTINGS NOT OTHERWISE PROVIDED FOR, CONCERNED WITH THE FUNCTIONING OF THE WING

NOTE

In this subclass, the following terms are used with the meanings indicated:

- "closer" or "opener" includes devices for assisting wing-movement or for wing-counterbalancing.

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	Closers or openers for wings, not otherwise provided for in this subclass	1/105	. . . . {with a compression spring}
1/002	. {controlled by automatically acting means (for powered-operated mechanisms E05F 15/70)}	1/1058	. . . . . {for counterbalancing}
1/004	. . {by thermostats, rain, wind or noise (E05F 1/006 takes precedence)}	1/1066	. . . . . {with a traction spring}
1/006	. . {by emergency conditions, e.g. fire (operating or controlling mechanisms for physical fire-barriers A62C 2/24)}	1/1075	. . . . . {for counterbalancing}
1/008	. . {by time control}	1/1083	. . . {with a leaf or similar spring (E05F 1/1284 takes precedence)}
1/02	. gravity-actuated {, e.g. by use of counterweights}	1/1091	. . . {with a gas spring (E05F 1/1292 takes precedence)}
1/025	. . {with rectilinearly-moving counterweights}	1/12	. . . Mechanisms in the shape of hinges or pivots, operated by springs
1/04	. . for wings which lift during movement {, operated by their own weight}	1/1207	. . . . . {with a coil spring parallel with the pivot axis}
1/043	. . . {with cams, helical tracks (E05F 1/061 takes precedence)}	1/1215	. . . . . {with a canted-coil torsion spring}
1/046	. . . {with rectilinearly-inclined tracks for sliding wings}	1/1223	. . . . . {with a compression or traction spring}
1/06	. . . Mechanisms in the shape of hinges or pivots, operated by the weight of the wing	1/123	. . . . . {with a torsion bar}
1/061	. . . . . {with cams or helical tracks}	1/1238	. . . . . {specially adapted for vehicles}
1/063	. . . . . {with complementary, substantially identical and slidingly cooperating cam surfaces (E05F 1/066 takes precedence)}	1/1246	. . . . . {with a coil spring perpendicular to the pivot axis}
1/065	. . . . . {Cam-and-wheel arrangements}	1/1253	. . . . . {with a compression spring}
1/066	. . . . . {Helical grooves, slots, threads or the like}	1/1261	. . . . . {for counterbalancing}
1/068	. . . . . {with inclined pivot-axes}	1/1269	. . . . . {with a traction spring}
1/08	. spring-actuated {, e.g. for horizontally sliding wings (counterbalancing sliding or lifting wings E05D ; springs per se F16F , e.g. gas-springs F16F 9/00)}	1/1276	. . . . . {for counterbalancing}
1/10	. . for swinging wings {, e.g. counterbalance}	1/1284	. . . . . {with a leaf or similar spring}
1/1008	. . . {with a coil spring parallel with the pivot axis (E05F 1/1207 takes precedence)}	1/1292	. . . . . {with a gas spring}
1/1016	. . . . . {with a canted-coil torsion spring}	1/14	. . . with double-acting springs, e.g. for closing and opening or checking and closing {no material}
1/1025	. . . . . {with a compression or traction spring}	1/16	. . for sliding wings
1/1033	. . . {with a torsion bar (E05F 1/123 takes precedence)}	3/00	Closers or openers with braking devices, e.g. checks; Construction of pneumatic or liquid braking devices (construction of non-pneumatic or non-liquid braking devices E05F 5/00; friction devices in hinges E05D 11/08)
1/1041	. . . {with a coil spring perpendicular to the pivot axis (E05F 1/1246 takes precedence)}	3/02	. with pneumatic piston brakes (rotary type E05F 3/14)
		3/04	. with liquid piston brakes (rotary type E05F 3/14)
		3/06	. . in which a torsion spring rotates a member around an axis perpendicular to the axis of the piston

3/08	. . in which a torsion spring rotates a member around an axis arranged in the direction of the axis of the piston	5/04	. . hand-operated {, e.g. removable}; operated by centrifugal action {or by high closing speed}
3/10	. . with a spring, other than a torsion spring, and a piston, the axes of which are the same or lie in the same direction	2005/043	. . . {operated by centrifugal action at high closing speed}
3/102	. . . {with rack-and-pinion transmission between driving shaft and piston within the closer housing}	2005/046	. . . {hand operated}
3/104	. . . {with cam-and-slide transmission between driving shaft and piston within the closer housing}	5/06	. Buffers {or stops limiting opening of swinging wings, e.g. floor or wall stops}(E05F 5/02 takes precedence)
3/106	. . . {with crank-arm transmission between driving shaft and piston within the closer housing}	5/08	. . with springs
3/108	. . . {with piston rod protruding from the closer housing; Telescoping closers}	5/10	. . with piston brakes
3/12	. . Special devices controlling the circulation of the liquid, e.g. valve arrangement ({E05F 3/223 takes precedence}; valves per se F16K)	5/12	. specially for preventing the closing of a wing before another wing has been closed
3/14	. with fluid brakes of the rotary type	7/00	Accessories for wings not provided for in other groups of this subclass (specially adapted for furniture A47B 95/00; door-lifters B66F, E04F 21/00; knobs or handles E05B)
3/16	. with friction brakes	7/005	. {Aligning devices for wings}
3/18	. with counteracting springs (double-acting springs E05F 1/14)	7/02	. for raising wings before being turned {(before sliding E05D 15/565)}
3/20	. in hinges	7/04	. Arrangements affording protection against rattling (with buffering action E05F 5/00)
3/22	. Additional arrangements for closers, e.g. for holding the wing in opened or other position	7/06	. Devices for taking the weight of the wing, arranged away from the hinge axis
3/221	. . {Mechanical power-locks, e.g. for holding the wing open or for free-moving zones}	7/08	. Means for transmitting movements between vertical and horizontal sliding bars, rods, or cables (means for transmitting movements between vertical and horizontal sliding bars, rods, or cables, for the fastening of wings E05C 9/24 {; with means for transmitting movements between vertical and horizontal sliding bars, rods or cables E05D 15/5208 })
3/222	. . . {electrically operated (E05F 3/223 takes precedence)}		
3/223	. . {Hydraulic power-locks, e.g. with electrically operated hydraulic valves}	Operating mechanisms for wings	
3/224	. . {for assisting in opening the wing}	9/00	Means for operating wings by hand rods not guided in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C)
3/225	. . {mounted at the bottom of wings, e.g. details related to seals, covers, connections to the wings, embedding in the floor}	11/00	Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00)
3/226	. . . {with means to adjust the closed position of the wing}	11/02	. for wings in general, e.g. fanlights (E05F 11/36 takes precedence ; for windows to be lowered vertically E05F 11/38 ; for doors E05F 11/54)
3/227	. . {mounted at the top of wings, e.g. details related to closer housings, covers, end caps or rails therefor}	11/04	. . with cords, chains or cables
2003/228	. . {Arrangements where the end of the closer arm is sliding in a track}	11/06	. . . in guide-channels
5/00	Braking devices, e.g. checks; Stops; Buffers (construction of pneumatic or liquid braking devices E05F 3/00; braking devices, buffers or end stops on drawers for tables, cabinets or like furniture A47B 88/473; combined with devices for holding wings open E05C 17/00; devices for limiting opening of wings or for holding wings open by a movable member extending between frame and wing E05C 17/04)	11/08	. . with longitudinally-moving bars guided, e.g. by pivoted links, in or on the frame
5/003	. {for sliding wings (Fasteners specially adapted for holding sliding wings open E05D 13/04)}	11/10	. . . Mechanisms by which a handle moves the bar
5/006	. {for hinges having a cup-shaped fixing part, e.g. for attachment to cabinets or furniture}	11/12	. . . Mechanisms by which the bar shifts the wing
5/02	. specially for preventing the slamming of {swinging} wings {during final closing movement, e.g. jamb stops}	11/14	. . . . directly, i.e. without links, shifting the wing, e.g. by rack and gear or pin and slot
5/022	. . {specially adapted for vehicles, e.g. for hoods or trunks}	11/145	. . . . . {by pin and slot}
5/025	. . . {specially adapted for vehicle doors}	11/16	. . . . shifting the wing by pivotally-connected members {(moving) in a plane perpendicular to the pivot axis of the wing}
5/027	. . {with closing action}	11/18	. . . . . consisting of a lever, e.g. an angle lever, only {no material}
		11/20	. . . . . consisting of a lever, e.g. an angle lever, and only one additional link {no material}
		11/22	. . . . . consisting of a lever, e.g. an angle lever, and two or more additional links in series {no material}

- 11/24 shifting the wing by pivotally-connected members **{(moving) in a plane parallel to the pivot axis of the wing}**
- 11/26 consisting of a lever, e.g. an angle lever, only **{no material}**
- 11/28 consisting of a lever, e.g. an angle lever, and one or more additional links **{no material}**
- 11/30 consisting of links in rhomb-form **{no material}**
- 11/32 . . with rotary bars guided in the frame ([E05F 11/34](#) takes precedence)
- 11/34 . . with screw mechanisms
- 11/36 . specially designed for passing through a wall
- 11/38 . for sliding windows, e.g. vehicle windows, to be opened or closed by vertical movement
- WARNING**
- Group [E05F 11/38](#) is impacted by reclassification into groups [E05F 15/6892](#), [E05F 15/6894](#), [E05F 15/6896](#), [E05F 15/6899](#), [E05F 15/6901](#), [E05F 15/6903](#), [E05F 15/6905](#), [E05F 15/6907](#), [E05F 15/6909](#), [E05F 15/6911](#), [E05F 15/6914](#), [E05F 15/6916](#) and [E05F 15/6918](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 11/382 . . **{for vehicle windows ([E05F 11/40](#) - [E05F 11/52](#) take precedence)}**
- WARNING**
- Group [E05F 11/382](#) is impacted by reclassification into groups [E05F 15/6892](#), [E05F 15/6894](#), [E05F 15/6896](#), [E05F 15/6899](#), [E05F 15/6901](#), [E05F 15/6903](#), [E05F 15/6905](#), [E05F 15/6907](#), [E05F 15/6909](#), [E05F 15/6911](#), [E05F 15/6914](#), [E05F 15/6916](#) and [E05F 15/6918](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 11/385 . . . **{Fixing of window glass to the carrier of the operating mechanism}**
- WARNING**
- Group [E05F 11/385](#) is impacted by reclassification into groups [E05F 15/6892](#) and [E05F 15/6894](#).
- Groups [E05F 11/385](#), [E05F 15/6892](#) and [E05F 15/6894](#) should be considered in order to perform a complete search.
- 2011/387 **{using arrangements in the window glass, e.g. holes}**
- WARNING**
- Group [E05F 2011/387](#) is impacted by reclassification into group [E05F 15/6894](#).
- Groups [E05F 2011/387](#) and [E05F 15/6894](#) should be considered in order to perform a complete search.
- 11/40 . . operated by screw mechanism
- WARNING**
- Group [E05F 11/40](#) is impacted by reclassification into group [E05F 15/6896](#).
- Groups [E05F 11/40](#) and [E05F 15/6896](#) should be considered in order to perform a complete search.
- 11/405 . . . **{for vehicle windows}**
- WARNING**
- Group [E05F 11/405](#) is impacted by reclassification into group [E05F 15/6896](#).
- Groups [E05F 11/405](#) and [E05F 15/6896](#) should be considered in order to perform a complete search.
- 11/42 . . operated by rack bars and toothed wheels **{or other push-pull mechanisms}**
- WARNING**
- Group [E05F 11/42](#) is impacted by reclassification into groups [E05F 15/6899](#) and [E05F 15/6901](#).
- Groups [E05F 11/42](#), [E05F 15/6899](#) and [E05F 15/6901](#) should be considered in order to perform a complete search.
- 11/423 . . . **{for vehicle windows}**
- WARNING**
- Group [E05F 11/423](#) is impacted by reclassification into groups [E05F 15/6899](#) and [E05F 15/6901](#).
- Groups [E05F 11/423](#), [E05F 15/6899](#) and [E05F 15/6901](#) should be considered in order to perform a complete search.
- 11/426 **{Flexible rack-and-pinion arrangements}**
- WARNING**
- Group [E05F 11/426](#) is impacted by reclassification into group [E05F 15/6901](#).
- Groups [E05F 11/426](#) and [E05F 15/6901](#) should be considered in order to perform a complete search.
- 11/44 . . operated by one or more lifting arms
- WARNING**
- Group [E05F 11/44](#) is impacted by reclassification into groups [E05F 15/6903](#) and [E05F 15/6905](#).
- Groups [E05F 11/44](#), [E05F 15/6903](#) and [E05F 15/6905](#) should be considered in order to perform a complete search.
- 11/445 . . . **{for vehicle windows}**
- WARNING**
- Group [E05F 11/445](#) is impacted by reclassification into groups [E05F 15/6903](#) and [E05F 15/6905](#).
- Groups [E05F 11/445](#), [E05F 15/6903](#) and [E05F 15/6905](#) should be considered in order to perform a complete search.

- 11/46 . . . operated by lazy-tongs mechanism
 - WARNING**
 - Group [E05F 11/46](#) is impacted by reclassification into groups [E05F 15/6903](#) and [E05F 15/6905](#).
 - Groups [E05F 11/46](#), [E05F 15/6903](#) and [E05F 15/6905](#) should be considered in order to perform a complete search.
- 11/465 . . . {for vehicle windows}
 - WARNING**
 - Group [E05F 11/465](#) is impacted by reclassification into groups [E05F 15/6903](#) and [E05F 15/6905](#).
 - Groups [E05F 11/465](#), [E05F 15/6903](#) and [E05F 15/6905](#) should be considered in order to perform a complete search.
- 11/48 . . . operated by cords or chains {or other flexible elongated pulling elements, e.g. tapes}
 - WARNING**
 - Group [E05F 11/48](#) is impacted by reclassification into groups [E05F 15/6907](#), [E05F 15/6909](#), [E05F 15/6911](#), [E05F 15/6914](#) and [E05F 15/6916](#).
 - All groups listed in this Warning should be considered in order to perform a complete search.
- 11/481 . . . {for vehicle windows}
 - WARNING**
 - Group [E05F 11/481](#) is impacted by reclassification into groups [E05F 15/6907](#), [E05F 15/6909](#), [E05F 15/6911](#), [E05F 15/6914](#) and [E05F 15/6916](#).
 - All groups listed in this Warning should be considered in order to perform a complete search.
- 11/483 {by cables}
 - WARNING**
 - Group [E05F 11/483](#) is impacted by reclassification into groups [E05F 15/6909](#), [E05F 15/6911](#), [E05F 15/6914](#) and [E05F 15/6916](#).
 - All groups listed in this Warning should be considered in order to perform a complete search.
- 11/485 {with cable tensioners}
 - WARNING**
 - Group [E05F 11/485](#) is impacted by reclassification into group [E05F 15/6911](#).
 - Groups [E05F 11/485](#) and [E05F 15/6911](#) should be considered in order to perform a complete search.
- 11/486 {with one cable connection to the window glass}
 - WARNING**
 - Group [E05F 11/486](#) is impacted by reclassification into group [E05F 15/6914](#).
 - Groups [E05F 11/486](#) and [E05F 15/6914](#) should be considered in order to perform a complete search.
- 11/488 {with two cable connections to the window glass}
 - WARNING**
 - Group [E05F 11/488](#) is impacted by reclassification into group [E05F 15/6916](#).
 - Groups [E05F 11/488](#) and [E05F 15/6916](#) should be considered in order to perform a complete search.
- 11/50 . . . Crank gear with clutches or retaining brakes, for operating window mechanisms
 - WARNING**
 - Group [E05F 11/50](#) is impacted by reclassification into group [E05F 15/6918](#).
 - Groups [E05F 11/50](#) and [E05F 15/6918](#) should be considered in order to perform a complete search.
- 11/505 . . . {for vehicle windows}
 - WARNING**
 - Group [E05F 11/505](#) is impacted by reclassification into group [E05F 15/6918](#).
 - Groups [E05F 11/505](#) and [E05F 15/6918](#) should be considered in order to perform a complete search.
- 11/52 . . . combined with means for producing an additional movement, e.g. a horizontal or a rotary movement
 - WARNING**
 - Group [E05F 11/52](#) is impacted by reclassification into groups [E05F 15/6892](#), [E05F 15/6894](#), [E05F 15/6896](#), [E05F 15/6899](#), [E05F 15/6901](#), [E05F 15/6903](#), [E05F 15/6905](#), [E05F 15/6907](#), [E05F 15/6909](#), [E05F 15/6911](#), [E05F 15/6914](#), [E05F 15/6916](#) and [E05F 15/6918](#).
 - All groups listed in this Warning should be considered in order to perform a complete search.

- 11/525 . . . {for vehicle windows}
- WARNING**
- Group [E05F 11/525](#) is impacted by reclassification into groups [E05F 15/6892](#), [E05F 15/6894](#), [E05F 15/6896](#), [E05F 15/6899](#), [E05F 15/6901](#), [E05F 15/6903](#), [E05F 15/6905](#), [E05F 15/6907](#), [E05F 15/6909](#), [E05F 15/6911](#), [E05F 15/6914](#), [E05F 15/6916](#) and [E05F 15/6918](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 11/53 . . for sliding windows, e.g. vehicle windows, to be opened or closed by horizontal movement
- 11/535 . . {for vehicle windows}
- 11/54 . . for doors
- 13/00 Mechanisms operated by the movement or weight of a person or vehicle (through power-operated wing-operating mechanisms [E05F 15/00](#))**
- 13/02 . . by devices, e.g. lever arms, affected by the movement of the user
- 13/04 . . by platforms lowered by the weight of the user
- 15/00 Power-operated mechanisms for wings (motor-operated accessories in locks for completing closing or initiating opening of a wing [E05B 17/00](#))**
- 15/40 . . Safety devices, e.g. detection of obstructions or end positions
- 15/41 . . Detection by monitoring transmitted force or torque ([E05F 15/48 takes precedence](#)); Safety couplings with activation dependent upon torque or force, e.g. slip couplings
- 15/42 . . Detection using safety edges
- 15/43 . . . responsive to disruption of energy beams, e.g. light or sound
- 15/431 {specially adapted for vehicle windows or roofs}
- 2015/432 {with acoustical sensors}
- 2015/433 {using reflection from the obstruction}
- 2015/434 {with cameras or optical sensors}
- 2015/435 {by interruption of the beam}
- 2015/436 {the beam being parallel to the wing edge}
- 2015/437 {the beam being perpendicular to the wing edge}
- 15/44 . . . responsive to changes in electrical conductivity
- 15/443 {specially adapted for vehicle windows or roofs}
- 2015/447 {using switches in serial arrangement}
- 15/46 . . . responsive to changes in electrical capacitance
- 15/47 . . . responsive to changes in fluid pressure
- 15/48 . . . by transmission of mechanical forces, e.g. rigid or movable members
- 2015/483 . . . {for detection during opening}
- 2015/487 . . . {Fault detection of safety edges}
- 15/49 . . specially adapted for mechanisms operated by fluid pressure, e.g. detection by monitoring transmitted fluid pressure ([E05F 15/47 takes precedence](#))
- 15/50 . . using fluid-pressure actuators
- 15/51 . . for folding wings
- 15/53 . . for swinging wings
- 15/54 . . . operated by linear actuators acting on a helical track coaxial with the swinging axis
- 15/56 . . for horizontally-sliding wings
- 15/565 . . . {for railway-cars}
- 15/57 . . for vertically-sliding wings
- 15/59 . . . for overhead wings
- 15/60 . . using electrical actuators
- 15/603 . . using rotary electromotors
- 15/605 . . . for folding wings
- 15/608 . . . for revolving wings
- 15/611 . . . for swinging wings
- 15/614 operated by meshing gear wheels, one of which being mounted at the wing pivot axis; operated by a motor acting directly on the wing pivot axis
- 15/616 operated by push-pull mechanisms
- 15/619 using flexible or rigid rack-and-pinion arrangements
- 15/622 using screw-and-nut mechanisms
- 15/624 using friction wheels
- 15/627 operated by flexible elongated pulling elements, e.g. belts, chains or cables ([using flexible elongated push-pull mechanisms \[E05F 15/619\]\(#\)](#))
- NOTE**
- In this group, it is desirable to add the indexing codes of [E05Y 2201/644](#).
- 15/63 operated by swinging arms
- 2015/631 {the end of the arm sliding in a track; Slider arms therefor}
- 15/632 . . . for horizontally-sliding wings
- 15/635 operated by push-pull mechanisms, e.g. flexible or rigid rack-and-pinion arrangements ([E05F 15/652 takes precedence](#))
- 15/638 allowing or involving a secondary movement of the wing, e.g. rotational or transversal
- 15/641 operated by friction wheels
- 15/643 operated by flexible elongated pulling elements, e.g. belts, chains or cables ([by flexible elongated push-pull mechanisms \[E05F 15/635\]\(#\)](#))
- 15/646 allowing or involving a secondary movement of the wing, e.g. rotational or transversal
- 15/649 operated by swinging arms
- 15/652 operated by screw-and-nut mechanisms
- 15/655 specially adapted for vehicle wings
- 15/657 enabling manual drive, e.g. in case of power failure
- 15/659 Control circuits therefor
- 15/662 Motor units therefor, e.g. geared motors
- 15/665 . . . for vertically-sliding wings
- 15/668 for overhead wings
- 15/67 operated by flexible or rigid rack-and-pinion arrangements
- 15/673 operated by screw-and-nut mechanisms
- 15/676 operated by friction wheels
- 15/678 operated by swinging lever arms

- 15/681 operated by flexible elongated pulling elements, e.g. belts
- 15/684 by chains
- 15/686 by cables or ropes
- 15/689 specially adapted for vehicle windows

WARNING

Group [E05F 15/689](#) is impacted by reclassification into groups [E05F 15/6892](#), [E05F 15/6894](#), [E05F 15/6896](#), [E05F 15/6899](#), [E05F 15/6901](#), [E05F 15/6903](#), [E05F 15/6905](#), [E05F 15/6907](#), [E05F 15/6909](#), [E05F 15/6911](#), [E05F 15/6914](#), [E05F 15/6916](#) and [E05F 15/6918](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 15/6892 {Fixing of window glass to the carrier of the operating mechanism}

WARNING

Group [E05F 15/6892](#) is incomplete pending reclassification of documents from groups [E05F 11/38](#), [E05F 11/382](#), [E05F 11/385](#), [E05F 11/52](#), [E05F 11/525](#), [E05F 15/689](#), [E05F 15/692](#), [E05F 15/695](#) and [E05F 15/697](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 15/6894 {using arrangements in the window glass, e.g. holes}

WARNING

Group [E05F 15/6894](#) is incomplete pending reclassification of documents from groups [E05F 11/38](#), [E05F 11/382](#), [E05F 11/385](#), [E05F 2011/387](#), [E05F 11/52](#), [E05F 11/525](#), [E05F 15/689](#), [E05F 15/692](#), [E05F 15/695](#) and [E05F 15/697](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 15/6896 {operated by screw mechanism}

WARNING

Group [E05F 15/6896](#) is incomplete pending reclassification of documents from groups [E05F 11/38](#), [E05F 11/382](#), [E05F 11/40](#), [E05F 11/405](#), [E05F 11/52](#), [E05F 11/525](#), [E05F 15/689](#), [E05F 15/692](#), [E05F 15/695](#) and [E05F 15/697](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 15/6899 {operated by rack bars and toothed wheels or other push-pull mechanisms}

WARNING

Group [E05F 15/6899](#) is incomplete pending reclassification of documents from groups [E05F 11/38](#), [E05F 11/382](#), [E05F 11/42](#), [E05F 11/423](#), [E05F 11/52](#), [E05F 11/525](#), [E05F 15/689](#), [E05F 15/692](#), [E05F 15/695](#) and [E05F 15/697](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 15/6901 {Flexible rack-and-pinion arrangements}

WARNING

Group [E05F 15/6901](#) is incomplete pending reclassification of documents from groups [E05F 11/38](#), [E05F 11/382](#), [E05F 11/42](#), [E05F 11/423](#), [E05F 11/426](#), [E05F 11/52](#), [E05F 11/525](#), [E05F 15/689](#), [E05F 15/692](#), [E05F 15/695](#) and [E05F 15/697](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 15/6903 {operated by one or more lifting arms}

WARNING

Groups [E05F 15/6903](#) and [E05F 15/6905](#) are incomplete pending reclassification of documents from groups [E05F 11/38](#), [E05F 11/382](#), [E05F 11/44](#), [E05F 11/445](#), [E05F 11/46](#), [E05F 11/465](#), [E05F 11/52](#), [E05F 11/525](#), [E05F 15/689](#), [E05F 15/692](#), [E05F 15/695](#) and [E05F 15/697](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 15/6905 {operated by lazy-tongs mechanism}

- 15/6907 {operated by cords or chains or other flexible elongated pulling elements, e.g. tapes}

WARNING

Group [E05F 15/6907](#) is incomplete pending reclassification of documents from groups [E05F 11/38](#), [E05F 11/382](#), [E05F 11/48](#), [E05F 11/481](#), [E05F 11/52](#), [E05F 11/525](#), [E05F 15/689](#), [E05F 15/692](#), [E05F 15/695](#) and [E05F 15/697](#).

All groups listed in this Warning should be considered in order to perform a complete search.

15/6909 {by cables}

WARNING

Group [E05F 15/6909](#) is incomplete pending reclassification of documents from groups [E05F 11/38](#), [E05F 11/382](#), [E05F 11/48](#), [E05F 11/481](#), [E05F 11/483](#), [E05F 11/52](#), [E05F 11/525](#), [E05F 15/689](#), [E05F 15/692](#), [E05F 15/695](#) and [E05F 15/697](#).

All groups listed in this Warning should be considered in order to perform a complete search.

15/6911 {with cable tensioners}

WARNING

Group [E05F 15/6911](#) is incomplete pending reclassification of documents from groups [E05F 11/38](#), [E05F 11/382](#), [E05F 11/48](#), [E05F 11/481](#), [E05F 11/483](#), [E05F 11/485](#), [E05F 11/52](#), [E05F 11/525](#), [E05F 15/689](#), [E05F 15/692](#), [E05F 15/695](#) and [E05F 15/697](#).

All groups listed in this Warning should be considered in order to perform a complete search.

15/6914 {with one cable connection to the window glass}

WARNING

Group [E05F 15/6914](#) is incomplete pending reclassification of documents from groups [E05F 11/38](#), [E05F 11/382](#), [E05F 11/48](#), [E05F 11/481](#), [E05F 11/483](#), [E05F 11/486](#), [E05F 11/52](#), [E05F 11/525](#), [E05F 15/689](#), [E05F 15/692](#), [E05F 15/695](#) and [E05F 15/697](#).

All groups listed in this Warning should be considered in order to perform a complete search.

15/6916 {with two cable connections to the window glass}

WARNING

Group [E05F 15/6916](#) is incomplete pending reclassification of documents from groups [E05F 11/38](#), [E05F 11/382](#), [E05F 11/48](#), [E05F 11/481](#), [E05F 11/483](#), [E05F 11/488](#), [E05F 11/52](#), [E05F 11/525](#), [E05F 15/689](#), [E05F 15/692](#), [E05F 15/695](#) and [E05F 15/697](#).

All groups listed in this Warning should be considered in order to perform a complete search.

15/6918 {Crank gear with clutches or retaining brakes, for operating window mechanisms}

WARNING

Group [E05F 15/6918](#) is incomplete pending reclassification of documents from groups [E05F 11/38](#), [E05F 11/382](#), [E05F 11/50](#), [E05F 11/505](#), [E05F 11/52](#), [E05F 11/525](#), [E05F 15/689](#), [E05F 15/692](#), [E05F 15/695](#) and [E05F 15/697](#).

All groups listed in this Warning should be considered in order to perform a complete search.

15/692 enabling manual drive, e.g. in case of power failure

WARNING

Group [E05F 15/692](#) is impacted by reclassification into groups [E05F 15/6892](#), [E05F 15/6894](#), [E05F 15/6896](#), [E05F 15/6899](#), [E05F 15/6901](#), [E05F 15/6903](#), [E05F 15/6905](#), [E05F 15/6907](#), [E05F 15/6909](#), [E05F 15/6911](#), [E05F 15/6914](#), [E05F 15/6916](#) and [E05F 15/6918](#).

All groups listed in this Warning should be considered in order to perform a complete search.

15/695 Control circuits therefor

WARNING

Group [E05F 15/695](#) is impacted by reclassification into groups [E05F 15/6892](#), [E05F 15/6894](#), [E05F 15/6896](#), [E05F 15/6899](#), [E05F 15/6901](#), [E05F 15/6903](#), [E05F 15/6905](#), [E05F 15/6907](#), [E05F 15/6909](#), [E05F 15/6911](#), [E05F 15/6914](#), [E05F 15/6916](#) and [E05F 15/6918](#).

All groups listed in this Warning should be considered in order to perform a complete search.

15/697 Motor units therefor, e.g. geared motors

WARNING

Group [E05F 15/697](#) is impacted by reclassification into groups [E05F 15/6892](#), [E05F 15/6894](#), [E05F 15/6896](#), [E05F 15/6899](#), [E05F 15/6901](#), [E05F 15/6903](#), [E05F 15/6905](#), [E05F 15/6907](#), [E05F 15/6909](#), [E05F 15/6911](#), [E05F 15/6914](#), [E05F 15/6916](#) and [E05F 15/6918](#).

All groups listed in this Warning should be considered in order to perform a complete search.

15/70 . . . with automatic actuation

- 15/71 . . responsive to temperature changes, rain, wind or noise
- 15/72 . . responsive to emergency conditions, e.g. fire
- 15/73 . . responsive to movement or presence of persons or objects
- 15/74 . . . using photoelectric cells
- 15/75 . . . responsive to the weight or other physical contact of a person or object
- 15/76 . . . responsive to devices carried by persons or objects, e.g. magnets or reflectors ([E05F 15/77](#) takes precedence)
- 2015/763 . . . {using acoustical sensors}
- 2015/765 . . . {using optical sensors}
- 2015/767 . . . {using cameras}
- 15/77 . . using wireless control
- 15/78 . . . using light beams
- 15/79 . . using time control
- 17/00** **Special devices for shifting a plurality of wings operated simultaneously** ([for simultaneously moving a plurality of interconnected ventilating lamellae E06B 7/086](#))
- 17/001 . {of prison cell doors}
- 17/002 . {for wings which lie one behind the other when closed}
- 17/004 . {for wings which abut when closed}
- 2017/005 . {for sliding wings}
- 2017/007 . . {with means for interlocking the wings}
- 2017/008 . {for swinging wings}