

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
- 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
- 3/102 . . . {with rack-and-pinion transmission between driving shaft and piston within the closer housing}
- 3/104 . . . {with cam-and-slide transmission between driving shaft and piston within the closer housing}
- 3/106 . . . {with crank-arm transmission between driving shaft and piston within the closer housing}
- 3/108 . . . {with piston rod protruding from the closer housing; Telescoping closers}
- 3/12 . . Special devices controlling the circulation of the liquid, e.g. valve arrangement ({E05F 3/223 takes precedence}; valves [per se F16K](#))
- 3/14 . with fluid brakes of the rotary type
- 3/16 . with friction brakes
- 3/18 . with counteracting springs ([double-acting springs E05F 1/14](#))
- 3/20 . in hinges
- 3/22 . Additional arrangements for closers, e.g. for holding the wing in opened or other position
- 3/221 . . {Mechanical power-locks, e.g. for holding the wing open or for free-moving zones}
- 3/222 . . . {electrically operated ([E05F 3/223 takes precedence](#))}
- 3/223 . . {Hydraulic power-locks, e.g. with electrically operated hydraulic valves}
- 3/224 . . {for assisting in opening the wing}
- 3/225 . . {mounted at the bottom of wings, e.g. details related to seals, covers, connections to the wings, embedding in the floor}
- 3/226 . . . {with means to adjust the closed position of the wing}
- 3/227 . . {mounted at the top of wings, e.g. details related to closer housings, covers, end caps or rails therefor}
- 2003/228 . . {Arrangements where the end of the closer arm is sliding in a track}
- 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](#))
- 5/003 . {for sliding wings ([Fasteners specially adapted for holding sliding wings open E05D 13/04](#))}
- 5/006 . {for hinges having a cup-shaped fixing part, e.g. for attachment to cabinets or furniture}
- 5/02 . specially for preventing the slamming of {swinging} wings {during final closing movement, e.g. jamb stops}
- 5/022 . . {specially adapted for vehicles, e.g. for hoods or trunks}
- 5/025 . . . {specially adapted for vehicle doors}
- 5/027 . . {with closing action}
- 5/04 . . hand-operated {, e.g. [removable](#)}; operated by centrifugal action {or by high closing speed}
- 2005/043 . . . {operated by centrifugal action at high closing speed}
- 2005/046 . . . {hand operated}
- 5/06 . Buffers {or stops limiting opening of swinging wings, e.g. floor or wall stops}([E05F 5/02 takes precedence](#))
- 5/08 . . with springs
- 5/10 . . with piston brakes
- 5/12 . specially for preventing the closing of a wing before another wing has been closed
- 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](#))**
- 7/005 . {Aligning devices for wings}
- 7/02 . for raising wings before being turned {(before sliding [E05D 15/565](#))}
- 7/04 . Arrangements affording protection against rattling ([with buffering action E05F 5/00](#))
- 7/06 . Devices for taking the weight of the wing, arranged away from the hinge axis
- 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](#)})
- Operating mechanisms for wings**
- 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](#))**
- 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](#))**
- 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](#))
- 11/04 . . with cords, chains or cables
- 11/06 . . . in guide-channels
- 11/08 . . with longitudinally-moving bars guided, e.g. by pivoted links, in or on the frame
- 11/10 . . . Mechanisms by which a handle moves the bar
- 11/12 . . . Mechanisms by which the bar shifts the wing
- 11/14 directly, i.e. without links, shifting the wing, e.g. by rack and gear or pin and slot
- 11/145 {by pin and slot}
- 11/16 shifting the wing by pivotally-connected members {(moving) in a plane perpendicular to the pivot axis of the wing}
- 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}