

# CPC COOPERATIVE PATENT CLASSIFICATION

**E05C BOLTS OR FASTENING DEVICES FOR WINGS, SPECIALLY FOR DOORS OR WINDOWS** (latching means for sideboard or tailgate structures for vehicles [B62D](#), [\[B62D 33/02\]](#); fastening devices for constructional or engineering elements [E04](#), [F16B](#); locks, fastening devices structurally or operatively combined or having significant cooperation with locks [E05B](#); means for operating or controlling wing fasteners in conjunction with mechanisms for moving the wing [E05F](#))

## NOTES

1. In this subclass only the movement essential for securing the wing is considered, e.g. a sliding bolt which is rotated on its axis to prevent its withdrawal is classified as having only a sliding movement
2. Attention is drawn to the definition following the title of class [E05](#)
3. {In this subclass, it is desirable to add the indexing code(s) of [E05Y](#).}

**Bolts, latches, or equivalent wing-fastening devices, characterised by special way of movement, e.g. moving rectilinearly, pivotally or rotatively** (devices released automatically by pull or pressure on the wing [E05C 19/02](#); hasps [E05C 19/08](#); hook fastenings [E05C 19/10](#))

<b>1/00</b>	<b>Fastening devices with bolts moving rectilinearly</b>	3/02	. without latching action
1/002	. {perpendicular to the surface on which the fastener is mounted}	3/04	. . with operating handle or equivalent member rigid with the bolt
1/004	. {parallel to the surface on which the fastener is mounted}	3/041	. . . {rotating about an axis perpendicular to the surface on which the fastener is mounted}
1/006	. . {parallel to the wing edge}	3/042	. . . . {the handle being at one side, the bolt at the other side or inside the wing}
2001/008	. {the axis of the bolt movement forming an oblique angle with the surface from which the bolt protrudes, e.g. the wing edge}	3/043	. . . . {the pivot being between bolt and handle ( <a href="#">E05C 3/042</a> takes precedence)}
1/02	. without latching action	3/044	. . . . {the bolt and handle being at the same side of the pivot ( <a href="#">E05C 3/045</a> , <a href="#">E05C 3/046</a> take precedence)}
1/04	. . with operating handle or equivalent member rigid with the bolt	3/045	. . . . {in the form of a hook (hook-like fastenings <a href="#">E05C 19/10</a> )}
1/06	. . with operating handle or equivalent member moving otherwise than rigidly with the bolt	3/046	. . . . {in the form of a crescent-shaped cam (hooks <a href="#">E05C 3/045</a> )}
1/065	. . . {flush}	3/047	. . . {rotating about an axis parallel to the surface on which the fastener is mounted}
1/08	. with latching action	3/048	. . . . {parallel to the wing edge}
1/085	. . {With means for assisting depression of the latch bolt during latching}	3/06	. . with operating handle or equivalent member moving otherwise than rigidly with the bolt
1/10	. . with operating handle or equivalent member rigid with the latch	3/08	. . . the handle or member moving essentially towards or away from the plane of the wing or frame
1/12	. . with operating handle or equivalent member moving otherwise than rigidly with the latch	3/10	. . . the handle or member moving essentially in a plane substantially parallel to the wing {or frame}
1/14	. . . the handle or member moving essentially towards or away from the plane of the wing or frame	3/12	. with latching action (devices in which the securing part is formed or merely carried by a spring and moves only by distortion of the spring, e.g. snaps, <a href="#">E05C 19/06</a> ; tilt-plate latches <a href="#">E05C 19/007</a> )
1/145	. . . . {flush}	3/122	. . {flush}
1/16	. . . the handle or member moving essentially in a plane substantially parallel to the wing or frame	3/124	. . {with latch under compression force between its pivot and the striker ( <a href="#">E05C 3/122</a> , <a href="#">E05C 3/14</a> , <a href="#">E05C 3/16</a> and <a href="#">E05B 65/0852</a> take precedence)}
1/163	. . . . {Cylindrical or tubular latches}	2003/126	. . {Only part of the latch movable for latching}
1/166	. . . . {with sliding handle}	2003/128	. . {Pendulum-type bolt}
<b>3/00</b>	<b>Fastening devices with bolts moving pivotally or rotatively</b>	3/14	. . with operating handle or equivalent member rigid with the latch {( <a href="#">E05C 3/122</a> takes precedence)}
3/002	. {sliding in an arcuate guide or the like (locks with circular bolts <a href="#">E05B 63/123</a> )}	3/145	. . . {pivoting about an axis perpendicular to the wing}
3/004	. {about an axis perpendicular to the surface on which the fastener is mounted}	3/16	. . with operating handle or equivalent member moving otherwise than rigidly with the latch {( <a href="#">E05C 3/122</a> takes precedence)}
3/006	. {about an axis parallel to the surface on which the fastener is mounted}		
3/008	. . {parallel to the wing edge}		

3/162	. . . {the handle or member moving essentially towards or away of the plane of the wing or frame ( <a href="#">E05C 3/167</a> takes precedence)}	2007/007	. {for a double-wing sliding door or window, i.e. where both wings are slidable}
3/165	. . . {the handle or member moving substantially parallel to the wing or frame ( <a href="#">E05C 3/167</a> takes precedence)}	7/02	. for wings which lie one behind the other when closed {( <a href="#">E05C 7/002</a> takes precedence)}
3/167	. . . {the latch pivoting about an axis perpendicular to the wing}	7/04	. for wings which abut when closed {(pillarless vehicle doors <a href="#">E05B 83/38</a> )}
3/22	. . . the bolt being spring controlled	7/045	. . {Sliding bolts mounted on or in the edge of a normally closed wing of a double-door or -window}
3/24	. . . . in the form of a bifurcated member {( <a href="#">automatic catches with a bifurcated latch E05C 19/024</a> ; <a href="#">locks with a bifurcated bolt E05B 65/0046</a> , <a href="#">E05B 85/243</a> )}	7/06	. . a fastening device for one wing being actuated or controlled by closing another wing {(locking one vehicle door by shutting another <a href="#">E05B 77/52</a> )}
3/26	. . . . . engaging a stud-like keeper ( <a href="#">stud-like keepers per se E05B 2015/0235</a> )	9/00	<b>Arrangements of simultaneously actuated bolts or other securing devices at well-separated positions on the same wing</b> {(Locking, cross or security bars <a href="#">E05C 19/003</a> ; <a href="#">locks for safes or the like E05B 65/0075</a> ; of the vertical-rod type for panic or emergency doors <a href="#">E05B 65/1006</a> ); similar constructions for engineering closures <a href="#">F16J 13/08</a> )}
3/28	. . . . . with simultaneously operating double bolts {(vehicle locks with a pair of bifurcated bolts <a href="#">E05B 85/245</a> )}	9/002	. {with arrangements allowing the wing to be slam-shut, e.g. by securing elements with latching action ( <a href="#">E05B 63/20</a> , <a href="#">E05B 63/24</a> take precedence)}
3/30	. . . . . in the form of a hook {(hook-like fastenings <a href="#">E05C 19/10</a> ; <a href="#">locks for sliding wings with pivoting bolts E05B 65/0811</a> , <a href="#">E05B 65/0835</a> )}	9/004	. {Faceplates (for other locks or fasteners <a href="#">E05B 9/002</a> ); Fixing the faceplates to the wing}
3/34	. . . . . with simultaneously operating double bolts {(locks for sliding wings with bolts pivoting about an axis parallel to the wings <a href="#">E05B 65/0835</a> , comprising simultaneously pivoting double hook-like locking members <a href="#">E05B 65/0858</a> )}	9/006	. {Details of bars}
3/36	. . . . . in the form of a rotary gear {(vehicle door locks <a href="#">E05B 85/28</a> )}	9/008	. {mounted in an elongate casing on the surface of the wing}
3/38	. . . . . with bolts engaging a hooked keeper ( <a href="#">E05C 3/24</a> , <a href="#">E05C 3/30</a> , <a href="#">E05C 3/36</a> take precedence)	9/02	. with one sliding bar for fastening when moved in one direction and unfastening when moved in opposite direction; with two sliding bars moved in the same direction when fastening or unfastening
3/40	. . . . . with bolt engaging a stud-like keeper ( <a href="#">E05C 3/24</a> , <a href="#">E05C 3/30</a> , <a href="#">E05C 3/36</a> take precedence)	9/021	. . {with rack and pinion mechanism}
5/00	<b>Fastening devices with bolts moving otherwise than only rectilinearly and only pivotally or rotatively</b> {( <a href="#">E05C 9/1883</a> , <a href="#">E05C 19/009</a> , <a href="#">E05B 63/125</a> , <a href="#">E05B 63/126</a> , <a href="#">E05B 63/127</a> take precedence; pivotally-mounted hooks-like fastenings with toggle action <a href="#">E05C 19/14</a> ; bayonet-type locks <a href="#">E05B 63/125</a> ; <a href="#">locks for sliding wings, with additional movement E05B 65/0817</a> )}	9/023	. . . {between a lock cylinder and the bar}
2005/005	. {Pivoting bolts or catches being able to move in an additional direction, e.g. by sliding or by pivoting about an additional axis, in order to allow closing of the wing even if the bolt or catch is in its locked position}	9/025	. . {with pins engaging slots}
5/02	. both moving axially and turning about their axis to secure the wing	9/026	. . {comprising key-operated locks, e.g. a lock cylinder to drive auxiliary deadbolts or latch bolts ( <a href="#">E05C 9/023</a> takes precedence)}
5/04	. . performing both movements simultaneously, e.g. screwing into a keeper	9/028	. . {externally mounted on the wing, i.e. surface mounted ( <a href="#">E05C 9/008</a> takes precedence)}
7/00	<b>Fastening devices specially adapted for two wings</b> <b>NOTE</b> If a fastening device merely secures one wing to another wing which is already closed it is not regarded as specially adapted for two wings	9/04	. with two sliding bars moved in opposite directions when fastening or unfastening
7/002	. {for sluice doors (for nuclear reactors <a href="#">G21C 13/0285</a> )}	9/041	. . {with rack and pinion mechanism}
7/005	. {for "Dutch doors", i.e. upper and lower wings}	9/042	. . {with pins engaging slots}
		9/043	. . {with crank pins and connecting rods}
		9/045	. . {with inclined surfaces, e.g. spiral or helicoidal}
		9/046	. . {with two interconnected mechanisms each driving one rod}
		9/047	. . {comprising key-operated locks, e.g. a lock cylinder to drive auxiliary deadbolts or latch bolts ( <a href="#">E05C 9/041</a> takes precedence)}
		9/048	. . {externally mounted on the wing, i.e. surface mounted ( <a href="#">E05C 9/008</a> takes precedence)}
		9/06	. with three or more sliding bars {(for watertight doors in bulkheads of vessels <a href="#">B63B 43/24</a> , <a href="#">B63B 43/32</a> ; for safe doors <a href="#">E05B 65/0075</a> ; covers or similar closures for pressure vessels <a href="#">F16J 13/00</a> )}
		9/063	. . {extending along three or more sides of the wing or frame (means for transmitting movements between vertical and horizontal bars <a href="#">E05F 7/08</a> )}
		9/066	. . . {Locks for windows or doors specially adapted for tilt and turn}
		9/08	. with a rotary bar for actuating the fastening means {( <a href="#">E05B 83/10</a> and <a href="#">E05B 65/468</a> take precedence; for a plurality of drawers <a href="#">E05B 65/465</a> )}

9/085	. . {pivoting about an axis perpendicular to the door (locking bars or the like pivoted about an axis perpendicular to the plane of the wing <a href="#">E05C 19/005</a> )}	17/085	. . . . {automatic release by further opening}
9/10	. Actuating mechanisms for bars { <a href="#">E05C 9/02</a> - <a href="#">E05C 9/06</a> take precedence}	17/12	. . . consisting of a single rod
9/12	. . with rack and pinion mechanism { <a href="#">E05C 9/021</a> , <a href="#">E05C 9/041</a> take precedence}	17/14	. . . . Hook and eye, or equivalent
9/14	. . with pin engaging slots { <a href="#">E05C 9/025</a> , <a href="#">E05C 9/042</a> take precedence}	17/16	. . . . pivoted only at one end and having an elongated slot
9/16	. . with crank pins and connecting rods { <a href="#">E05C 9/043</a> takes precedence}	17/163	. . . . . {with clamping or securing means at the pivot, e.g. friction hinge}
9/18	. Details of fastening means or of fixed retaining means for the ends of bars	17/166	. . . . . {Security devices}
9/1808	. . {Keepers}	17/18	. . . . . pivoted only at one end having a row of holes, notches, or pins
2009/1816	. . . {snap-mounted without screw fasteners}	17/20	. . . . . sliding through a guide ( <a href="#">E05C 17/18</a> takes precedence)
9/1825	. . {Fastening means}	17/203	. . . . . {concealed, e.g. for vehicles}
9/1833	. . . {performing sliding movements}	17/206	. . . . . {with elastomeric springs to hold wing open}
9/1841	. . . . {perpendicular to actuating bar}	17/22	. . . . . with braking, clamping or securing means in the guide { <a href="#">E05C 17/203</a> takes precedence}
9/185	. . . . {parallel with actuating bar}	17/24	. . . . . pivoted at one end, and with the other end running along a guide member
9/1858	. . . . . {of the roller bolt type}	17/26	. . . . . with braking, clamping or securing means at the pivot of the rod
2009/1866	. . . . . {of the keyhole slot type}	17/28	. . . . . with braking, clamping or securing means at the connection to the guide member
9/1875	. . . {performing pivoting movements ( <a href="#">E05C 9/08</a> takes precedence)}	17/30	. . . of extensible, e.g. telescopic, construction ( <a href="#">flexible members E05C 17/36</a> ; <a href="#">locking of telescopic systems in general F16B 7/10</a> ; <a href="#">lockable telescopic gas springs F16F 9/0254</a> )
9/1883	. . . . {pivotally mounted on the actuation bar}	17/305	. . . . . {with hydraulic locks}
9/1891	. . . . {pivoting around an axis parallel to the bar}	17/32	. . . consisting of two or more pivoted rods
9/20	. Coupling means for sliding bars, rods, or cables { <a href="#">connecting means between actuating rods for vehicle door locks E05B 79/14</a> }	17/34	. . . . with means for holding in more than one position
9/22	. Guides for sliding bars, rods or cables	17/345	. . . . . {using friction, e.g. friction hinge}
9/24	. Means for transmitting movements between vertical and horizontal sliding bars, rods or cables {for the fastening of wings}, e.g. corner guides ( <a href="#">means for transmitting movements between vertical and horizontal sliding bars, rods or cables, for moving wings into open or closed position E05F 7/08</a> )	17/36	. . . comprising a flexible member, e.g. chains
		17/365	. . . . {Security chains}
		17/38	. . with a curved rail rigid with the frame for engagement with means on the wing, or <i>vice versa</i>
<b>17/00</b>	<b>Devices for holding wings open; Devices for limiting opening of wings or for holding wings open by a movable member extending between frame and wing; Braking devices, stops or buffers, combined therewith (<a href="#">combined with hinges E05D 11/00</a>; <a href="#">combined with operating apparatus for wings E05E</a>; other braking devices, stops, buffers <a href="#">E05F 5/00</a>)</b>	17/40	. . Bars or like parts connecting a right wing with a left wing which move against each other when being closed
17/003	. {Power-actuated devices for limiting the opening of vehicle doors}	17/42	. . connecting exterior and interior wings
17/006	. . {with means for detecting obstacles outside the doors}	17/44	. . with a device carried on the wing for frictional or like engagement with a fixed flat surface, e.g. {for holding wings open or closed by} retractable feet { <a href="#">(with wedging action between the wing and a flat surface E05C 17/54)</a> }
17/02	. by mechanical means ( <a href="#">E05C 17/60</a> takes precedence)	17/443	. . . {of the pivoted lever or eccentric type, e.g. for sliding windows}
17/025	. . {Means acting between hinged edge and frame ( <a href="#">E05C 17/203</a> takes precedence)}	17/446	. . . {of the retractable sliding feet type ( <a href="#">similar devices for sliding wings E05C 17/64</a> )}
17/04	. . with a movable bar or equivalent member extending between frame and wing	17/46	. . in which the wing or a member fixed thereon is engaged by a movable fastening member in a fixed position; in which a movable fastening member mounted on the wing engages a stationary member
17/042	. . . {for anchoring the trunk lid of a car while carrying oversize objects ( <a href="#">E05C 17/36</a> takes precedence)}	17/48	. . . comprising a sliding securing member
17/045	. . . {Hinges for the movable bar ( <a href="#">E05C 17/163</a> , <a href="#">E05C 17/26</a> , <a href="#">E05C 17/345</a> take precedence; <a href="#">hinges in general F16C 11/04</a> , <a href="#">E05D</a> )}	17/50	. . . comprising a single pivoted securing member
17/047	. . . {Portable bars or the like, i.e. completely removable ( <a href="#">E05C 17/042</a> takes precedence)}	17/505	. . . . {acting directly on the knob or handle}
17/08	. . . with special means for release, e.g. automatic release by further opening	17/52	. . . comprising a snap, catch, or the like
		17/525	. . . . {comprising a suction cup}
		17/54	. . Portable devices, e.g. wedges; wedges for holding wings open or closed ( <a href="#">E05C 17/047</a> takes precedence)

- 17/56 . . by magnetic or electromagnetic attraction {or operated by electric or electromagnetic means (for closed wings [E05C 19/16](#))}; (operation of locks or fasteners by electric or magnetic means [E05B 47/00](#))
- 17/58 . . operated or controlled from a distance, {e.g. pneumatically ([E05C 17/56](#) takes precedence)}
- 17/60 . . holding sliding wings open {([E05C 17/443](#), [E05C 17/54](#) take precedence)}
- 17/62 . . using notches
- 17/64 . . by friction
- 19/00 Other devices specially designed for securing wings, {e.g. with suction cups} (movable draft sealings additionally used for bolting [E06B 7/18](#))**
- 19/001 . . {with bolts extending over a considerable extent, e.g. nearly along the whole length of at least one side of the wing (movable sealing strips [E06B 7/18](#))}
- 19/002 . . {Rotating about a longitudinal axis}
- 19/003 . . {Locking bars, cross bars, security bars (for sliding wings [E05B 65/0888](#); for a plurality of drawers [E05B 65/467](#))}
- 19/004 . . {at an angle between door and floor or wall}
- 19/005 . . {pivoted about an axis on the wing, perpendicular to the plane of the wing}
- 19/006 . . {by displacement of the wing substantially in its own plane ([E05F 7/02](#) takes precedence)}
- 19/007 . . {Latches with wedging action (wedges between wing itself and fixed surface [E05C 17/54](#))}
- 19/008 . . {Tilt-plate latches}
- 19/009 . . {Latches with floating bolts, e.g. rings, balls}
- 19/02 . . Automatic catches, i.e. released by pull or pressure on the wing ([E05C 19/06](#) takes precedence; {with locking means [E05B 63/22](#)})
- 19/022 . . {Released by pushing in the closing direction}
- 19/024 . . {with a bifurcated latch}
- 19/026 . . {with a keeper caught between two pivoting bolts}
- 19/028 . . {with sliding bolt(s)}
- 19/04 . . Ball or roller catches
- 19/06 . . in which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps
- 19/063 . . {Released by pull or pressure on the wing ([E05C 19/022](#) takes precedence)}
- 19/066 . . {made of plastics, e.g. hook-and-loop type fastener}
- 19/08 . . Hasps; Hasp fastenings; Spring catches therefor
- 19/10 . . Hook fastenings; Fastenings in which a link engages a fixed hook-like member
- 19/105 . . {Butterfly latches}
- 19/12 . . pivotally mounted {around an axis ([E05C 3/045](#), [E05C 3/40](#) take precedence)}
- 19/14 . . . with toggle action
- 19/145 . . . {flush}
- 19/16 . . Device holding the wing by magnetic or electromagnetic attraction {([E05C 17/56](#) takes precedence)}
- 19/161 . . {magnetic gaskets}
- 19/163 . . {a movable bolt being held in the striker by a permanent magnet}
- 19/165 . . {released by pushing in the closing direction}
- 19/166 . . {electromagnetic}
- 19/168 . . . {a movable bolt being electromagnetically held in the striker by electromagnetic attraction}
- 19/18 . . Portable devices specially adapted for securing wings ({[E05C 17/54](#), [E05C 19/003](#), [E05B 65/0894](#), [E05B 67/00](#) take precedence}); preventing operation of handles [E05B 13/00](#))
- 19/182 . . {insertable in the gap between the wing and the frame or in the gap between a lock and its striker, e.g. for cooperation with the striker}
- 19/184 . . {a portable member cooperating with a fixed member or an opening on the wing or the frame, for locking the wing}
- 19/186 . . {with a pair of hooks, which are movable towards each other for grasping of an element on the wing, respectively on the frame, or for grasping of an element on each of the wings forming a double door}
- 19/188 . . {Removably mounted securing devices, e.g. devices clamped to the wing or the frame ([E05C 19/182](#) - [E05C 19/186](#) take precedence)}
- 21/00 Arrangements or combinations of wing fastening, securing, or holding devices, not covered by a single preceding main group; {Locking kits}**
- 21/005 . . {Provisional arrangements between door and frame for holding vehicle doors closed or partially open during manufacturing or maintenance}