E05C  COOPERATIVE PATENT CLASSIFICATION

E  FIXED CONSTRUCTIONS

BUILDING

E05  LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES

(NOTE omitted)

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.]

WARNINGS
1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   - E05C 3/32 covered by E05C 3/30
   - E05C 17/06 covered by E05C 17/04
   - E05C 17/10 covered by E05C 17/04
   - E05C 21/02 covered by E05C 21/00
2. 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.

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

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<td>Fastening devices with bolts moving rectilinearly</td>
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<td>with operating handle or equivalent member rigid with the bolt</td>
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<td>the handle or member moving essentially towards or away from the plane of the wing or frame</td>
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<td>with operating handle or equivalent member rigid with the latch</td>
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<td>the handle being at one side, the bolt at the other side or inside the wing</td>
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<td>with operating handle or equivalent member moving otherwise than rigidly with the bolt</td>
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<td>the handle or member moving essentially in a plane substantially parallel to the wing or frame</td>
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<td>Fastening devices with bolts moving pivotally or rotratively</td>
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<td>sliding in an arcuate guide or the like (locks with circular bolts E05B 63/123)</td>
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<td>about an axis perpendicular to the surface on which the fastener is mounted</td>
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<td>about an axis parallel to the surface on which the fastener is mounted</td>
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<td>with operating handle or equivalent member rigid with the bolt</td>
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<td>moving otherwise than rigidly with the bolt</td>
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<td>(rotating about an axis perpendicular to the surface on which the fastener is mounted)</td>
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Bolts, latches, or equivalent wing-fastening devices, characterised by special way of movement, e.g.

3/043 . . . . [the pivot being between bolt and handle (E05C 3/042 takes precedence)]
3/044 . . . . [the bolt and handle being at the same side of the pivot (E05C 3/045, E05C 3/046 take precedence)]
3/045 . . . . [in the form of a hook (hook-like fastenings E05C 19/10)]
3/046 . . . . [in the form of a crescent-shaped cam (hooks E05C 3/045)]
3/047 . . . . [rotating about an axis parallel to the surface on which the fastener is mounted]
3/048 . . . . [parallel to the wing edge]
3/06 . . . . with operating handle or equivalent member moving otherwise than rigidly with the bolt
3/08 . . . . the handle or member moving essentially towards or away from the plane of the wing or frame
3/10 . . . . the handle or member moving essentially in a plane substantially parallel to 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, E05C 19/006; tilt-plate latches E05C 19/007)
3/122 . . . [flush]
3/124 . . . . with latch under compression force between its pivot and the striker (E05C 3/122, E05C 3/14, E05C 3/16 and E05B 65/0852 take precedence)

2003/126 . . . . [Only part of the latch movable for latching]
2003/128 . . . . [Pendulum-type bolt]
3/14 . . . . with operating handle or equivalent member rigid with the latch (E05C 3/122 takes precedence)
3/145 . . . . [pivoting about an axis perpendicular to the wing]
3/16 . . . . with operating handle or equivalent member moving otherwise than rigidly with the latch (E05C 3/122 takes precedence)
3/162 . . . . [the handle or member moving essentially towards or away of the plane of the wing or frame (E05C 3/167 takes precedence)]
3/165 . . . . [the handle or member moving substantially parallel to the wing or frame (E05C 3/167 takes precedence)]
3/167 . . . . [the latch pivoting about an axis perpendicular to the wing]
3/22 . . . . the bolt being spring controlled
3/24 . . . . in the form of a bifurcated member (automatic catches with a bifurcated latch E05C 19/024; locks with a bifurcated bolt E05B 65/0046, E05B 85/243)]
3/26 . . . . . [engaging a stud-like keeper (stud-like keepers per se E05B 2015/0235)]
3/28 . . . . . with simultaneously operating double bolts [(vehicle locks with a pair of bifurcated bolts E05B 85/245)]
3/30 . . . . in the form of a hook ([hook-like fastenings E05C 19/10; locks for sliding wings with pivoting bolts E05B 65/0811, E05B 65/0835])
3/34 . . . . with simultaneously operating double bolts ([locks for sliding wings with bolts pivoting about an axis parallel to the wings E05B 65/0835, comprising simultaneously pivoting double hook-like locking members E05B 65/0858)]

3/36 . . . . in the form of a rotary gear [(vehicle door locks E05B 85/28)]
3/38 . . . . with bolts engaging a hooked keeper (E05C 3/24, E05C 3/30, E05C 3/36 take precedence)
3/40 . . . . with bolts engaging a stud-like keeper (E05C 3/24, E05C 3/30, E05C 3/36 take precedence)

5/00 Fastening devices with bolts moving otherwise than only rectilinearly and only pivotally or rotatively (E05C 9/1883, E05C 19/009, E05B 63/125, E05B 63/126, E05B 63/127 take precedence; pivotally-mounted hooks-like fastenings with toggle action E05C 19/14; bayonet-type locks E05B 63/125; locks for sliding wings, with additional movement E05B 65/0817)]

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]
5/02 . . . . both moving axially and turning about their axis to secure the wing
5/04 . . . . performing both movements simultaneously, e.g. screwing into a keeper

7/00 Fastening devices specially adapted for two wings

NOTE

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

7/002 . . . [for sluice doors (for nuclear reactors G21C 13/0285)]
7/005 . . . [for "Dutch doors", i.e. upper and lower wings)
2007/007 . . . [for a double-wing sliding door or window, i.e. where both wings are slidable]
7/02 . . . . for wings which lie one behind the other when closed ([E05C 7/002 takes precedence)]
7/04 . . . . for wings which shut when closed (pilbarless vehicle doors E05B 83/38)
7/045 . . . . [Sliding bolts mounted on or in the edge of a normally closed wing of a double-door or -window]
7/06 . . . . a fastening device for one wing being actuated or controlled by closing another wing (locking one vehicle door by shutting another E05B 77/52)]

9/00 Arrangements of simultaneously actuated bolts or other securing devices at well-separated positions on the same wing ([Locking, cross or security bars E05C 19/003; locks for safes or the like E05B 65/0075; of the vertical-rod type for panic or emergency doors E05B 65/1006]; similar constructions for engineering closures F16J 13/08)
9/002 . . . [with arrangements allowing the wing to be slam-shut, e.g. by securing elements with latching action (E05B 63/20, E05B 63/24 take precedence)]
9/004 . . . [Faceplates (for other locks or fasteners E05B 9/002); Fixing the faceplates to the wing]
9/006 . . . [Details of bars]
9/008 . . . [mounted in an elongate casing on the surface of the wing]
Bolts, latches, or equivalent wing-fastening devices, characterised by special way of movement, e.g.

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

9/021 . [with rack and pinion mechanism]

9/023 . [between a lock cylinder and the bar]

9/025 . [with pins engaging slots]

9/026 . [comprising key-operated locks, e.g. a lock cylinder to drive auxiliary deadbolts or latch bolts (E05C 9/023 takes precedence)]

9/028 . [externally mounted on the wing, i.e. surface mounted (E05C 9/008 takes precedence)]

9/04 . with two sliding bars moved in opposite directions when fastening or unfastening

9/041 . [with rack and pinion mechanism]

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 (E05C 9/041 takes precedence)]

9/048 . [externally mounted on the wing, i.e. surface mounted (E05C 9/008 takes precedence)]

9/06 . with three or more sliding bars {for watertight doors in bulkheads of vessels B63B 43/24, B63B 43/32; for safe doors E05B 65/0075; covers or similar closures for pressure vessels F16J 13/00}

9/063 . [extending along three or more sides of the wing or frame (means for transmitting movements between vertical and horizontal bars E05F 7/08)]

9/066 . . . . [Locks for windows or doors specially adapted for tilt and turn]

9/08 . with a rotary bar for actuating the fastening means {E05B 83/10 and E05B 65/468 take precedence; for a plurality of drawers E05B 65/465)}

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 E05C 19/005)]

9/10 . Actuating mechanisms for bars {E05C 9/024 - E05C 9/067 take precedence)

9/12 . [with rack and pinion mechanism (E05C 9/021, E05C 9/041 take precedence)]

9/14 . [with pins engaging slots (E05C 9/025, E05C 9/042 take precedence)]

9/16 . [with crank pins and connecting rods (E05C 9/043 takes precedence)]

9/18 . Details of fastening means or of fixed retaining means for the ends of bars

9/1808 . . . [Keepers]

2009/1825 . . . [Fastening means]

9/1833 . . . [performing sliding movements]

9/1841 . . . [perpendicular to actuating bar]

9/185 . . . [parallel with actuating bar]

9/1858 . . . . . . . . . . . . . . . . . . . .constituting a single rod

17/14 . . . . Hook and eye, or equivalent

17/16 . . . . pivoted only at one end and having an elongated slot

17/163 . . . . [with clamping or securing means at the pivot, e.g. friction hinge]

17/166 . . . . [Security devices]

17/178 . . . . pivoted only at one end having a row of holes, notches, or pins

17/20 . . . . sliding through a guide (E05C 17/18 takes precedence)

17/203 . . . . . . . [concealed, e.g. for vehicles]

17/206 . . . . . . . [with elastomeric springs to hold wing open]

17/22 . . . . . with braking, clamping or securing means in the guide {E05C 17/203 takes precedence)

17/24 . . . . . pivoted at one end, and with the other end running along a guide member

17/26 . . . . with braking, clamping or securing means at the pivot of the rod

17/28 . . . . with braking, clamping or securing means at the connection to the guide member

9/20 . . . . Coupling means for sliding bars, rods, or cables {connecting means between actuating rods for vehicle door locks E05B 79/14)

9/22 . . . . Guides for sliding bars, rods or cables

9/24 . . . . Means for transmitting movements between vertical and horizontal sliding bars, rods or cables [for the fastening of wings], e.g. corner guides (means for transmitting movements between vertical and horizontal sliding bars, rods or cables, for moving wings into open or closed position E05F 7/08)
Bolts, latches, or equivalent wing-fastening devices, characterised by special way of movement, e.g.

17/30 . . . of extensible, e.g. telescopic, construction (flexible members E05C 17/36; locking of telescopic systems in general E16B 7/10; lockable telescopic gas springs F16F 9/0254)
17/305 . . . [with hydraulic locks]
17/32 . . . consisting of two or more pivoted rods
17/34 . . . with means for holding in more than one position
17/345 . . . [using friction, e.g. friction hinge]
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 vice versa
17/40 . . . Bars or like parts connecting a right wing with a left wing which move against each other when being closed
17/42 . . . connecting exterior and interior wings
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 one retractable feet [with wedging action between the wing and a flat surface E05C 17/54]
17/443 . . . [of the pivoted lever or eccentric type, e.g. for sliding windows]
17/446 . . . [of the retractable sliding feet type (similar devices for sliding wings E05C 17/64)]
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
17/48 . . . comprising a sliding securing member
17/50 . . . comprising a single pivoted securing member
17/505 . . . [acting directly on the knob or handle]
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 [E05C 17/047 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 7/118)
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 7/118)]
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 if 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 . . . Devices 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]
Bolts, latches, or equivalent wing-fastening devices, characterised by special way of movement, e.g., moving...

21/005  [Provisional arrangements between door and frame for holding vehicle doors closed or partially open during manufacturing or maintenance]