SECTION E — FIXED CONSTRUCTIONS

E05 LOCKS; KEYS; WINDOW OR DOOR FITTINGS; SAFES

Note(s)

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

- "wing" is a general term for swingable, slidable, or otherwise movable doors or windows. This term also includes other movable structures such as drawers, lids of chests, car boots, or car bonnets, to which the operating, mounting, latching, or locking means covered by this class may be applied;
- "frame" means any member to which a wing may be held by a fastening device. It does not include a framework forming part of the wing, but it may be another wing;
- "lock" means primarily a device for releasing or securing any member, which requires a key or a permutation mechanism for release. In groups E05B 1/00-E05B 9/00, E05B 13/00-E05B 17/00, E05B 39/00-E05B 47/00, E05B 51/00, E05B 53/00, E05B 63/00 and E05B 65/00 however, the term "lock" may include other fastening devices;
- "bolt" means a sliding, pivoted, or otherwise movable member such as is normally carried by a door to hold it shut by engagement with a keeper on the frame. It may be operated by hand directly or through mechanism or by a key; it may be a latch (see below);
- "latch" means a bolt arranged to be moved to the releasing position against the force of a spring, or some other returning force, when a wing meets the frame on closing, so that it does not have to be operated by hand to secure the wing, but only to open it;
- "hasp" means a member hinged to the frame or wing so that it can be moved towards the face of the wing or frame and secured thereto, e.g. by a turn-button, by a padlock and staple.

E05B LOCKS; ACCESSORIES THEREFOR; HANDCUFFS

Note(s) [2014.01]

- 1. Operating or controlling of locks for vehicle wings are classified in groups E05B 77/00-E05B 81/00.
- 2. Knobs, handles or press buttons for locks of vehicle wings are classified in groups E05B 79/00-E05B 85/00.

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LOCKS WITH TUMBLERS	
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Moved by rotation of the key	27/00-33/00
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Knobs or handles for vehicles	
Other details or accessories of locks or latches	9/00-17/00
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HANDCUFFS	75/00

Details or accessories of locks or the like; Keys

1/00 Knobs or handles for wings (for furniture A47B 95/02); Knobs, handles, or press buttons for locks or latches on wings (E05B 5/00, E05B 7/00 take precedence) [1, 2006.01]

1/02 • of solid material **[1, 2006.01]**

with inner rigid member and outer cover or covers [1, 2006.01]

1/06 • of sheet material **[1, 2006.01]**

3/00 Fastening handles to lock or latch parts [1, 2006.01]

Fastening handles to the spindle by pinning or riveting [1, 2006.01]

3/04	• Fastening the handle shank to the spindle by screws, springs, or snap bolts [1, 2006.01]	17/02	Coupling devices for double doors, i.e. two doors one behind the other and hinged on the same
3/06	• by means arranged in or on the rose [1, 2006.01]	17/04	side [1, 2006.01]
3/08	• Fastening the spindle to the follower [1, 2006.01]	17/04	 Devices for coupling the turning cylinder of a single or double cylinder lock with the bolt-operating
3/10	 by a bipartite or cleft spindle in the follower or in the handle shank [1, 2006.01] 	45.00	member [1, 2006.01]
5/00	Handles completely let into the surface of the	17/06	 Templates for marking the position of apertures in fittings of wings [1, 2006.01]
	wing [1, 2006.01]	17/08	 Lubricating devices [1, 2006.01]
5/02	 able to be turned outwards before operation [1, 2006.01] 	17/10	 Illuminating devices on, or for, locks or keys [1, 2006.01]
5/04	 able to be shifted parallel to the wing after being pulled out [1, 2006.01] 	17/12	 Devices for removing keys stuck in the lock [1, 2006.01]
7/00	TT - II	17/14	 Closures or guards for keyholes [1, 2006.01]
7/00	Handles pivoted about an axis parallel to the wing (E05B 5/00 takes precedence) [1, 2006.01]	17/16	 shaped as pins or key bits [1, 2006.01]
	(E03D 3/00 takes precedence) [1, 2000.01]	17/18	 shaped as lids or slides [1, 2006.01]
9/00	Lock casings or latch-mechanism casings (padlock casings E05B 67/02; for vehicles E05B 79/04, E05B 85/02) [1, 2006.01]	17/20	 Means independent of the locking mechanism for preventing unauthorised opening, e.g. for securing the bolt in the fastening position (pins or detents
9/02	• of latch-bolt locks [1, 2006.01]	45/00	E05B 15/12) [4, 2006.01]
9/04	 of cylinder locks [1, 2006.01] 	17/22	Means for operating or controlling lock or fastening
9/06	• Fastening together the parts of casings [1, 2006.01]		device accessories, i.e. other than the fastening members, e.g. switches, indicators [4, 2006.01]
9/08	 Fastening the casings of latch-bolt locks or cylinder 		members, e.g. switches, indicators [4, 2000.01]
	locks to the wing [1, 2006.01]	19/00	Keys; Accessories therefor (making keys, see the
9/10	 Coupling devices for the two halves of double cylinder locks [1, 2006.01] 		relevant places, e.g. B21D 53/42; milling grooves in keys B23C 3/35) [1, 2006.01]
11/00	Devices preventing keys from being removed from	19/02	• Construction of the shank of the key [1, 2006.01]
	the lock [1, 2006.01]	19/04	• Construction of the bow of the key; Construction of flat keys [1, 2006.01]
11/02	• before the wing is locked [1, 2006.01]	19/06	 Key bits; Flat key bits [1, 2006.01]
11/04 11/06	before the wing is closed [1, 2006.01]for catching skeleton or incorrect keys [1, 2006.01]	19/08	• • Special forms of key bits, e.g. double key bits, folding key bits [1, 2006.01]
13/00	Devices preventing the key or the handle or both from being used [1, 2006.01]	19/10	• Fastening the key bit and bow on the shank of the key [1, 2006.01]
13/02	 shaped as sectors of escutcheons, arranged in the keyhole [1, 2006.01] 	19/12	 Keys with several bits moving relatively to each other when in use [1, 2006.01]
13/04	 shaped as fork-like implements grasping and fixing 	19/14	• Double keys [1, 2006.01]
13/06	the key [1, 2006.01] • shaped as bolt detents arranged in the path of motion	19/16	 Extremely thin keys acting without rotation [1, 2006.01]
15/00	of the key bit [1, 2006.01]	19/18	 Keys adjustable before use [1, 2006.01]
13/08	formed by longitudinal bolt or cross-bar connecting the handle with a stationary lock part or	19/20	 Skeleton keys; Devices for picking locks; Other devices for similar purposes [1, 2006.01]
	fitting [1, 2006.01]	19/22	 Keys with devices for indicating whether the last
13/10	• formed by a lock arranged in the handle [1, 2006.01]	19/24	 operation was locking or unlocking [1, 2006.01] Key-distinguishing marks [1, 2006.01]
15/00	Other details of locks; Parts for engagement by bolts of fastening devices (fastening devices for wings other than locks or associated with locks E05C) [1, 2006.01]	19/26	• Use of special materials for keys [1, 2006.01]
15/02	• Striking-plates; Keepers; Bolt staples; Escutcheons [1, 2006.01]		th rotary keys moving lamelliform tumblers cular to the key
15/04	• Spring arrangements in locks [1, 2006.01]		
15/06	• Lock wards [1, 2006.01]	21/00	Locks with rotary keys moving lamelliform tumblers
15/08	 Key guides; Key pins [1, 2006.01] 		perpendicular to the key, in which the tumblers do not follow the movement of the bolt [1, 2006.01]
15/10	• Bolts of locks or night latches [1, 2006.01]	21/02	 with identical tumblers [1, 2006.01]
15/12	• Pins or detents for locking bolts [1, 2006.01]	21/02	• with stop pins on the tumbler (E05B 21/02 takes
15/14	• Tumblers [1, 2006.01]	21/04	precedence) [1, 2006.01]
15/16	 Use of special materials for parts of locks (for handles E05B 1/00) [1, 2006.01] 	21/06	• Cylinder locks, e.g. protector locks [1, 2006.01]
17/00	Accessories in compostion with laster (Laster vide	23/00	Locks with rotary keys moving lamelliform tumblers

tumblers [1, 2006.01]

25/00

17/00

Accessories in connection with locks (locks with

indicating or timing devices E05B 39/00-E05B 45/00;

buffers E05F 5/00; means for preventing rattling of wings E05F 7/04; means for taking the weight of the

wing E05F 7/06) [1, 4, 2006.01]

perpendicular to the key, in which the tumblers

perpendicular to the key, characterised by the

Locks with rotary keys moving lamelliform tumblers

follow the movement of the bolt [1, 2006.01]

with tumblers in the cut-out of which the key bit is moved [1, 2006.01] with tumblers in which the stop pin is guided from one locked position to the other in an inclined direction [1, 2006.01] with tumblers in which the stop pin is guided from one locked position to the other along a curved path [1, 2006.01] with tumblers with movable pawls engaging the key [1, 2006.01] with tumblers formed to engage one another to determine their unlocked position [1, 2006.01] ich the tumblers are set by pushing the key in ylinder locks with tumbler pins or balls that are set y pushing the key in [1, 2006.01] operated by the edge of the key [1, 2006.01] arranged radially in one row [1, 2006.01] arranged axially [1, 2006.01] operated by other surfaces of the key, e.g. openings receiving projections on the tumblers [1, 2006.01]	37/08 37/10 37/12 37/14 37/16 37/18 37/20 37/22 Locks wi 39/00 39/02 39/04 41/00	 with tumbler discs on a single axis, all the discs being adjustable by a rotary knob which is not shifted [1, 2006.01] in padlocks [1, 2006.01] with tumbler discs on several axes [1, 2006.01] in padlocks [1, 2006.01] with two or more push or pull knobs, slides, or the like [1, 2006.01] in padlocks [1, 2006.01] puzzle locks [1, 2006.01] in padlocks [1, 2006.01] in padlocks [1, 2006.01] with indicating or timing devices Locks giving indication of unauthorised unlocking [1, 2006.01] with destructible seal closures or paper closures (seals per se G09F 3/00) [1, 4, 2006.01] with counting or registering devices [1, 2006.01] Locks with visible indication as to whether the lock is
one locked position to the other in an inclined direction [1, 2006.01] with tumblers in which the stop pin is guided from one locked position to the other along a curved path [1, 2006.01] with tumblers with movable pawls engaging the key [1, 2006.01] with tumblers formed to engage one another to determine their unlocked position [1, 2006.01] sich the tumblers are set by pushing the key in ylinder locks with tumbler pins or balls that are set y pushing the key in [1, 2006.01] operated by the edge of the key [1, 2006.01] arranged radially in one row [1, 2006.01] arranged axially [1, 2006.01] operated by other surfaces of the key, e.g. openings	37/12 37/14 37/16 37/18 37/20 37/22 Locks wi 39/00 39/02	 • in padlocks [1, 2006.01] • with tumbler discs on several axes [1, 2006.01] • in padlocks [1, 2006.01] • with two or more push or pull knobs, slides, or the like [1, 2006.01] • in padlocks [1, 2006.01] • Puzzle locks [1, 2006.01] • in padlocks [1, 2006.01] • in padlocks [1, 2006.01] with indicating or timing devices Locks giving indication of unauthorised unlocking [1, 2006.01] • with destructible seal closures or paper closures (seals per se G09F 3/00) [1, 4, 2006.01] • with counting or registering devices [1, 2006.01]
direction [1, 2006.01] with tumblers in which the stop pin is guided from one locked position to the other along a curved path [1, 2006.01] with tumblers with movable pawls engaging the key [1, 2006.01] with tumblers formed to engage one another to determine their unlocked position [1, 2006.01] ich the tumblers are set by pushing the key in ylinder locks with tumbler pins or balls that are set y pushing the key in [1, 2006.01] operated by the edge of the key [1, 2006.01] arranged radially in one row [1, 2006.01] arranged axially [1, 2006.01] operated by other surfaces of the key, e.g. openings	37/12 37/14 37/16 37/18 37/20 37/22 Locks wi 39/00 39/02	 with tumbler discs on several axes [1, 2006.01] in padlocks [1, 2006.01] with two or more push or pull knobs, slides, or the like [1, 2006.01] in padlocks [1, 2006.01] Puzzle locks [1, 2006.01] in padlocks [1, 2006.01] in padlocks [1, 2006.01] with indicating or timing devices Locks giving indication of unauthorised unlocking [1, 2006.01] with destructible seal closures or paper closures (seals per se G09F 3/00) [1, 4, 2006.01] with counting or registering devices [1, 2006.01]
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key [1, 2006.01] with tumblers formed to engage one another to determine their unlocked position [1, 2006.01] ich the tumblers are set by pushing the key in ylinder locks with tumbler pins or balls that are set y pushing the key in [1, 2006.01] operated by the edge of the key [1, 2006.01] arranged radially in one row [1, 2006.01] arranged radially in more than one row [1, 2006.01] arranged axially [1, 2006.01] operated by other surfaces of the key, e.g. openings	37/20 37/22 Locks wi 39/00 39/02 39/04	 Puzzle locks [1, 2006.01] in padlocks [1, 2006.01] ith indicating or timing devices Locks giving indication of unauthorised unlocking [1, 2006.01] with destructible seal closures or paper closures (seals per se G09F 3/00) [1, 4, 2006.01] with counting or registering devices [1, 2006.01]
with tumblers formed to engage one another to determine their unlocked position [1, 2006.01] ich the tumblers are set by pushing the key in ylinder locks with tumbler pins or balls that are set y pushing the key in [1, 2006.01] operated by the edge of the key [1, 2006.01] arranged radially in one row [1, 2006.01] arranged radially in more than one row [1, 2006.01] arranged axially [1, 2006.01] operated by other surfaces of the key, e.g. openings	37/22 Locks wi 39/00 39/02 39/04	 • in padlocks [1, 2006.01] ith indicating or timing devices Locks giving indication of unauthorised unlocking [1, 2006.01] • with destructible seal closures or paper closures (seals per se G09F 3/00) [1, 4, 2006.01] • with counting or registering devices [1, 2006.01]
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ylinder locks with tumbler pins or balls that are set y pushing the key in [1, 2006.01] operated by the edge of the key [1, 2006.01] arranged radially in one row [1, 2006.01] arranged radially in more than one row [1, 2006.01] arranged axially [1, 2006.01] operated by other surfaces of the key, e.g. openings	39/00 39/02 39/04	 Locks giving indication of unauthorised unlocking [1, 2006.01] with destructible seal closures or paper closures (seals per se G09F 3/00) [1, 4, 2006.01] with counting or registering devices [1, 2006.01]
ylinder locks with tumbler pins or balls that are set y pushing the key in [1, 2006.01] operated by the edge of the key [1, 2006.01] arranged radially in one row [1, 2006.01] arranged radially in more than one row [1, 2006.01] arranged axially [1, 2006.01] operated by other surfaces of the key, e.g. openings	39/02 39/04	 unlocking [1, 2006.01] with destructible seal closures or paper closures (seals per se G09F 3/00) [1, 4, 2006.01] with counting or registering devices [1, 2006.01]
 y pushing the key in [1, 2006.01] operated by the edge of the key [1, 2006.01] arranged radially in one row [1, 2006.01] arranged radially in more than one row [1, 2006.01] arranged axially [1, 2006.01] operated by other surfaces of the key, e.g. openings 	39/02 39/04	 unlocking [1, 2006.01] with destructible seal closures or paper closures (seals per se G09F 3/00) [1, 4, 2006.01] with counting or registering devices [1, 2006.01]
 operated by the edge of the key [1, 2006.01] arranged radially in one row [1, 2006.01] arranged radially in more than one row [1, 2006.01] arranged axially [1, 2006.01] operated by other surfaces of the key, e.g. openings 	39/04	 with destructible seal closures or paper closures (seals per se G09F 3/00) [1, 4, 2006.01] with counting or registering devices [1, 2006.01]
 arranged radially in one row [1, 2006.01] arranged radially in more than one row [1, 2006.01] arranged axially [1, 2006.01] operated by other surfaces of the key, e.g. openings 	39/04	(seals <u>per se</u> G09F 3/00) [1, 4, 2006.01] • with counting or registering devices [1, 2006.01]
 arranged radially in more than one row [1, 2006.01] arranged axially [1, 2006.01] operated by other surfaces of the key, e.g. openings 		
row [1, 2006.01] • arranged axially [1, 2006.01] operated by other surfaces of the key, e.g. openings	41/00	Locks with visible indication as to whether the lock is
• arranged axially [1, 2006.01] operated by other surfaces of the key, e.g. openings	41/00	Locks with visible indication as to whether the lock is
operated by other surfaces of the key, e.g. openings		
		locked or unlocked [1, 2006.01]
receiving projections on the tuniolets [1, 2000.01]	43/00	Time locks (clocks or clock mechanisms with attached
		or built-in means operating any device at preselected
ylinder locks with plate tumblers that are set by		times or after a predetermined time interval
ushing the key in [1, 2006.01]		G04C 23/00) [1, 2006.01]
operated by the edge of the key [1, 2006.01]	45 /00	Alarm lacks (slarm devices actuated by tamporing with
 arranged singly [1, 2006.01] 	45/00	Alarm locks (alarm devices actuated by tampering with fastenings in general G08B) [1, 2006.01]
	45/02	 with mechanically-operated bells [1, 2006.01]
• •		 with detonating alarm devices [1, 2006.01]
 operated by a curved groove or slot [1, 2006.01] 		 Electric alarm locks [1, 2006.01]
•		 with contact making inside the lock or in the
	457 00	striking plate [1, 2006.01]
tumblers [1, 2006.01]	45/10	• • • by introducing the key [1, 2006.01]
vlinder locks with both tumbler pins or balls and	45/12	• • • by movement of the bolt [1, 2006.01]
late tumblers that are set by pushing the key	45/14	• • with contact making outside the lock [1, 2006.01]
ylinder locks with tumblers that are set by pushing the key in, in which the bolt is moved by means other	Operation or control of locks by non-mechanical means, e.g from a distance	
aan tne key [1, 2006.01]	47/00	Operating or controlling locks or other fastening devices by electric or magnetic means (electric
		permutation locks E05B 49/00; holding in open position
ocks for use with special keys or a plurality of		or limiting movement of wings by magnetic or
eys [1, 2006.01]		electromagnetic attraction E05C 17/56; key switches
which can be shifted laterally [1, 2006.01]		H01H 27/00) [1, 2, 2006.01]
for pull keys [1, 2006.01]	47/02	Adaptation of locks, latches, or parts thereof, for
for screw keys [1, 2006.01]		movement of the bolt by electromagnetic
operable by a plurality of keys [1, 2006.01]	47/04	means [1, 2006.01] • for unlocking only [1, 2006.01]
• with master and pass keys [1, 2006.01]		for unlocking only [1, 2006.01]Controlling mechanically-operated bolts by
 requiring the use of two keys, e.g. safe-deposit locks [1, 2006.01] 		 Controlling mechanically-operated boits by electromagnetically-operated detents [1, 2006.01] the bolt being withdrawn by a spring which is
with keys of which different parts operate separate mechanisms [1, 2006.01]	4//00	stressed by closing the wing [1, 2006.01]
ermutation locks (electric permutation locks	49/00	Electric permutation locks; Circuits therefor [1, 2006.01]
cks [1, 2006.01]	49/02	 with electrical arrangements inside the lock [1, 2006.01]
each disc being adjustable independently of the others [1, 2006.01]	49/04	 with electrical arrangements outside the lock [1, 2006.01]
with tumbler discs on a single axis, all the discs being adjustable by rotating a shiftable knob [1, 2006.01]	51/00	Operating or controlling locks or other fastening devices by other non-mechanical means [1, 2006.01]
 in padlocks [1, 2006.01] 	51/02	 by pneumatic or hydraulic means [1, 2006.01]
	 arranged in pairs [1, 2006.01] operated by other surfaces of the key [1, 2006.01] operated by a curved groove or slot [1, 2006.01] operated by a curved rib [1, 2006.01] with both axially and radially arranged plate tumblers [1, 2006.01] ylinder locks with both tumbler pins or balls and late tumblers that are set by pushing the key [1, 2006.01] ylinder locks with tumblers that are set by pushing le key in, in which the bolt is moved by means other lan the key [1, 2006.01] ocks for use with special keys or a plurality of eys [1, 2006.01] for pull keys [1, 2006.01] for screw keys [1, 2006.01] with master and pass keys [1, 2006.01] requiring the use of two keys, e.g. safe-deposit locks [1, 2006.01] with keys of which different parts operate separate mechanisms [1, 2006.01] ermutation locks (electric permutation locks [1, 2006.01] with tumbler discs or rings arranged on a single axis, each disc being adjustable independently of the 	 arranged in pairs [1, 2006.01] arranged in pairs [1, 2006.01] operated by other surfaces of the key [1, 2006.01] operated by a curved groove or slot [1, 2006.01] operated by a curved rib [1, 2006.01] with both axially and radially arranged plate tumblers [1, 2006.01] ylinder locks with both tumbler pins or balls and ate tumblers that are set by pushing the key [1, 2006.01] ylinder locks with tumblers that are set by pushing le key in, in which the bolt is moved by means other than the key [1, 2006.01] yocks for use with special keys or a plurality of eys [1, 2006.01] yor ylinder locks with tumblers that are set by pushing le key in, in which the bolt is moved by means other than the key [1, 2006.01] yor ylinder locks with tumblers that are set by pushing le key in, in which the bolt is moved by means other than the key [1, 2006.01] yor ylinder locks with tumblers that are set by pushing le key in, in which the bolt is moved by means other than the key [1, 2006.01] yor ylinder locks with tumblers that are set by pushing le key in, in which the bolt is moved by means other from a district of the set of the set

53/00 Operation or control of locks by mechanical transmissions, e.g. from a distance [1, 2006.01]

Locks with provision for latching

55/00	Locks in which a sliding latch is used also as a
	locking bolt [1, 2006.01]

- the bolt being secured by the tumbler [1, 2006.01]
- the bolt being secured by the cross-bar or the turnbuckle and the handle being locked **[1, 2006.01]**
- the handle being disconnected **[1, 2006.01]**
- 55/08 the bolt being secured by transverse bolts [1, 2006.01]
- 55/10 • without securing the bolt **[1, 2006.01]**
- the bolt being secured by the operation of a hidden parallel member [1, 2006.01]
- the bolt being secured by the operation of a wing handle, or by means in the wing handle or knob [1, 2006.01]
- 55/16 merely by normal use of the handle on one side of the wing **[1, 2006.01]**
- 57/00 Locks in which a pivoted latch is used also as locking means [1, 2006.01]

59/00 Locks with latches separate from the lock-bolts, or with a plurality of latches or lock-bolts [1, 2006.01]

- 59/02 with arrangements for securing the latch while shooting the lock-bolt [1, 2006.01]
- 59/04 Locks in which the latch is moved by a lock-bolt, or the lock-bolt by a latch, or one latch by another, or the like [1, 2006.01]
- with a lock-bolt slidable in the latch [1, 2006.01]
- 61/00 Other locks with provision for latching [1, 2006.01]

Locks with special structural characteristics or for special use

63/00 Locks with special structural characteristics [1, 2006.01]

- 63/02 without springs [1, 2006.01]
- 63/04 for alternative use on the right-hand or left-hand side of wings [1, 2006.01]
- with lengthwise-adjustable bolts [1, 2006.01]
- 63/08 Mortise locks [1, 2006.01]
- 63/10 requiring only two cylindrical holes in the wing [1, 2006.01]
- with means carried by the bolt for interlocking with the keeper **[1, 2006.01]**
- Arrangement of several locks or locks with several bolts, e.g. arranged one behind the other (locks for keys with several bits E05B 35/14; with provision for latching E05B 59/00, E05B 61/00; arrangements of simultaneously-actuated bolts or other securing devices at well-separated positions on the same wing E05C 9/00) [1, 4, 2006.01]
- with the handles on opposite sides moving independently (the latch being secured by the operation of a wing handle E05B 55/14) [1, 2006.01]
- 63/18 with arrangements independent of the locking mechanism for retaining the bolt in the retracted position [1, 2006.01]
- 63/20 released automatically when the wing is closed [1, 2006.01]

- operated by a pulling or pushing action perpendicular to the front plate (E05B 35/04 takes precedence) [1, 2006.01]
- Arrangements in which the fastening members which engage one another are mounted respectively on the wing and the frame and are both movable, e.g. for release by moving either of them (hasp locks E05B 65/48; hasp fastenings E05C 19/08) [4, 2006.01]

65/00 Locks for special use [1, 2006.01]

- 65/02 for thin, hollow, or thin-metal wings **[1, 2006.01]**
- for wings, one behind the other, hinged on the same side (fastening devices specially adapted for two wings which lie one behind the other when closed E05C 7/02) [1, 4, 2006.01]
- 65/06 for swing doors [1, 2006.01]
- 65/08 for sliding wings [1, 2006.01]
- for panic or emergency doors **[1, 2006.01]**
- 65/44 for furniture or drawers [1, 2006.01]
- 65/46 • Special locks for drawers, e.g. for a plurality of drawers [1, 4, 2006.01]
- 65/48 Hasp locks (hasp fastenings other than locks E05C 19/08) [1, 2006.01]
- 65/50 • for briefcases **[1, 2006.01]**
- Other locks for chests, boxes, trunks, baskets, travelling bags, or the like (closures for bags or trunks A45C 13/06, A45C 13/10, A45C 13/16) [1, 2006.01]

67/00 Padlocks (permutation locks E05B 37/00); **Details thereof** [1, 2006.01]

- 67/02 Cases [1, 2006.01]
- 67/04 • Armoured cases [1, 2006.01]
- Shackles; Arrangement of the shackle [1, 2006.01]
- 67/08 • Padlocks with shackles hinged on the case [1, 2006.01]
- 67/10 • with devices for securing the free end of the shackle [1, 2006.01]
- 67/12 • with built-in cylinder locks [1, 2006.01]
- 67/14 • with devices for securing the hinged end of the shackle [1, 2006.01]
- 67/16 • with built-in cylinder locks **[1, 2006.01]**
- 67/18 • with devices for securing both ends of the shackle [1, 2006.01]
- 67/20 • with built-in cylinder locks [1, 2006.01]
- • Padlocks with sliding shackles, with or without rotary or pivotal movement [1, 2006.01]
- 67/24 • with built-in cylinder locks [1, 2006.01]
- 67/26 • with screw action, with or without the shackle being moved by turning the key **[1, 2006.01]**
- 67/28 Padlocks with shackles forming a circle [1, 2006.01]
- 67/30 • with built-in cylinder locks **[1, 2006.01]**
- 67/32 Padlocks with pincer-like shackles [1, 2006.01]
- 67/34 • with built-in cylinder locks **[1, 2006.01]**
- 67/36 Padlocks with closing means other than shackles [1, 2006.01]
- 67/38 Auxiliary or protective devices **[1, 2006.01]**

Locking devices for clothing, sticks, umbrellas, or cycles

69/00 Devices for locking clothing; Lockable clothing holders or hangers (dress or hat holders in general A47G 25/00) [1, 2006.01]

Locks for vehicles other than bicycles [2014.01]		
75/00	Handcuffs [1, 2006.01]	
73/02	 for in other groups of this subclass [1, 2006.01] for walking-sticks or umbrellas (stick or umbrella holders in general A47G 25/12) [1, 2006.01] 	
73/00	Devices for locking portable objects against unauthorised removal; Locking devices not provided	
71/02	• with permutation locking devices [1, 2006.01]	
71/00	Locks specially adapted for bicycles, other than padlocks (locks integral with cycles B62H 5/00) [1, 2006.01]	
69/02	 Lockable clothing hooks (coin-controlled locking hooks G07F) [1, 2006.01] 	

77/00	Vehicle locks characterised by special functions or
	purposes (locks specially adapted for bicycles
E05B 71/00; locking arrangements for non-fixed	
	roofs B60J 7/185) [2014.01]

- 77/02 for accident situations [2014.01]
- 77/04 Preventing unwanted lock actuation, e.g. unlatching, at the moment of collision [2014.01]
- 77/06 by means of inertial forces [2014.01]
- Arrangements for protection of 77/08 pedestrians [2014.01]
- 77/10 Allowing opening in case of deformed bodywork, e.g. by preventing deformation of lock parts [2014.01]
- Automatic locking or unlocking at the moment of 77/12 collision [2014.01]
- Specially controlled locking actions in case of open 77/14 doors or in case of doors moved from an open to a closed position, e.g. lock-out prevention or selfcancelling [2014.01]
- Preventing locking with the bolt in the unlatched 77/16 position, i.e. when the door is open [2014.01]
- Keyless locking with self-cancellation, e.g. 77/18 resulting in an unlocking action when the door is being closed [2014.01]
- 77/20 Override of self-cancellation, e.g. by actuation of the handle while the door is being closed [2014.01]
- Functions related to actuation of locks from the 77/22 passenger compartment of the vehicle [2014.01]
- preventing use of an inner door handle, sill button, 77/24 lock knob or the like [2014.01]
- specially adapted for child safety [2014.01] 77/26
- for anti-theft purposes, e.g. double-locking or 77/28 super-locking [2014.01]
- 77/30 allowing opening by means of an inner door handle, even if the door is locked [2014.01]
- 77/32 · allowing simultaneous actuation of locking or unlocking elements and a handle, e.g. preventing interference between an unlocking and an unlatching action [2014.01]
- 77/34 Protection against weather or dirt, e.g. against water ingress (closures or guards for keyholes E05B 17/14) [2014.01]
- Noise prevention; Anti-rattling means [2014.01] 77/36

- 77/38 Cushion elements, elastic guiding elements or holding elements, e.g. for cushioning or damping the impact of the bolt against the striker during closing of the wing [2014.01]
- 77/40 Lock elements covered by silencing layers, e.g. coatings [2014.01]
- 77/42 Means for damping the movement of lock parts, e.g. slowing down the return movement of a handle (E05B 77/38 takes precedence) [2014.01]
- 77/44 Burglar prevention, e.g. protecting against opening by unauthorised tools (E05B 77/28 takes precedence) [2014.01]
- 77/46 Locking several wings simultaneously [2014.01]
- 77/48 by electrical means [2014.01]
- 77/50 by pneumatic or hydraulic means [2014.01]
- 77/52 Locking one wing by shutting another [2014.01]
- 77/54 Automatic securing or unlocking of bolts triggered by certain vehicle parameters, e.g. exceeding a speed threshold (triggered by vehicle collision E05B 77/12) [2014.01]

79/00 Mounting or connecting vehicle locks or parts thereof [2014.01]

- 79/02 • Mounting of vehicle locks or parts thereof [2014.01]
- 79/04 Mounting of lock casings to the vehicle, e.g. to the wing [2014.01]
- 79/06 Mounting of handles, e.g. to the wing or to the lock [2014.01]
- Mounting of individual lock elements in the lock, 79/08 e.g. levers [2014.01]
- 79/10 Connections between movable lock parts [2014.01]
- using connecting rods [2014.01] 79/12
- 79/14 the rods being linked to each other [2014.01]
- 79/16 characterised by means for linking the rods to other lock parts, e.g. to levers [2014.01]
- 79/18 Rod guides [2014.01]
- 79/20 using flexible connections, e.g. Bowden cables [2014.01]
- 79/22 Operative connections between handles, sill buttons or lock knobs and the lock unit (mounting of non-movable base elements of a handle to a lock E05B 79/06) [2014.01]

81/00 Power-actuated vehicle locks [2014.01]

- 81/02 characterised by the type of actuators used [2014.01]
- 81/04 Electrical (electrical circuits E05B 81/54) [2014.01]
- 81/06 using rotary motors [2014.01]
- 81/08 using electromagnets or solenoids [2014.01]
- Hydraulic or pneumatic (hydraulic or pneumatic 81/10 circuits E05B 81/52) [2014.01]
- characterised by the function or purpose of the 81/12 powered actuators [2014.01]
- 81/14 operating on bolt detents, e.g. for unlatching the bolt **[2014.01]**
- 81/16 operating on locking elements for locking or unlocking action [2014.01]
- to effect movement of bolts (E05B 81/20 takes 81/18precedence) [2014.01]
- for assisting final closing or for initiating 81/20 opening [2014.01]
- 81/22 • by movement of the striker [2014.01]
- 81/24 characterised by constructional features of the actuator or the power transmission [2014.01]
- 81/26 Output elements **[2014.01]**
- 81/28 Linearly reciprocating elements [2014.01]
- 81/30 Rotary elements [2014.01]

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81/32	• • Details of the actuator transmission [2014.01]	83/06	• • of railway freight-cars [2014.01]
81/34 81/36	• of geared transmissions [2014.01]• • Geared sectors, e.g. fan-shaped	83/08	 with elongated bars for actuating the fastening means [2014.01]
01750	gears [2014.01]	83/10	• • • Rotary bars [2014.01]
81/38	• • • • Planetary gears [2014.01]	83/12	 for back doors of vans (E05B 83/04, E05B 83/08 take precedence) [2014.01]
81/40	 • Nuts or nut-like elements moving along a driven threaded axle [2014.01] 	83/14	 with provisions for sealing [2014.01]
81/42	• • • Cams [2014.01]	83/16	Locks for luggage compartments, car boot lids or car
81/44	• • • in the form of grooves [2014.01]	00/40	bonnets [2014.01]
81/46 81/48	• Clutches [2014.01]• Actuators being driven in a single	83/18	 for car boot lids or rear luggage compartments [2014.01]
81/50	direction [2014.01] • Powered actuators with automatic return to the	83/20	• • with two or more wings, which together close a single compartment [2014.01]
01700	neutral position by non-powered means, e.g. by springs [2014.01]	83/22	 for luggage compartments at the side of the vehicle, e.g. of buses or camper vans [2014.01]
81/52	 Pneumatic or hydraulic circuits (for locking several 	83/24	• • for car bonnets [2014.01]
0.4.	wings simultaneously E05B 77/50) [2014.01]	83/26	Emergency opening means for persons trapped in
81/54	 Electrical circuits (for locking several wings simultaneously E05B 77/48) [2014.01] 	83/28	the luggage compartment [2014.01] • Locks for glove compartments, console boxes, fuel
81/56	 Control of actuators [2014.01] 		inlet covers or the like [2014.01]
81/58	• • involving time control, e.g. for controlling run-	83/30	• • for glove compartments [2014.01]
81/60	time of electric motors [2014.01] • • • using pulse control, e.g. pulse-width	83/32	 for console boxes, e.g. between passenger seats [2014.01]
81/62	modulation [2014.01] • • for opening or closing of a circuit depending on	83/34	 for fuel inlet covers essentially flush with the vehicle surface [2014.01]
	electrical parameters, e.g. increase of motor	83/36	 Locks for passenger or like doors [2014.01]
	current [2014.01]	83/38	 for pillar-less vehicles, i.e.vehicles where a front
81/64	 Monitoring or sensing, e.g. by using switches or sensors [2014.01] 		and a back door engage each other in the closed position [2014.01]
81/66	 the bolt position, i.e. the latching 	83/40	• • for sliding doors [2014.01]
	status [2014.01]	83/42	 for large commercial vehicles, e.g. trucks,
81/68	• • • by sensing the position of the detent [2014.01]		construction vehicles or vehicles for mass transport [2014.01]
81/70	• • • the wing position [2014.01]	83/44	• • for recreational vehicles, e.g. caravans or camper
81/72	 the lock status, i.e. locked or unlocked condition [2014.01] 		vans [2014.01]
81/74	• • • by sensing the state of the actuator [2014.01]	85/00	Details of vehicle locks not provided for in groups
81/76	• • • Detection of handle operation; Detection of a	85/02	E05B 77/00-E05B 83/00 [2014.01]Lock casings (mounting of lock casings
	user approaching a handle; Electrical switching actions performed by handles [2014.01]		E05B 79/04) [2014.01]
81/78	 • • • as part of a hands-free locking or unlocking 	85/04	• Strikers [2014.01]
	operation [2014.01]	85/06	Lock cylinder arrangements [2014.01] Sill buttons garrish buttons on input dear leads
81/80	 characterised by the power supply; Emergency power operation [2014.01] 	85/08	 Sill-buttons, garnish buttons or inner door lock knobs [2014.01]
81/82	• • using batteries other than the vehicle main	85/10	• Handles [2014.01]
	battery [2014.01]	85/12	• • Inner door handles [2014.01]
81/84	 using manually operated generator means [2014.01] 	85/14	 Handles pivoted about an axis parallel to the wing [2014.01]
81/86	• • • using capacitors [2014.01]	85/16	• • • a longitudinal grip part being pivoted at one
81/88	• • • using inductive energy transmission [2014.01]		end about an axis perpendicular to the
81/90	 Manual override in case of power failure [2014.01] 	0E /10	longitudinal axis of the grip part [2014.01]
83/00	Vehicle locks specially adapted for particular types of wing or vehicle (locks specially adapted for bicycles	85/18	 a longitudinal grip part being pivoted about an axis parallel to the longitudinal axis of the grip part [2014.01]
	E05B 71/00; locking arrangements for non-fixed vehicle	85/20	• Bolts or detents [2014.01]
	roofs B60J 7/185; latching means for sideboards or	85/22	Rectilinearly moving bolts [2014.01]
	tailgates of open load compartments	85/24	Bolts rotating about an axis [2014.01]
02.402	B62D 33/037) [2014.01]	85/26	 Cooperation between bolts and
83/02	 Locks for railway freight-cars, freight containers or the like; Locks for the cargo compartments of 		detents [2014.01]
		85/28	 • in which the member engaging the keeper is
83/04	commercial lorries, trucks or vans [2014.01]for sliding wings [2014.01]		shaped as a toothed wheel or the like [2014.01]

BOLTS OR FASTENING DEVICES FOR WINGS, SPECIALLY FOR DOORS OR WINDOWS (latching means for sideboard or tailgate structures for vehicles B62D 33/037; 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)

Note(s)

- 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 definitions following the title of class E05.

Subclass index

FASTENING DEVICES	
characterised by the way the bolt is moved	1/00-5/00
specially for holding wings open	17/00, 19/00
specially adapted for two wings	7/00
ARRANGEMENT OF FASTENING, SECURING, OR LOCKING DEVICES	

Bolts, latches or equivalent wing-fastening devices, characterised by special way of movement, e.g. moving rectilinearly, pivotally or rotatively

1/00	Fastening devices with bolts moving rectilinearly	
(devices released automatically by pull or pres		
	the wing E05C 19/02) [1, 2006.01]	

- 1/02 without latching action [1, 2006.01]
- with operating handle or equivalent member rigid with the bolt [1, 2006.01]
- with operating handle or equivalent member moving otherwise than rigidly with the bolt [1, 2006.01]
- 1/08 with latching action [1, 2006.01]
- 1/10 with operating handle or equivalent member rigid with the latch [1, 2006.01]
- with operating handle or equivalent member moving otherwise than rigidly with the latch [1, 2006.01]
- 1/14 • the handle or member moving essentially towards, or away from, the plane of the wing or frame [1, 2006.01]
- 1/16 • the handle or member moving essentially in a plane substantially parallel to the wing **[1, 2006.01]**

3/00 Fastening devices with bolts moving pivotally or rotatively (devices released automatically by pull or pressure on the wing E05C 19/02) [1, 2006.01]

- 3/02 without latching action [1, 2006.01]
- with operating handle or equivalent member rigid with the bolt [1, 2006.01]
- with operating handle or equivalent member moving otherwise than rigidly with the bolt [1, 2006.01]
- 3/08 • the handle or member moving essentially towards, or away from, the plane of the wing or frame [1, 2006.01]
- 3/10 • the handle or member moving essentially in a plane substantially parallel to the wing [1, 2006.01]
- 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 19/06) [1, 2006.01]

- 3/14 with operating handle or equivalent member rigid with the latch [1, 2006.01]
- with operating handle or equivalent member moving otherwise than rigidly with the latch [1, 2006.01]
- 3/22 • the bolt being spring-controlled **[1, 2006.01]**
- 3/24 • in the form of a bifurcated member **[1, 2006.01]**
- 3/26 • • engaging a stud-like keeper **[1, 2006.01]**
- 3/28 • • with simultaneously-operating double bolts [1, 2006.01]
- 3/30 • • in the form of a hook **[1, 2006.01]**
- 3/32 • • engaging a hooked keeper (E05C 3/34 takes precedence) [1, 2006.01]
- 3/34 • • with simultaneously-operating double bolts [1, 2006.01]
- 3/36 • • in the form of a rotary gear [1, 2006.01]
- 3/38 • • with bolts engaging a hooked keeper (E05C 3/24, E05C 3/30, E05C 3/36 take precedence) [1, 2006.01]
- 3/40 • with bolts engaging a stud-like keeper (E05C 3/24, E05C 3/30, E05C 3/36 take precedence) [1, 2006.01]

5/00 Fastening devices with bolts moving otherwise than only rectilinearly and only pivotally or rotatively (devices released automatically by pull or pressure on the wing E05C 19/02) [1, 2006.01]

- both moving axially and turning about their axes to secure the wing [1, 2006.01]
- 5/04 performing both movements simultaneously, e.g. screwing into a keeper **[1, 2006.01]**

7/00 Fastening devices specially adapted for two wings [1, 2006.01]

Note(s)

In this group, 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.

- 7/02 for wings which lie one behind the other when closed [1, 2006.01]
- 7/04 for wings which abut when closed **[1, 2006.01]**

7/06	 a fastening device for one wing being actuated or controlled by closing another wing [1, 2006.01] 	17/28	• • • • with braking, clamping or securing means at the connection to the guide member [1, 4, 2006.01]
9/00	Arrangement of simultaneously-actuated bolts or other securing devices at well-separated positions on	17/30	• • of extensible, e.g. telescopic, construction (flexible members E05C 17/36) [1, 2006.01]
	the same wing (essentially involving locking means E05B 63/14; similar constructions for engineering	17/32	• • consisting of two or more pivoted rods [1, 2006.01]
	closures for pressure vessels, in general F16J 13/08) [1, 2006.01]	17/34	• • • with means for holding in more than one position [1, 2006.01]
9/02	 with one sliding bar for fastening when moved in one direction and unfastening when moved in opposite 	17/36	• • comprising a flexible member, e.g. chains [1, 2006.01]
	direction; with two sliding bars moved in the same direction when fastening or unfastening [1, 4, 2006.01]	17/38	with a curved rail rigid with the frame for engagement with means on the wing, or <u>vice</u>
9/04	 with two sliding bars moved in opposite directions when fastening or unfastening [1, 2006.01] 	17/40	versa [1, 2006.01]• Bars or like parts connecting a right wing with a
9/06	 with three or more sliding bars [1, 2006.01] 		left wing which move against each other when
9/08	• with a rotary bar for actuating the fastening means [1, 2006.01]	17/42	 being closed [1, 2006.01] connecting exterior and interior
9/10	Actuating mechanisms for bars [1, 2006.01]	17/44	wings [1, 2006.01]with a device carried on the wing for frictional or
9/12	 with gears and racks [1, 2006.01] 	17/44	like engagement with a fixed flat surface, e.g.
9/14	 with pins engaging slots [1, 2006.01] 		retractable feet [1, 2006.01]
9/16	• • with crank pins and connecting rods [1, 2006.01]	17/46	• • in which the wing or a member fixed thereon is
9/18	 Details of fastening means or of fixed retaining means for the ends of bars [1, 2006.01] 		engaged by a movable fastening member in a fixed position; in which a movable fastening
9/20	Coupling means for sliding bars, rods, or cables [4, 2006.01]	17/40	member mounted on the wing engages a stationary member [1, 4, 2006.01]
9/22	• Guides for sliding bars, rods, or cables (corner guides E05C 9/24) [4, 2006.01]	17/48	• • comprising a sliding securing member [1, 2006.01]
9/24	Means for transmitting movements between vertical and horizontal sliding bars, rods, or cables, e.g.	17/50	• • • comprising a single pivoted securing member [1, 2006.01]
	corner guides (means for transmitting movements between vertical and horizontal sliding bars, rods, or	17/52	• • comprising a snap, catch, or the like [1, 2006.01]
	cables, for moving wings into open or closed position E05F 7/08) [4, 2006.01]	17/54	• • Portable devices, e.g. wedges [1, 2006.01]
	2001 7700) [1, 200001]	17/56	 by magnetic or electromagnetic attraction (operation of locks or fasteners by electric or magnetic means
17/00	Devices for holding wings open; Devices for limiting		E05B 47/00) [1, 2, 2006.01]
	opening of wings or for holding wings open by a	17/58	• operated or controlled from a distance [1, 2006.01]
	movable member extending between frame and wing; Braking devices, stops or buffers, combined	17/60	 holding sliding wings open [4, 2006.01]
	therewith (combined with hinges E05D 11/00;	17/62	• • using notches [4, 2006.01]
	combined with operating apparatus for wings E05F;	17/64	• • by friction [4, 2006.01]
	other braking devices, stops, buffers E05F 5/00) [1, 4, 2006.01]	19/00	Other devices specially designed for securing wings
17/02	 by mechanical means (E05C 17/60 takes precedence) [1, 4, 2006.01] 	10/02	(movable draft sealings additionally used for bolting E06B 7/18) [1, 2, 2006.01]
17/04	• with a movable bar or equivalent member extending between frame and wing [1, 2006.01]	19/02	 Automatic catches, i.e. released by pull or pressure on the wing (E05C 19/06 takes precedence) [1, 2006.01]
17/06	 releasable to allow further opening only when the wing is nearly closed [1, 2006.01] 	19/04	 Ball or roller catches [1, 2006.01]
17/08	 with special means for release, e.g. automatic release by further opening [1, 2006.01] 	19/06	 in which the securing part is formed or carried by a spring and moves only by distortion of the spring,
17/10	 incorporating a special device for securing the wing in the closed position [1, 2006.01] 	19/08	e.g. snaps [1, 2006.01] • Hasps; Hasp fastenings; Spring catches
17/12	• • • consisting of a single rod [1, 2006.01]		therefor [1, 2006.01]
17/14	• • • • Hook and eye, or equivalent [1, 2006.01]	19/10	Hook fastenings; Fastenings in which a link engages The state of the state
17/16	• • • pivoted only at one end and having an elongated slot [1, 2006.01]	19/12	a fixed hook-like member [1, 2006.01]pivotally mounted [1, 2006.01]
17/18	• • • pivoted only at one end and having a row of holes, notches, or pins [1, 2006.01]	19/14 19/16	• • with toggle action [1, 2006.01]• Devices holding the wing by magnetic or
17/20	• • • sliding through a guide (E05C 17/18 takes precedence) [1, 2006.01]	19/18	electromagnetic attraction [1, 2006.01]Portable devices specially adapted for securing wings
17/22	• • • • with braking, clamping or securing means in the guide [1, 4, 2006.01]		(preventing operation of handles E05B 13/00) [1, 2006.01]
17/24	• • • pivoted at one end, and with the other end running along a guide member [1, 2006.01]	21/00	Arrangement or combinations of wing fastening,
17/26	• • • • with braking, clamping or securing means at the pivot of the rod [1, 4, 2006.01]		securing, or holding devices, not covered by any single one of main groups E05C 1/00-E05C 19/00 [1, 2006.01]

21/02 • for holding a wing closed only **[1, 2006.01]**

frame **[1, 2006.01]**

7/06

• to allow tilting of the members [1, 2006.01]

E05D HINGES OR OTHER SUSPENSION DEVICES FOR DOORS, WINDOWS, OR WINGS (pivotal connections in general F16C 11/00)

Subclass index

HINGES

IIIIVGES					
Gene	ral structure		1/00, 3/00		
Special structure					
	ils; accessories				
OTHER	SUSPENSION DEVICES FOR WINGS		13/00, 15/00		
1/00	Pinless hinges; Substitutes for hinges [1, 2006.01]	7/08	for use in suspensions comprising two spigots placed		
1/02	 made of one piece [1, 2006.01] 		at opposite edges of the wing, especially at the top		
1/04	 with guide members shaped as circular 		and the bottom, e.g. trunnions [1, 2006.01]		
	arcs [1, 2006.01]	7/081	• • the pivot axis of the wing being situated near one		
1/06	• consisting of two easily-separable parts [1, 2006.01]		edge of the wing (braking devices therefor E05D 11/08) [2, 2006.01]		
3/00	Hinges with pins [1, 2006.01]	7/082	the pivot axis of the wing being situated at a		
3/02	• with one pin [1, 2006.01]		considerable distance from the edges of the		
3/04	engaging three or more parts, e.g. sleeves,		wing [2, 2006.01]		
	movable relatively to one another for connecting	7/083	 • with a fixed pivot axis [2, 2006.01] 		
	two or more wings to another	7/084	• • • with a movable pivot axis [2, 2006.01]		
	member [1, 2006.01]	7/085	• • • with two or more pivot axes, e.g. used at the		
3/06	 with two or more pins (E05D 7/08 takes 		same time [2, 2006.01]		
	precedence) [1, 2, 2006.01]	7/086	 Braking devices structurally combined with 		
3/08	for swing-doors, i.e. openable by pushing from		hinges (braking devices for windows per se		
D./40	either side [1, 2006.01]	7/10	E05F 5/00) [2, 2006.01]		
3/10	• • with non-parallel pins [1, 2006.01]	7/10	• to allow easy separation of the parts at the hinge axis (substitutes for hinges E05D 1/06) [1, 2006.01]		
3/12	• • with two parallel pins and one arm (E05D 3/08	7/12	• to allow easy detachment of the hinge from the wing		
2/14	takes precedence) [7, 2006.01]	//12	or the frame [1, 2006.01]		
3/14	 with four parallel pins and two arms (E05D 3/08 takes precedence) [7, 2006.01] 	7/14	 Hinges for safes [1, 2006.01] 		
3/16	 with seven parallel pins and four arms (E05D 3/08 	7/14	11111ges for suites [1, 2000.01]		
3/10	takes precedence) [7, 2006.01]	9/00	Flaps or sleeves specially designed for making from		
3/18	 with sliding pins or guides (E05D 3/08 takes 		particular material, e.g. hoop-iron, sheet metal,		
5, 25	precedence) [7, 2006.01]		plastics [1, 2006.01]		
5/00	Construction of single parts, e.g. the parts for	11/00	Additional features or accessories of		
3/00	attachment [1, 2006.01]		hinges [1, 2006.01]		
5/02	 Parts for attachment, e.g. flaps [1, 2006.01] 	11/02	 Lubricating arrangements [1, 2006.01] 		
5/04	• • Flat flaps [1, 2006.01]	11/04	 relating to the use of free balls as bearing-surfaces 		
5/06	 Bent flaps [1, 2006.01] 		(E05D 7/06 takes precedence) [1, 2006.01]		
5/08	• • of cylindrical shape [1, 2006.01]	11/06	 Devices for limiting the opening movement of 		
5/10	Pins, sockets or sleeves; Removable pins		hinges [1, 2006.01]		
5/10	(E05D 15/522 takes precedence) [1, 2, 2006.01]	11/08	• Friction devices between relatively-movable hinge		
5/12	 Securing pins in sockets, movably or 	44.40	parts (E05D 7/086 takes precedence) [1, 2, 2006.01]		
	not [1, 2006.01]	11/10	 Devices for preventing movement between relatively- movable hinge parts [1, 2006.01] 		
5/14	 Construction of sockets or sleeves [1, 2006.01] 		movable imige parts [1, 2000.01]		
5/16	 to be secured without special attachment parts 	13/00	Accessories for sliding or lifting wings, e.g. pulleys,		
	on the socket or sleeve [1, 2006.01]		safety catches (counterbalance devices E05F 1/00,		
			E05F 3/00) [1, 4, 2006.01]		
7/00	Hinges or pivots of special construction (used for	4= /00			
	special suspension arrangements E05D 15/00; so as to be self-closing E05F 1/06, E05F 1/12; with means for	15/00	Suspension arrangements for wings (arrangements of		
	raising wings before being turned		wings not characterised by the construction of the		
	E05F 7/02) [1, 2006.01]	15/02	supporting means E06B 3/32) [1, 2006.01]for revolving wings [1, 2006.01]		
7/02	 for use on the right-hand as well as on the left-hand 	15/02	 with arms fixed on the wing pivoting about an axis 		
., 0=	side; Convertible right-hand or left-hand	13/04	outside of the wing [1, 2006.01]		
	hinges [1, 2006.01]	15/06	 for wings sliding horizontally more or less in their 		
7/04	 Hinges adjustable relative to the wing or the 	10,00	own plane [1, 2006.01]		
	frame [1, 2006.01]	15/00			

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15/08

• • consisting of two or more independent parts

movable each in its own guides [1, 2006.01]

15/10	 movable out of one plane into a second parallel plane [1, 2006.01] 	15/38 • • for upwardly-moving wings, e.g. up-and-over doors [1, 2006.01]
15/12	 consisting of parts connected at their edges [1, 2006.01] 	• supported on arms movable in vertical planes [1, 2006.01]
15/14	 with movable arms situated in the plane of the wing [1, 2006.01] 	• • with pivoted arms and horizontally-sliding guides [1, 2006.01]
15/16	 for wings sliding vertically more or less in their own plane [1, 2006.01] 	• • with pivoted arms and vertically-sliding guides [1, 2006.01]
15/18	 consisting of two or more independent parts 	15/46 • • with two pairs of pivoted arms [1, 2006.01]
	movable each in its own guides [1, 2006.01]	• allowing alternative movements (for vertically-
15/20	 movable out of one plane into a second parallel 	sliding wings E05D 15/22) [1, 2006.01]
	plane [1, 2006.01]	15/50 • • for opening at either of two opposite
15/22	 allowing an additional movement [1, 2006.01] 	edges [1, 2006.01]
15/24	 consisting of parts connected at their edges [1, 2006.01] 	• • for opening about a vertical as well as a horizontal axis [1, 2006.01]
15/26	 for folding wings [1, 2006.01] 	15/522 • • • with disconnecting means for the appropriate
15/28	 supported on arms movable in horizontal 	pivoting parts [2, 2006.01]
	plane [1, 2006.01]	15/523 • • • using movable rods [2, 2006.01]
15/30	• • with pivoted arms and sliding guides [1, 2006.01]	15/524 • • • • • Actuating mechanisms [2, 2006.01]
15/32	• • with two pairs of pivoted arms [1, 2006.01]	15/526 • • • Safety devices [2, 2006.01]
15/34	• • with wings opening parallel to	15/54 • • for opening both inwards and
	themselves [1, 2006.01]	outwards [1, 2006.01]
15/36	 moving along slide-ways so arranged that one guide 	• with successive different movements [1, 2006.01]
	member of the wing moves in a direction	15/58 • • with both swinging and sliding
	substantially perpendicular to the movement of	movements [1, 2006.01]
	another guide member [1, 2006.01]	- · · · · · · · · · · · · · · · · · · ·

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(s) [4]

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.

Subclass index

CLOSERS, OPENERS, OR CHECKS FOR WINGS	1/00, 3/00, 5/00
ACCESSORIES FOR WINGS	7/00
OPERATING MECHANISMS FOR WINGS	9/00-17/00

1/00	Closers or openers for wings, not otherwise provided
	for in this subclass [1, 2006.01]
1/02	• gravity-actuated [1, 2006.01]
1/04	• • for wings which lift during movement [1, 2006.01]
1/06	 • Mechanisms in the shape of hinges or pivots, operated by the weight of the wing [1, 2006.01]
1/08	• spring-actuated [1, 2006.01]
1/10	 for swinging wings [1, 2006.01]
1/12	 • Mechanisms in the shape of hinges or pivots, operated by springs [1, 2006.01]
1/14	• • • with double-acting springs, e.g. for closing and opening or checking and closing [1, 2006.01]
1/16	• • for sliding wings [4, 2006.01]
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, 2006.01]
3/02	• with pneumatic piston brakes (rotary type

- 3/04 with liquid piston brakes (rotary type E05F 3/14) [1, 2006.01]
- E05F 3/14) **[1, 2006.01]**

- in which a torsion spring rotates a member around 3/06 an axis perpendicular to the axis of the piston **[1, 2006.01]**
- in which a torsion spring rotates a member around 3/08 an axis arranged in the direction of the axis of the piston **[1, 2006.01]**
- 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 [1, 2006.01]
- 3/12 Special devices controlling the circulation of the liquid, e.g. valve arrangement (valves per se F16K) [1, 2006.01]
- 3/14 • with fluid brakes of the rotary type [1, 2006.01]
- 3/16 with friction brakes [1, 2006.01]
- 3/18 with counteracting springs (double-acting springs E05F 1/14) [1, 2006.01]
- 3/20 in hinges [1, 2006.01]
- 3/22 Additional arrangements for closers, e.g. for holding the wing in opened or other position [1, 2006.01]

5/00	Braking devices, e.g. checks; Stops; Buffers (construction of pneumatic or liquid braking devices E05F 3/00; combined with devices for holding wings	11/24	• • • shifting the wing by pivotally-connected members moving in a plane parallel to the pivot axis of the wing [1, 2006.01]
	open E05C 17/00; devices for limiting opening of wings or for holding wings open by a movable member	11/26	• • • • consisting of a lever, e.g. an angle lever, only [1, 2006.01]
	extending between frame and wing E05C 17/04) [1, 4, 2006.01]	11/28	• • • • consisting of a lever, e.g. an angle lever, and one or more additional
5/02	 specially for preventing the slamming of wings [1, 2006.01] 	11/30	links [1, 2006.01] • • • • consisting of links in rhomb
5/04	 hand-operated; operated by centrifugal action [1, 2006.01] 	11/32	form [1, 2006.01] • • with rotary bars guided in the frame (E05F 11/34
5/06	• Buffers (E05F 5/02 takes precedence) [1, 2006.01]		takes precedence) [1, 2006.01]
5/08	 with springs [1, 2006.01] 	11/34	 with screw mechanisms [1, 2006.01]
5/10	 with piston brakes [1, 2006.01] 	11/36	 specially designed for passing through a
5/12	 specially for preventing the closing of a wing before another wing has been closed [1, 2006.01] 	11/38	wall [1, 2006.01]for sliding windows, e.g. vehicle windows, to be
7/00	Accessories for wings not provided for in other		opened or closed by vertical movement [1, 2006.01]
7700	groups of this subclass (specially adapted for furniture	11/40	• • operated by screw mechanism [1, 2006.01]
	A47B 95/00; door-lifters B66F, E04F 21/00; knobs or handles E05B) [1, 2, 2006.01]	11/42	 operated by rack bars and toothed wheels [1, 2006.01]
7/02	 for raising wings before being turned [1, 2006.01] 	11/44	• • operated by one or more lifting arms [1, 2006.01]
7/04	Arrangements affording protection against rattling	11/46	 operated by lazy-tongs mechanism [1, 2006.01]
	(with buffering action E05F 5/00) [1, 2006.01]	11/48	• • operated by cords or chains [1, 2006.01]
7/06	Devices for taking the weight of the wing, arranged Devices for taking the weight of the wing, arranged Devices for taking the weight of the wing, arranged Devices for taking the weight of the wing, arranged Devices for taking the weight of the wing, arranged	11/50	 Crank gear with clutches or retaining brakes, for operating window mechanisms [1, 2006.01]
7/08	away from the hinge axis [1, 2006.01]Means for transmitting movements between vertical	11/52	 combined with means for producing an additional
7700	and horizontal sliding bars, rods, or cables (means for		movement, e.g. a horizontal or a rotary movement [1, 2006.01]
	transmitting movements between vertical and horizontal sliding bars, rods, or cables, for the	11/53	for sliding windows, e.g. vehicle windows, to be
	fastening of wings E05C 9/24) [1, 2006.01]	, 55	opened or closed by horizontal movement [2, 2006.01]
		11/54	• for doors [1, 2006.01]
<u>Operatir</u>	ng mechanisms for wings [2]		
9/00 Means for operating wings by hand rods not guided	13/00	Operating mechanisms for wings, operated by the	
9/00			movement or weight of a person or vehicle (through nower-operated wing-operating mechanisms
9/00	in or on the frame, including those which also operate the fastening (bolts or fastening devices for		power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01]
	in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01]	13/02	power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01]
11/00	in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings,	13/02 13/04	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the
	in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings	13/04	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01]
11/00	in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01]		 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01] Power-operated mechanisms for wings (motor-
	 in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01] for wings in general, e.g. fanlights (E05F 11/36 takes precedence; for windows to be lowered vertically 	13/04	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01] Power-operated mechanisms for wings (motor-operated accessories in locks for completing closing or initiating opening of a wing
11/00 11/02	 in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01] 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) [1, 2006.01] 	13/04 15/00	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01] Power-operated mechanisms for wings (motor-operated accessories in locks for completing closing or initiating opening of a wing E05B 17/00) [1, 2006.01, 2015.01]
11/00 11/02 11/04	 in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01] 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) [1, 2006.01] with cords, chains, or cables [1, 2006.01] 	13/04	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01] Power-operated mechanisms for wings (motor-operated accessories in locks for completing closing or initiating opening of a wing E05B 17/00) [1, 2006.01, 2015.01] Safety devices, e.g. detection of obstructions or end
11/00 11/02	 in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01] 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) [1, 2006.01] with cords, chains, or cables [1, 2006.01] in guide-channels [1, 2006.01] with longitudinally-moving bars guided, e.g. by 	13/04 15/00	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01] Power-operated mechanisms for wings (motoroperated accessories in locks for completing closing or initiating opening of a wing E05B 17/00) [1, 2006.01, 2015.01] Safety devices, e.g. detection of obstructions or end positions [2015.01] Detection by monitoring transmitted force or
11/00 11/02 11/04 11/06	 in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01] 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) [1, 2006.01] with cords, chains, or cables [1, 2006.01] in guide-channels [1, 2006.01] with longitudinally-moving bars guided, e.g. by pivoted links, in or on the frame [1, 2006.01] Mechanisms by which a handle moves the 	13/04 15/00 15/40	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01] Power-operated mechanisms for wings (motoroperated accessories in locks for completing closing or initiating opening of a wing E05B 17/00) [1, 2006.01, 2015.01] Safety devices, e.g. detection of obstructions or end positions [2015.01] Detection by monitoring transmitted force or torque (E05F 15/48 takes precedence); Safety couplings with activation dependent upon torque
11/00 11/02 11/04 11/06 11/08	 in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01] 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) [1, 2006.01] with cords, chains, or cables [1, 2006.01] in guide-channels [1, 2006.01] with longitudinally-moving bars guided, e.g. by pivoted links, in or on the frame [1, 2006.01] Mechanisms by which a handle moves the bar [1, 2006.01] Mechanisms by which the bar shifts the 	13/04 15/00 15/40 15/41	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01] Power-operated mechanisms for wings (motor-operated accessories in locks for completing closing or initiating opening of a wing E05B 17/00) [1, 2006.01, 2015.01] Safety devices, e.g. detection of obstructions or end positions [2015.01] 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 [2015.01] Detection using safety edges [2015.01]
11/00 11/02 11/04 11/06 11/08 11/10	 in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01] 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) [1, 2006.01] with cords, chains, or cables [1, 2006.01] in guide-channels [1, 2006.01] with longitudinally-moving bars guided, e.g. by pivoted links, in or on the frame [1, 2006.01] Mechanisms by which a handle moves the bar [1, 2006.01] Mechanisms by which the bar shifts the wing [1, 2006.01] directly, i.e. without links, shifting the wing, 	13/04 15/00 15/40 15/41 15/42 15/43	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01] Power-operated mechanisms for wings (motor-operated accessories in locks for completing closing or initiating opening of a wing E05B 17/00) [1, 2006.01, 2015.01] Safety devices, e.g. detection of obstructions or end positions [2015.01] 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 [2015.01] Detection using safety edges [2015.01] responsive to disruption of energy beams, e.g. light or sound [2015.01]
11/00 11/02 11/04 11/06 11/08 11/10 11/12	 in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01] 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) [1, 2006.01] with cords, chains, or cables [1, 2006.01] in guide-channels [1, 2006.01] with longitudinally-moving bars guided, e.g. by pivoted links, in or on the frame [1, 2006.01] Mechanisms by which a handle moves the bar [1, 2006.01] Mechanisms by which the bar shifts the wing [1, 2006.01] 	13/04 15/00 15/40 15/41	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01] Power-operated mechanisms for wings (motor-operated accessories in locks for completing closing or initiating opening of a wing E05B 17/00) [1, 2006.01, 2015.01] Safety devices, e.g. detection of obstructions or end positions [2015.01] 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 [2015.01] Detection using safety edges [2015.01] responsive to disruption of energy beams, e.g.
11/00 11/02 11/04 11/06 11/08 11/10 11/12	 in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01] 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) [1, 2006.01] with cords, chains, or cables [1, 2006.01] in guide-channels [1, 2006.01] with longitudinally-moving bars guided, e.g. by pivoted links, in or on the frame [1, 2006.01] Mechanisms by which a handle moves the bar [1, 2006.01] Mechanisms by which the bar shifts the wing [1, 2006.01] directly, i.e. without links, shifting the wing, e.g. by rack-and-gear or pin-and-slot [1, 2006.01] shifting the wing by pivotally-connected members moving in a plane perpendicular to 	13/04 15/00 15/40 15/41 15/42 15/43	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01] Power-operated mechanisms for wings (motor-operated accessories in locks for completing closing or initiating opening of a wing E05B 17/00) [1, 2006.01, 2015.01] Safety devices, e.g. detection of obstructions or end positions [2015.01] 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 [2015.01] Detection using safety edges [2015.01] responsive to disruption of energy beams, e.g. light or sound [2015.01] responsive to changes in electrical conductivity [2015.01] responsive to changes in electrical capacitance [2015.01]
11/00 11/02 11/04 11/06 11/08 11/10 11/12 11/14 11/16	 in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01] 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) [1, 2006.01] with cords, chains, or cables [1, 2006.01] in guide-channels [1, 2006.01] with longitudinally-moving bars guided, e.g. by pivoted links, in or on the frame [1, 2006.01] Mechanisms by which a handle moves the bar [1, 2006.01] Mechanisms by which the bar shifts the wing [1, 2006.01] directly, i.e. without links, shifting the wing, e.g. by rack-and-gear or pin-and-slot [1, 2006.01] shifting the wing by pivotally-connected members moving in a plane perpendicular to the pivot axis of the wing [1, 2006.01] 	13/04 15/00 15/40 15/41 15/42 15/43 15/44	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01] Power-operated mechanisms for wings (motor-operated accessories in locks for completing closing or initiating opening of a wing E05B 17/00) [1, 2006.01, 2015.01] Safety devices, e.g. detection of obstructions or end positions [2015.01] 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 [2015.01] Detection using safety edges [2015.01] responsive to disruption of energy beams, e.g. light or sound [2015.01] responsive to changes in electrical conductivity [2015.01] responsive to changes in electrical
11/00 11/02 11/04 11/06 11/08 11/10 11/12 11/14 11/16 11/18	 in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01] 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) [1, 2006.01] with cords, chains, or cables [1, 2006.01] in guide-channels [1, 2006.01] with longitudinally-moving bars guided, e.g. by pivoted links, in or on the frame [1, 2006.01] Mechanisms by which a handle moves the bar [1, 2006.01] Mechanisms by which the bar shifts the wing [1, 2006.01] directly, i.e. without links, shifting the wing, e.g. by rack-and-gear or pin-and-slot [1, 2006.01] shifting the wing by pivotally-connected members moving in a plane perpendicular to the pivot axis of the wing [1, 2006.01] consisting of a lever, e.g. an angle lever, only [1, 2006.01] 	13/04 15/00 15/40 15/41 15/42 15/43 15/44 15/46	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01] Power-operated mechanisms for wings (motor-operated accessories in locks for completing closing or initiating opening of a wing E05B 17/00) [1, 2006.01, 2015.01] Safety devices, e.g. detection of obstructions or end positions [2015.01] 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 [2015.01] Detection using safety edges [2015.01] responsive to disruption of energy beams, e.g. light or sound [2015.01] responsive to changes in electrical conductivity [2015.01] responsive to changes in electrical capacitance [2015.01] responsive to changes in fluid pressure [2015.01] by transmission of mechanical forces, e.g. by
11/00 11/02 11/04 11/06 11/08 11/10 11/12 11/14 11/16	 in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C) [1, 2006.01] Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00) [1, 2006.01] 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) [1, 2006.01] with cords, chains, or cables [1, 2006.01] in guide-channels [1, 2006.01] with longitudinally-moving bars guided, e.g. by pivoted links, in or on the frame [1, 2006.01] Mechanisms by which a handle moves the bar [1, 2006.01] Mechanisms by which the bar shifts the wing [1, 2006.01] directly, i.e. without links, shifting the wing, e.g. by rack-and-gear or pin-and-slot [1, 2006.01] shifting the wing by pivotally-connected members moving in a plane perpendicular to the pivot axis of the wing [1, 2006.01] consisting of a lever, e.g. an angle lever, 	13/04 15/00 15/40 15/41 15/42 15/43 15/44 15/46 15/47	 power-operated wing-operating mechanisms E05F 15/00) [1, 2006.01] by devices, e.g. lever arms, affected by the movement of the user [1, 2006.01] by platforms lowered by the weight of the user [1, 2006.01] Power-operated mechanisms for wings (motor-operated accessories in locks for completing closing or initiating opening of a wing E05B 17/00) [1, 2006.01, 2015.01] Safety devices, e.g. detection of obstructions or end positions [2015.01] 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 [2015.01] Detection using safety edges [2015.01] responsive to disruption of energy beams, e.g. light or sound [2015.01] responsive to changes in electrical conductivity [2015.01] responsive to changes in electrical capacitance [2015.01] responsive to changes in fluid pressure [2015.01]

15/50 • using fluid-pressure actuators [2015.01]	15/655 • • • specially adapted for vehicle
15/51 • • for folding wings [2015.01]	wings [2015.01]
15/53 • • for swinging wings [2015.01]	15/657 • • • • enabling manual drive, e.g. in case of
15/54 • • • operated by linear actuators acting on a helical	power failure [2015.01]
track coaxial with the swinging axis [2015.01]	15/659 • • • • Control circuits therefor [2015.01]
15/56 • • for horizontally-sliding wings [2015.01] 15/57 • • for vertically-sliding wings [2015.01]	15/662 • • • • Motor units therefor, e.g. geared motors [2015.01]
15/59 • • • for overhead wings [2015.01]	15/665 • • • for vertically-sliding wings [2015.01]
15/60 • using electrical actuators [2015.01]	15/668 • • • for overhead wings [2015.01]
15/603 • using rotary electromotors [2015.01]	15/67 • • • • operated by flexible or rigid rack-and-
15/605 • • • for folding wings [2015.01]	pinion arrangements [2015.01]
15/608 • • • for revolving wings [2015.01]	15/673 • • • • operated by screw-and-nut
15/611 • • • for swinging wings [2015.01]	mechanisms [2015.01]
15/614 • • • operated by meshing gear wheels, one of	15/676 • • • • operated by friction wheels [2015.01]
which being mounted at the wing pivot axis; operated by a motor acting directly on the	15/678 • • • • operated by swinging lever arms [2015.01]
wing pivot axis [2015.01]	15/681 • • • • operated by flexible elongated pulling
15/616 • • • • operated by push-pull mechanisms [2015.01]	elements, e.g. belts [2015.01]
15/619 • • • • using flexible or rigid rack-and-pinion	15/684 • • • • • by chains [2015.01]
arrangements [2015.01]	15/686 • • • • • by cables or ropes [2015.01]
15/622 • • • • using screw-and-nut	15/689 • • • specially adapted for vehicle windows [2015.01]
mechanisms [2015.01]	15/692 • • • • enabling manual drive, e.g. in case of
15/624 • • • • using friction wheels [2015.01]	power failure [2015.01]
15/627 • • • operated by flexible elongated pulling	15/695 • • • • Control circuits therefor [2015.01]
elements, e.g. belts, chains or cables (using	15/697 • • • • Motor units therefor, e.g. geared
flexible elongated push-pull mechanisms E05F 15/619) [2015.01]	motors [2015.01]
15/63 • • • operated by swinging arms [2015.01]	15/70 • with automatic actuation [2015.01]
15/632 • • • for horizontally-sliding wings [2015.01]	15/71 • responsive to temperature changes, rain, wind or
15/635 • • • operated by push-pull mechanisms, e.g.	noise [2015.01]
flexible or rigid rack-and-pinion	15/72 • responsive to emergency conditions, e.g.
arrangements (E05F 15/652 takes	fire [2015.01]
precedence) [2015.01]	15/73 • responsive to movement or presence of persons or
15/638 • • • • allowing or involving a secondary	objects [2015.01]
movement of the wing, e.g. rotational or	15/74 • • • using photoelectric cells [2015.01]
transversal [2015.01]	15/75 • • responsive to the weight or other physical
15/641 • • • • operated by friction wheels [2015.01]	contact of a person or object [2015.01]
15/643 • • • operated by flexible elongated pulling	15/76 • • • responsive to devices carried by persons or
elements, e.g. belts, chains or cables (by flexible elongated push-pull mechanisms	objects, e.g. magnets or reflectors (E05F 15/77 takes precedence) [2015.01]
E05F 15/635) [2015.01]	15/77 • • using wireless control [2015.01]
15/646 • • • • allowing or involving a secondary	15/78 • • • using light beams [2015.01]
movement of the wing, e.g. rotational or transversal [2015.01]	15/79 • • using time control [2015.01]
15/649 • • • • operated by swinging arms [2015.01]	17/00 Special devices for shifting a plurality of wings
15/652 • • • operated by screw-and-nut	operated simultaneously (for simultaneously moving a
mechanisms [2015.01]	plurality of interconnected ventilating lamellae
	E06B 7/086) [1, 2, 2006.01]

E05G SAFES OR STRONG-ROOMS FOR VALUABLES; BANK PROTECTION DEVICES; SAFETY TRANSACTION PARTITIONS (alarm arrangements per se G08B) [2]

Note(s) [2]

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

- "bank" is a building or portion of a building devoted to the safekeeping or exchange of valuables between the "bank" and its customers;
- "bank protection device" is a mechanism in or on a bank for protecting the valuables or repelling attacks by stealth or force.
- 1/00 Safes or strong-rooms for valuables (savings boxes A45C 1/12; floatable safes B63C 7/30; storage containers without attack or fire repellent features B65D; bank buildings in general, e.g. modular construction, floor plan, E04H 1/06; buildings resistant to earthquake or war action E04H 9/00) [1, 2006.01]
- 1/02 Details (safe hinges E05D 7/14) [1, 2006.01]
- 1/024 • Wall or panel structure **[2, 2006.01]**
- 1/026 Closures (protective doors, windows, or like closures against air-raid or other war-like action E06B 5/10; shutters, movable grilles, other safety closures E06B 9/02) [2, 2006.01]

- 1/04 • Closure fasteners (locks E05B) [1, 2006.01]
- 1/06 having provision for multiple compartments **[2, 2006.01]**
- 1/08 • secured individually **[2, 2006.01]**
- 1/10 with alarm, signal, or indicator (burglar, theft, or intruder alarm <u>per se</u> G08B 13/00; fire or explosion alarm <u>per se</u> G08B 17/00) [2, 2006.01]
- with fluent-material releasing, generating, or distributing means, e.g. repellent or fire extinguishing (E05G 1/14 takes precedence; identifying, scaring or incapacitating burglars, thieves, or intruders with smoke, gas, powder, or liquid G08B 15/02) [2, 6, 2006.01]
- with means for marking or destroying the valuables,
 e.g. in case of theft [6, 2006.01]
- 5/00 Bank protection devices (E05G 1/12, E05G 7/00 take precedence; closed-circuit television systems H04N 7/18) [2, 2006.01]
- Trapping or confining mechanisms (thief or burglar incapacitating means in general G08B 15/00) [2, 2006.01]
- **7/00 Safety transaction partitions, e.g. movable payplates** (non-safety paying counters, e.g. for supermarkets, A47F 9/02) [2, 2006.01]