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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Knobs or handles for vehicles	79/00, 85/00
Other details or accessories of locks or latches	9/00-17/00
Keys	19/00
HANDCUFFS	

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)
- 1/02 of solid material
- 1/04 with inner rigid member and outer cover or covers

1/06 • of sheet material

3/00 Fastening handles to lock or latch parts

- Fastening handles to the spindle by pinning or riveting
- Fastening the handle shank to the spindle by screws, springs, or snap bolts
- 3/06 by means arranged in or on the rose

member

fittings of wings

• Lubricating devices

• Templates for marking the position of apertures in

• Illuminating devices on, or for, locks or keys

17/06

17/08

17/10

3/08	Fastening the spindle to the follower	17/12	Devices for removing keys stuck in the lock
3/10	 by a bipartite or cleft spindle in the follower or in the 	17/14	 Closures or guards for keyholes
	handle shank	17/16	 shaped as pins or key bits
E /00	Handles completely let into the confess of the vine	17/18	 shaped as lids or slides
5/00	Handles completely let into the surface of the wing	17/20	 Means independent of the locking mechanism for
5/02 5/04	 able to be turned outwards before operation able to be shifted parallel to the wing after being pulled out 		preventing unauthorised opening, e.g. for securing the bolt in the fastening position (pins or detents
	puned out	17/22	E05B 15/12) [4]
7/00	Handles pivoted about an axis parallel to the wing (E05B 5/00 takes precedence)	17/22	 Means for operating or controlling lock or fastening device accessories, i.e. other than the fastening members, e.g. switches, indicators [4]
9/00	Lock casings or latch-mechanism casings (padlock casings E05B 67/02; for vehicles E05B 79/04,	19/00	Keys; Accessories therefor (making keys, <u>see</u> the relevant places, e.g. B21D 53/42; milling grooves in
0./00	E05B 85/02)		keys B23C 3/35)
9/02	of latch-bolt locks of pulsadar lands	19/02	 Construction of the shank of the key
9/04 9/06	of cylinder locks Factoring together the parts of casings.	19/04	 Construction of the bow of the key; Construction of
	Fastening together the parts of casings Fastening the parings of leads balk leadings and still day.		flat keys
9/08	 Fastening the casings of latch-bolt locks or cylinder locks to the wing 	19/06	 Key bits; Flat key bits
9/10	 Coupling devices for the two halves of double 	19/08	 Special forms of key bits, e.g. double key bits, folding key bits
	cylinder locks	19/10	• Fastening the key bit and bow on the shank of the key
11/00	Devices preventing keys from being removed from the lock	19/12	 Keys with several bits moving relatively to each other when in use
11/02	before the wing is locked	19/14	Double keys
11/04	before the wing is closed	19/16	 Extremely thin keys acting without rotation
11/06	for catching skeleton or incorrect keys	19/18	Keys adjustable before use
11700	for eatening shereton of incorrect nego	19/20	 Skeleton keys; Devices for picking locks; Other
13/00	Devices preventing the key or the handle or both from being used	19/22	devices for similar purposesKeys with devices for indicating whether the last
13/02	 shaped as sectors of escutcheons, arranged in the keyhole 	19/24	operation was locking or unlocking • Key-distinguishing marks
13/04	shaped as fork-like implements grasping and fixing	19/24	Use of special materials for keys
	the key	13/20	- Ose of special materials for keys
13/06 13/08	 shaped as bolt detents arranged in the path of motion of the key bit formed by longitudinal bolt or cross-bar connecting 		th rotary keys moving lamelliform tumblers cular to the key
13/00	the handle with a stationary lock part or fitting		
13/10	formed by a lock arranged in the handle Other details of locker Boots for arrangement by bolts.	21/00	Locks with rotary keys moving lamelliform tumblers perpendicular to the key, in which the tumblers do not follow the movement of the bolt
15/00	Other details of locks; Parts for engagement by bolts of fastening devices (fastening devices for wings other	21/02	 with identical tumblers
15/02	than locks or associated with locks E05C)	21/04	 with stop pins on the tumbler (E05B 21/02 takes precedence)
15/02 15/04	Striking-plates; Keepers; Bolt staples; Escutcheons Spring arrangements in locks.	21/06	Cylinder locks, e.g. protector locks
	Spring arrangements in locksLock wards	=1,00	Symilar rocks, e.g. protector rocks
15/06		23/00	Locks with rotary keys moving lamelliform tumblers
15/08 15/10	 Key guides; Key pins Bolts of locks or night latches		perpendicular to the key, in which the tumblers
	_		follow the movement of the bolt
15/12 15/14	 Pins or detents for locking bolts Tumblers	25/00	Locks with rotary keys moving lamelliform tumblers
15/14	Use of special materials for parts of locks (for	23/00	perpendicular to the key, characterised by the
15/10	handles E05B 1/00)	25/02	tumblerswith tumblers in the cut-out of which the key bit is
17/00	Accessories in connection with locks (locks with	23/02	moved
27,00	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	25/04	 with tumblers in which the stop pin is guided from one locked position to the other in an inclined
	wing E05F 7/06) [4]	25/06	direction with tumblers in which the stop pin is guided from
17/02	Coupling devices for double doors, i.e. two doors one behind the other and hinged on the same side		 with tumblers in which the stop pin is guided from one locked position to the other along a curved path
17/04	Devices for coupling the turning cylinder of a single	25/08	• with tumblers with movable pawls engaging the key
_,, UT	or double cylinder lock with the bolt-operating	25/10	 with tumblers formed to engage one another to determine their unlocked position

Locks of which the tumblers are set by pushing the key in

27/00 Cylinder locks with tumbler pins or balls that are set by pushing the key in

- operated by the edge of the key
- 27/04 • arranged radially in one row
- 27/06 • arranged radially in more than one row
- 27/08 • arranged axially
- operated by other surfaces of the key, e.g. openings receiving projections on the tumblers

29/00 Cylinder locks with plate tumblers that are set by pushing the key in

- operated by the edge of the key
- 29/04 • arranged singly
- 29/06 • arranged in pairs
- operated by other surfaces of the key
- 29/10 operated by a curved groove or slot
- 29/12 • operated by a curved rib
- 29/14 with both axially and radially arranged plate tumblers

31/00 Cylinder locks with both tumbler pins or balls and plate tumblers that are set by pushing the key in

33/00 Cylinder locks with tumblers that are set by pushing the key in, in which the bolt is moved by means other than the key

35/00 Locks for use with special keys or a plurality of keys

- which can be shifted laterally
- 35/04 for pull keys
- 35/06 for screw keys
- operable by a plurality of keys
- 35/10 • with master and pass keys
- 35/12 requiring the use of two keys, e.g. safe-deposit locks
- with keys of which different parts operate separate mechanisms

37/00 Permutation locks (electric permutation locks E05B 49/00; for bicycles E05B 71/02); **Puzzle locks**

- with tumbler discs or rings arranged on a single axis, each disc being adjustable independently of the others
- with tumbler discs on a single axis, all the discs being adjustable by rotating a shiftable knob
- 37/06 • in padlocks
- with tumbler discs on a single axis, all the discs being adjustable by a rotary knob which is not shifted
- 37/10 • in padlocks
- 37/12 with tumbler discs on several axes
- 37/14 • in padlocks
- with two or more push or pull knobs, slides, or the like
- 37/18 • in padlocks
- 37/20 Puzzle locks
- 37/22 • in padlocks

Locks with indicating or timing devices

39/00 Locks giving indication of unauthorised unlocking

- with destructible seal closures or paper closures (seals per se G09F 3/00) [4]
- 39/04 with counting or registering devices

41/00 Locks with visible indication as to whether the lock is locked or unlocked

43/00 Time locks (clocks or clock mechanisms with attached or built-in means operating any device at preselected times or after a predetermined time interval G04C 23/00)

45/00 Alarm locks (alarm devices actuated by tampering with fastenings in general G08B)

- with mechanically-operated bells
- 45/04 with detonating alarm devices
- 45/06 Electric alarm locks
- 45/08 • with contact making inside the lock or in the striking plate
- 45/10 • by introducing the key
- 45/12 • by movement of the bolt
- 45/14 • with contact making outside the lock

Operation or control of locks by non-mechanical means, e.g. from a distance

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 or limiting movement of wings by magnetic or electromagnetic attraction E05C 17/56; key switches H01H 27/00) [2]

- 47/02 Adaptation of locks, latches, or parts thereof, for movement of the bolt by electromagnetic means
- 47/04 • for unlocking only
- 47/06 Controlling mechanically-operated bolts by electromagnetically-operated detents
- • the bolt being withdrawn by a spring which is stressed by closing the wing

49/00 Electric permutation locks; Circuits therefor

- 49/02 with electrical arrangements inside the lock
- with electrical arrangements outside the lock

51/00 Operating or controlling locks or other fastening devices by other non-mechanical means

• by pneumatic or hydraulic means

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

Locks with provision for latching

55/00 Locks in which a sliding latch is used also as a locking bolt

- the bolt being secured by the tumbler
- the bolt being secured by the cross-bar or the turnbuckle and the handle being locked
- the handle being disconnected
- 55/08 • the bolt being secured by transverse bolts
- 55/10 • without securing the bolt
- the bolt being secured by the operation of a hidden parallel member
- the bolt being secured by the operation of a wing handle, or by means in the wing handle or knob
- 55/16 merely by normal use of the handle on one side of the wing

57/00	Locks in which a pivoted latch is used also as locking means	67/00	Padlocks (permutation locks E05B 37/00); Details thereof
59/00	Locks with latches separate from the lock-bolts, or	67/02	• Cases
33700	with a plurality of latches or lock-bolts	67/04 67/06	 • Armoured cases • Shackles; Arrangement of the shackle
59/02	 with arrangements for securing the latch while 	67/08	Padlocks with shackles hinged on the case
	shooting the lock-bolt	67/10	• • with devices for securing the free end of the
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 		shackle
	the like	67/12 67/14	• • with built-in cylinder locks• with devices for securing the hinged end of the
59/06	with a lock-bolt slidable in the latch		shackle
61/00	Other locks with provision for latching	67/16 67/18	• • with built-in cylinder locks• with devices for securing both ends of the shackle
Locks wi	th special structural characteristics or for special use	67/20	• • • with built-in cylinder locks
63/00	Locks with special structural characteristics	67/22	 Padlocks with sliding shackles, with or without rotary or pivotal movement
63/02	without springs	67/24	• with built-in cylinder locks
63/04	• for alternative use on the right-hand or left-hand side	67/26	• • with screw action, with or without the shackle
	of wings	07720	being moved by turning the key
63/06	 with lengthwise-adjustable bolts 	67/28	Padlocks with shackles forming a circle
63/08	Mortise locks	67/30	• • with built-in cylinder locks
63/10	 requiring only two cylindrical holes in the wing 	67/32	Padlocks with pincer-like shackles
63/12	with means carried by the bolt for interlocking with	67/34	• • with built-in cylinder locks
CD /4.4	the keeper	67/36	 Padlocks with closing means other than shackles
63/14	 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 	67/38	Auxiliary or protective devices
	latching E05B 59/00, E05B 61/00; arrangements of simultaneously-actuated bolts or other securing	Locking	devices for clothing, sticks, umbrellas, or cycles
	devices at well-separated positions on the same wing E05C 9/00) [4]	69/00	Devices for locking clothing; Lockable clothing holders or hangers (dress or hat holders in general
63/16	 with the handles on opposite sides moving 		A47G 25/00)
	independently (the latch being secured by the operation of a wing handle E05B 55/14)	69/02	Lockable clothing hooks (coin-controlled locking hooks G07F)
63/18	with arrangements independent of the locking		•
	mechanism for retaining the bolt in the retracted position	71/00	Locks specially adapted for bicycles, other than padlocks (locks integral with cycles B62H 5/00)
63/20 63/22	released automatically when the wing is closedoperated by a pulling or pushing action perpendicular	71/02	with permutation locking devices
63/24	to the front plate (E05B 35/04 takes precedence) • Arrangements in which the fastening members which	73/00	Devices for locking portable objects against unauthorised removal; Locking devices not provided
05/21	engage one another are mounted respectively on the		for in other groups of this subclass
	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]	73/02	• for walking-sticks or umbrellas (stick or umbrella holders in general A47G 25/12)
0= 100			
65/00	Locks for special use	75 /00	Handcuffs
65/02 65/04	 for thin, hollow, or thin-metal wings for wings, one behind the other, hinged on the same side (fastening devices specially adapted for two 	75/00	nanucuns
	wings which lie one behind the other when closed E05C 7/02) [4]	Locks for	r vehicles other than bicycles [2014.01]
65/06	• for swing doors	77/00	Vehicle locks characterised by special functions or
65/08	for sliding wings		purposes (locks specially adapted for bicycles
65/10	for panic or emergency doors		E05B 71/00; locking arrangements for non-fixed vehicle roofs B60J 7/185) [2014.01]
65/44	for furniture or drawers	77/02	• for accident situations [2014.01]
65/46	Special locks for drawers, e.g. for a plurality of	77/02 77/04	 Preventing unwanted lock actuation, e.g.
	drawers [4]		unlatching, at the moment of collision [2014.01]
65/48	 Hasp locks (hasp fastenings other than locks E05C 19/08) 	77/06	• • • by means of inertial forces [2014.01]
65/50	• • for briefcases	77/08	 Arrangements for protection of pedestrians [2014.01]
65/52	Other locks for chests, boxes, trunks, baskets,	77/10	 • Allowing opening in case of deformed bodywork,
22,32	travelling bags, or the like (closures for bags or trunks A45C 13/06, A45C 13/10, A45C 13/16)	///10	e.g. by preventing deformation of lock parts [2014.01]
		77/12	Automatic locking or unlocking at the moment of collision [2014.01]

77/14	 Specially controlled locking actions in case of oper doors or in case of doors moved from an open to a closed position, e.g. lock-out prevention or self- cancelling [2014.01] 	• • 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]
77/16	 Preventing locking with the bolt in the unlatched position, i.e. when the door is open [2014.01] 	81/00 Power-actuated vehicle locks [2014.01]
77/18	 Keyless locking with self-cancellation, e.g. 	• characterised by the type of actuators used [2014.01]
,,,10	resulting in an unlocking action when the door i being closed [2014.01]	81/04 • • Electrical (electrical circuits E05B 81/54) [2014.01]
77/20	• • Override of self-cancellation, e.g. by actuation	
,,,_0	of the handle while the door is being	81/08 • • • using electromagnets or solenoids [2014.01]
	closed [2014.01]	81/10 • • Hydraulic or pneumatic (hydraulic or pneumatic
77/22	 Functions related to actuation of locks from the passenger compartment of the vehicle [2014.01] 	circuits E05B 81/52) [2014.01] 81/12 • characterised by the function or purpose of the
77/24	 preventing use of an inner door handle, sill butte lock knob or the like [2014.01] 	on, powered actuators [2014.01]
77/26	• • specially adapted for child safety [2014.01]	81/14 • • operating on bolt detents, e.g. for unlatching the bolt [2014.01]
77/28	• • • for anti-theft purposes, e.g. double-locking or	81/16 • • operating on locking elements for locking or
77/30	super-locking [2014.01]	unlocking action [2014.01]
	 allowing opening by means of an inner door handle, even if the door is locked [2014.01] 	81/18 • • to effect movement of bolts (E05B 81/20 takes precedence) [2014.01]
77/32	 allowing simultaneous actuation of locking or unlocking elements and a handle, e.g. preventing 	81/20 • • for assisting final closing or for initiating
	interference between an unlocking and an unlatchi	opening [2014.01] 9 81/22 • • • by movement of the striker [2014.01]
	action [2014.01]	9 81/22 • • • by movement of the striker [2014.01] 81/24 • characterised by constructional features of the
77/34	 Protection against weather or dirt, e.g. against wat 	er actuator or the power transmission [2014.01]
,	ingress (closures or guards for keyholes	81/26 • Output elements [2014.01]
	E05B 17/14) [2014.01]	81/28 • • Linearly reciprocating elements [2014.01]
77/36	 Noise prevention; Anti-rattling means [2014.01] 	81/30 • • • Rotary elements [2014.01]
77/38	 Cushion elements, elastic guiding elements or 	81/32 • • Details of the actuator transmission [2014 01]
	holding elements, e.g. for cushioning or dampin	81/34 • • • of geared transmissions [2014.01]
	the impact of the bolt against the striker during	81/36 • • • • Geared sectors, e.g. fan-shaped
77 / 40	closing of the wing [2014.01]	gears [2014.01]
77/40	 Lock elements covered by silencing layers, e.g. coatings [2014.01] 	81/38 • • • • Planetary gears [2014.01]
77/42	 Means for damping the movement of lock parts, e.g. 	04/40
///42	slowing down the return movement of a handle	driven threaded axle [2014.01]
	(E05B 77/38 takes precedence) [2014.01]	81/42 • • • Cams [2014.01]
77/44	Burglar prevention, e.g. protecting against opening	81/44 • • • • in the form of grooves [2014.01]
	by unauthorised tools (E05B 77/28 takes	81/46 • • • Clutches [2014.01]
	precedence) [2014.01]	81/48 • • Actuators being driven in a single
77/46	 Locking several wings simultaneously [2014.01] 	direction [2014.01]
77/48	 by electrical means [2014.01] 	81/50 • Powered actuators with automatic return to the
77/50	 by pneumatic or hydraulic means [2014.01] 	neutral position by non-powered means, e.g. by
77/52	 Locking one wing by shutting another [2014.01] 	springs [2014.01]
77/54	 Automatic securing or unlocking of bolts triggered certain vehicle parameters, e.g. exceeding a speed 	wings simultaneously E05B 77/50) [2014.01]
	threshold (triggered by vehicle collision	81/54 • Electrical circuits (for locking several wings
	E05B 77/12) [2014.01]	simultaneously E05B 77/48) [2014.01]
<i>79/00</i>	Mounting or connecting vehicle locks or parts	81/56 • Control of actuators [2014.01] 81/58 • • involving time control, e.g. for controlling run-
75,00	thereof [2014.01]	time of electric motors [2014.01]
<i>7</i> 9/02	 Mounting of vehicle locks or parts thereof [2014.0] 	
79/04	 Mounting of lock casings to the vehicle, e.g. to twing [2014.01] 	ne modulation [2014.01]
79/06	 • Mounting of handles, e.g. to the wing or to the 	81/62 • • • for opening or closing of a circuit depending on electrical parameters, e.g. increase of motor
	lock [2014.01]	current [2014.01]
79/08	 Mounting of individual lock elements in the lock e.g. levers [2014.01] 	sensors [2014.01]
79/10	 Connections between movable lock parts [2014.01] 	1 ,
79/12	• • using connecting rods [2014.01]	status [2014.01]
79/14	• • • the rods being linked to each other [2014.01]	81/68 • • • • by sensing the position of the
79/16	• • • characterised by means for linking the rods to	detent [2014.01] 81/70 • • • the wing position [2014.01]
70 /10	other lock parts, e.g. to levers [2014.01]	81/72 • • the lock status, i.e. locked or unlocked
79/18 79/20	• • • Rod guides [2014.01]	condition [2014.01]
79/20	• • using flexible connections, e.g. Bowden	Condition [author]

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• • using flexible connections, e.g. Bowden cables [2014.01]

81/74	• • • by sensing the state of the actuator [2014.01]	83/26	 Emergency opening means for persons trapped in the luggage compartment [2014.01]
81/76	• • Detection of handle operation; Detection of a user approaching a handle; Electrical	83/28	 Locks for glove compartments, console boxes, fuel inlet covers or the like [2014.01]
	switching actions performed by	83/30	for glove compartments [2014.01]
	handles [2014.01]	83/32	 for console boxes, e.g. between passenger
81/78	• • • as part of a hands-free locking or unlocking		seats [2014.01]
	operation [2014.01]	83/34	 for fuel inlet covers essentially flush with the
81/80	• • characterised by the power supply; Emergency		vehicle surface [2014.01]
04 (00	power operation [2014.01]	83/36	 Locks for passenger or like doors [2014.01]
81/82	 using batteries other than the vehicle main battery [2014.01] 	83/38	 for pillar-less vehicles, i.e.vehicles where a front and a back door engage each other in the closed
81/84	• • using manually operated generator		position [2014.01]
	means [2014.01]	83/40	 for sliding doors [2014.01]
81/86	• • • using capacitors [2014.01]	83/42	 for large commercial vehicles, e.g. trucks,
81/88	• • • using inductive energy transmission [2014.01]		construction vehicles or vehicles for mass
81/90	 Manual override in case of power failure [2014.01] 		transport [2014.01]
83/00	Vehicle locks specially adapted for particular types of wing or vehicle (locks specially adapted for bicycles	83/44	 for recreational vehicles, e.g. caravans or camper vans [2014.01]
	E05B 71/00; locking arrangements for non-fixed vehicle roofs B60J 7/185; latching means for sideboards or	<i>85/00</i>	Details of vehicle locks not provided for in groups E05B 77/00-E05B 83/00 [2014.01]
	tailgates of open load compartments	85/02	• Lock casings (mounting of lock casings
	B62D 33/037) [2014.01]	05/02	E05B 79/04) [2014.01]
83/02	 Locks for railway freight-cars, freight containers or 	85/04	• Strikers [2014.01]
	the like; Locks for the cargo compartments of	85/06	• Lock cylinder arrangements [2014.01]
	commercial lorries, trucks or vans [2014.01]	85/08	• Sill-buttons, garnish buttons or inner door lock
83/04	• • for sliding wings [2014.01]		knobs [2014.01]
83/06	• • • of railway freight-cars [2014.01]	85/10	• Handles [2014.01]
83/08	• • with elongated bars for actuating the fastening	85/12	• • Inner door handles [2014.01]
02/10	means [2014.01]	85/14	 Handles pivoted about an axis parallel to the
83/10 83/12	• Rotary bars [2014.01]• for back doors of vans (E05B 83/04,		wing [2014.01]
03/12	E05B 83/08 take precedence) [2014.01]	85/16	 a longitudinal grip part being pivoted at one
83/14	 with provisions for sealing [2014.01] 		end about an axis perpendicular to the
83/16	Locks for luggage compartments, car boot lids or car	05 /10	longitudinal axis of the grip part [2014.01]
007 10	bonnets [2014.01]	85/18	• • a longitudinal grip part being pivoted about an axis parallel to the longitudinal axis of the grip
83/18	for car boot lids or rear luggage		part [2014.01]
	compartments [2014.01]	85/20	• Bolts or detents [2014.01]
83/20	• • • with two or more wings, which together close a	85/22	• • Rectilinearly moving bolts [2014.01]
	single compartment [2014.01]	85/24	• • Bolts rotating about an axis [2014.01]
83/22	for luggage compartments at the side of the	85/26	Cooperation between bolts and
	vehicle, e.g. of buses or camper vans [2014.01]		detents [2014.01]
83/24	• • for car bonnets [2014.01]	85/28	• • • in which the member engaging the keeper is 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

FΔS	$\Gamma\Gamma$ NI	NC	DEV	ICES

1110 121 (11 (0 22 (1020	
characterised by the way the bolt is moved	1/00-5/00
specially for holding wings open	
specially adapted for two wings	•
ARRANGEMENT OF FASTENING, SECURING, OR LOCKING DEVICES	

naracte	ches or equivalent wing-fastening devices, rised by special way of movement, e.g. moving orly, pivotally or rotatively	5/04	performing both movements simultaneously, e.g. screwing into a keeper
1/00	Fastening devices with bolts moving rectilinearly (devices released automatically by pull or pressure on	7/00	Fastening devices specially adapted for two wings
1 /00	the wing E05C 19/02)		Note(s)
1/02 1/04	 without latching action with operating handle or equivalent member rigid with the bolt 		In this group, if a fastening device merely secures one wing to another wing which is already closed it is not
1/06	 with operating handle or equivalent member moving otherwise than rigidly with the bolt 	7/02	regarded as specially adapted for two wings. • for wings which lie one behind the other when close
1/08	with latching action	7/04	for wings which abut when closed
1/10	 with operating handle or equivalent member rigid with the latch 	7/06	 a fastening device for one wing being actuated c controlled by closing another wing
1/12	with operating handle or equivalent member moving otherwise than rigidly with the latch	9/00	Arrangement of simultaneously-actuated bolts or other securing devices at well-separated positions of
1/14	 • the handle or member moving essentially towards, or away from, the plane of the wing or frame 		the same wing (essentially involving locking means E05B 63/14; similar constructions for engineering
1/16	• • • the handle or member moving essentially in a plane substantially parallel to the wing	9/02	 closures for pressure vessels, in general F16J 13/08) with one sliding bar for fastening when moved in direction and unfastening when moved in opposite
3/00	Fastening devices with bolts moving pivotally or rotatively (devices released automatically by pull or	0./0.4	direction; with two sliding bars moved in the same direction when fastening or unfastening [4]
	pressure on the wing E05C 19/02)	9/04	 with two sliding bars moved in opposite directions
3/02	 without latching action 	9/06	when fastening or unfastening
3/04	 with operating handle or equivalent member rigid 	9/08	with three or more sliding bars with a return har for actuating the factoring manual
	with the bolt		• with a rotary bar for actuating the fastening means
3/06	with operating handle or equivalent member	9/10	Actuating mechanisms for bars
D / O O	moving otherwise than rigidly with the bolt	9/12	• • with gears and racks
3/08	• • • the handle or member moving essentially	9/14	• • with pins engaging slots
D /40	towards, or away from, the plane of the wing or frame	9/16 9/18	 with crank pins and connecting rods Details of fastening means or of fixed retaining
3/10	 the handle or member moving essentially in a plane substantially parallel to the wing 	0./00	means for the ends of bars
3/12	with latching action (devices in which the securing part is formed or merely carried by a spring and	9/20 9/22	 Coupling means for sliding bars, rods, or cables [4 Guides for sliding bars, rods, or cables (corner gui E05C 9/24) [4]
	moves only by distortion of the spring, e.g. snaps, E05C 19/06)	9/24	 Means for transmitting movements between vertic and horizontal sliding bars, rods, or cables, e.g.
3/14	 with operating handle or equivalent member rigid with the latch 		corner guides (means for transmitting movements between vertical and horizontal sliding bars, rods,
3/16	 with operating handle or equivalent member moving otherwise than rigidly with the latch 		cables, for moving wings into open or closed posit E05F 7/08) [4]
3/22	• • • the bolt being spring-controlled	17/00	Devices for holding wings open; Devices for limiting
3/24	• • • • in the form of a bifurcated member	17700	opening of wings or for holding wings open by a
3/26 3/28	• • • • engaging a stud-like keeper• • • • with simultaneously-operating double		movable member extending between frame and wing; Braking devices, stops or buffers, combined
3/30	bolts • • • in the form of a hook		therewith (combined with hinges E05D 11/00;
3/32	• • • engaging a hooked keeper (E05C 3/34 takes precedence)	4= 400	combined with operating apparatus for wings E05F; other braking devices, stops, buffers E05F 5/00) [4]
3/34	• • • with simultaneously-operating double bolts	17/02 17/04	 by mechanical means (E05C 17/60 takes precedence) [4] with a movable bar or equivalent member
3/36	• • • in the form of a rotary gear	1//04	extending between frame and wing
3/38	• • • with bolts engaging a hooked keeper (E05C 3/24, E05C 3/30, E05C 3/36 take	17/06	• releasable to allow further opening only whe the wing is nearly closed
3/40	precedence) • • • with bolts engaging a stud-like keeper	17/08	• • • with special means for release, e.g. automati release by further opening
	(E05C 3/24, E05C 3/30, E05C 3/36 take precedence)	17/10	 incorporating a special device for securing the wing in the closed position
5/00	Fastening devices with bolts moving otherwise than	17/12	• • consisting of a single rod
			Hook and are an agriculant

IPC (2014.01), Section E

17/14

17/16

17/18

Hook and eye, or equivalent

holes, notches, or pins

elongated slot

pivoted only at one end and having an

pivoted only at one end and having a row of

5/02

only rectilinearly and only pivotally or rotatively

the wing E05C 19/02)

secure the wing

(devices released automatically by pull or pressure on

both moving axially and turning about their axes to

8

17/20	• • • sliding through a guide (E05C 17/18 takes precedence)	17/52	• • • comprising a snap, catch, or the like
17/22	• • • • with braking, clamping or securing means	17/54	Portable devices, e.g. wedges
17/24	in the guide [4] • • • pivoted at one end, and with the other end	17/56	• by magnetic or electromagnetic attraction (operation of locks or fasteners by electric or magnetic means E05B 47/00) [2]
17724	running along a guide member	17/58	operated or controlled from a distance
17/26	• • • with braking, clamping or securing means	17/60	 holding sliding wings open [4]
27,720	at the pivot of the rod [4]	17/62	• • using notches [4]
17/28	• • • • • with braking, clamping or securing means at the connection to the guide member [4]	17/64	• • by friction [4]
17/30	• • of extensible, e.g. telescopic, construction (flexible members E05C 17/36)	19/00	Other devices specially designed for securing wings (movable draft sealings additionally used for bolting
17/32	• • • consisting of two or more pivoted rods	40.400	E06B 7/18) [2]
17/34	• • • with means for holding in more than one position	19/02	Automatic catches, i.e. released by pull or pressure on the wing (E05C 19/06 takes precedence)
17/36	 comprising a flexible member, e.g. chains 	19/04	Ball or roller catches
17/38	 with a curved rail rigid with the frame for engagement with means on the wing, or <u>vice versa</u> 	19/06	 in which the securing part is formed or carried by a spring and moves only by distortion of the spring,
17/40	 Bars or like parts connecting a right wing with a 		e.g. snaps
	left wing which move against each other when	19/08	 Hasps; Hasp fastenings; Spring catches therefor
7/42	being closedconnecting exterior and interior wings	19/10	 Hook fastenings; Fastenings in which a link engages a fixed hook-like member
17/44	 with a device carried on the wing for frictional or 	19/12	 pivotally mounted
	like engagement with a fixed flat surface, e.g.	19/14	• • with toggle action
	retractable feet	19/16	 Devices holding the wing by magnetic or
17/46	 in which the wing or a member fixed thereon is 		electromagnetic attraction
	engaged by a movable fastening member in a fixed position; in which a movable fastening	19/18	 Portable devices specially adapted for securing wing (preventing operation of handles E05B 13/00)
	member mounted on the wing engages a stationary member [4]	21/00	Arrangement or combinations of wing factoring
17/40	• • comprising a sliding securing member	21/00	Arrangement or combinations of wing fastening, securing, or holding devices, not covered by any
17/48 17/50	comprising a stiding securing member comprising a single pivoted securing member		single one of main groups E05C 1/00-E05C 19/00
		21/02	 for holding a wing closed only
E05D	HINGES OR OTHER SUSPENSION DEVICES FOR D	oors, w	
E05D Subclass	F16C 11/00)	OORS, W	
	F16C 11/00) s index	oors, w	
Subclass HINGES	F16C 11/00) s index		INDOWS, OR WINGS (pivotal connections in genera
Subclass HINGES Gener Specia	F16C 11/00) s index eral structure		INDOWS, OR WINGS (pivotal connections in general
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### April 1: 10	F16C 11/00) sindex Geral structure	3/16 3/18 5/00 5/02 5/04 5/06	INDOWS, OR WINGS (pivotal connections in gener
### Company of the co	F16C 11/00) sindex Geral structure	3/16 3/18 5/00 5/02 5/04 5/06 5/08	INDOWS, OR WINGS (pivotal connections in general lands)
ubclass General Special Detail DTHER S 1/00 1/02 1/04 1/06 3/00 3/02 3/04	F16C 11/00) sindex cral structure	3/16 3/18 5/00 5/02 5/04 5/06 5/08 5/10	INDOWS, OR WINGS (pivotal connections in gener 1/00, 3/00 7/00 5/00, 9/00, 11/00 13/00, 15/00 • with seven parallel pins and four arms (E05D 3/0 takes precedence) [7] • with sliding pins or guides (E05D 3/08 takes precedence) [7] Construction of single parts, e.g. the parts for attachment • Parts for attachment, e.g. flaps • Flat flaps • Bent flaps • Of cylindrical shape • Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [2]
inbclass Gener Specia Detail DTHER S 1/00 1/02 1/04 1/06 3/00 3/02 3/04 3/06 3/08	F16C 11/00) sindex Geral structure	3/16 3/18 5/00 5/02 5/04 5/06 5/08 5/10 5/12	INDOWS, OR WINGS (pivotal connections in gener 1/00, 3/00 7/00 5/00, 9/00, 11/00 13/00, 15/00 • with seven parallel pins and four arms (E05D 3/0 takes precedence) [7] • with sliding pins or guides (E05D 3/08 takes precedence) [7] Construction of single parts, e.g. the parts for attachment • Parts for attachment, e.g. flaps • Flat flaps • Bent flaps • Of cylindrical shape • Pins, sockets or sleeves; Removable pins (E05D 15/522 takes precedence) [2] • Securing pins in sockets, movably or not
### Subclass HINGES Gener Specia Detail OTHER S 1/00 1/02 1/04 1/06 3/00 3/02 3/04 3/06 3/08 3/10	F16C 11/00) sindex Geral structure	3/16 3/18 5/00 5/02 5/04 5/06 5/08 5/10 5/12 5/14	INDOWS, OR WINGS (pivotal connections in general labels of cylindrical shape Parts for attachment, e.g. flaps Flat flaps Bent flaps Gostruction of single parts, e.g. the parts for attachment Parts for attachment, e.g. flaps Flat flaps Gostruction of single parts, e.g. the parts for attachment Parts for attachment, e.g. flaps Flat flaps Flat flaps Securing pins in sockets, movably or not Construction of sockets or sleeves
### Subclass HINGES Gener Specia Detail OTHER S 1/00 1/02 1/04 1/06 3/00 3/02 3/04 3/06 3/08	F16C 11/00) sindex Geral structure	3/16 3/18 5/00 5/02 5/04 5/06 5/08 5/10 5/12	INDOWS, OR WINGS (pivotal connections in general lands)

7/00	Hinges or pivots of special construction (used for special suspension arrangements E05D 15/00; so as to be self-closing E05F 1/06, E05F 1/12; with means for	15/02 15/04	 for revolving wings with arms fixed on the wing pivoting about an axis
	raising wings before being turned E05F 7/02)	15/06	outside of the wingfor wings sliding horizontally more or less in their
7/02	 for use on the right-hand as well as on the left-hand side; Convertible right-hand or left-hand hinges 	15/08	own plane
7/04	Hinges adjustable relative to the wing or the frame	15/08	 consisting of two or more independent parts movable each in its own guides
7/06	 to allow tilting of the members 	15/10	movable out of one plane into a second parallel
7/08	 for use in suspensions comprising two spigots placed 		plane
	at opposite edges of the wing, especially at the top	15/12	 consisting of parts connected at their edges
	and the bottom, e.g. trunnions	15/14	• • with movable arms situated in the plane of the
7/081	• the pivot axis of the wing being situated near one		wing
	edge of the wing (braking devices therefor E05D 11/08) [2]	15/16	• for wings sliding vertically more or less in their own
7/082	• the pivot axis of the wing being situated at a	15/10	plane
,,00=	considerable distance from the edges of the	15/18	 consisting of two or more independent parts movable each in its own guides
7/083	wing [2] • • with a fixed pivot axis [2]	15/20	movable out of one plane into a second parallel
7/083	• • with a movable pivot axis [2]	45/00	plane
7/085	• • • with two or more pivot axes, e.g. used at the	15/22	allowing an additional movement
77005	same time [2]	15/24	• consisting of parts connected at their edges
7/086	Braking devices structurally combined with	15/26	• for folding wings
	hinges (braking devices for windows per se	15/28 15/30	 supported on arms movable in horizontal plane with pivoted arms and sliding guides
	E05F 5/00) [2]	15/30	 with two pairs of pivoted arms
7/10	 to allow easy separation of the parts at the hinge axis 	15/34	 with two pairs of proteet arms with wings opening parallel to themselves
	(substitutes for hinges E05D 1/06)	15/36	 moving along slide-ways so arranged that one guide
7/12	to allow easy detachment of the hinge from the wing	13/30	member of the wing moves in a direction
7/1/	or the frame		substantially perpendicular to the movement of
7/14	Hinges for safes		another guide member
9/00	Flaps or sleeves specially designed for making from particular material, e.g. hoop-iron, sheet metal,	15/38	 for upwardly-moving wings, e.g. up-and-over doors
	plastics	15/40	 supported on arms movable in vertical planes
44/00	A 1 10 c	15/42	• • with pivoted arms and horizontally-sliding guides
11/00	Additional features or accessories of hinges	15/44	 with pivoted arms and vertically-sliding guides
11/02	Lubricating arrangements relating to the use of free balls as bearing curfoces.	15/46	 with two pairs of pivoted arms
11/04	 relating to the use of free balls as bearing-surfaces (E05D 7/06 takes precedence) 	15/48	 allowing alternative movements (for vertically- sliding wings E05D 15/22)
11/06	Devices for limiting the opening movement of hinges	15/50	 for opening at either of two opposite edges
11/08	 Friction devices between relatively-movable hinge parts (E05D 7/086 takes precedence) [2] 	15/52	• • for opening about a vertical as well as a horizontal axis
11/10	 Devices for preventing movement between relatively- movable hinge parts 	15/522	• • with disconnecting means for the appropriate pivoting parts [2]
		15/523	• • • using movable rods [2]
13/00	Accessories for sliding or lifting wings, e.g. pulleys,		• • • • Actuating mechanisms [2]
	safety catches (counterbalance devices E05F 1/00, E05F 3/00) [4]		Safety devices [2]
	2001 5/00)[1]	15/54	 for opening both inwards and outwards
15/00	Suspension arrangements for wings (arrangements of	15/56	with successive different movements
	wings not characterised by the construction of the supporting means E06B 3/32)	15/58	• • with both swinging and sliding movements

05F DEVICES FOR MOVING WINGS INTO OPEN OR CLOSED POSITION; CHECKS FOR WINGS; WING FITTING NOT OTHERWISE PROVIDED FOR, CONCERNED WITH THE FUNCTIONING OF THE WING

Note(s)

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

- 1/02 gravity-actuated
- 1/04 • for wings which lift during movement
- 1/06 • Mechanisms in the shape of hinges or pivots, operated by the weight of the wing
- 1/08 spring-actuated
- 1/10 • for swinging wings
- 1/12 • Mechanisms in the shape of hinges or pivots, operated by springs
- 1/14 • with double-acting springs, e.g. for closing and opening or checking and closing
- 1/16 • for sliding wings **[4]**

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)

- with pneumatic piston brakes (rotary type E05F 3/14)
- 3/04 with liquid piston brakes (rotary type E05F 3/14)
- in which a torsion spring rotates a member around an axis perpendicular to the axis of the piston
- in which a torsion spring rotates a member around an axis arranged in the direction of the axis of the piston
- with a spring, other than a torsion spring, and a piston, the axes of which are the same or lie in the same direction
- 3/12 • Special devices controlling the circulation of the liquid, e.g. valve arrangement (valves <u>per se</u> F16K)
- with fluid brakes of the rotary type
- 3/16 with friction brakes
- with counteracting springs (double-acting springs E05F 1/14)
- 3/20 in hinges
- Additional arrangements for closers, e.g. for holding the wing in opened or other position

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 open E05C 17/00; devices for limiting opening of wings or for holding wings open by a movable member extending between frame and wing E05C 17/04) [4]

- 5/02 specially for preventing the slamming of wings
- 5/04 • hand-operated; operated by centrifugal action
- 5/06 Buffers (E05F 5/02 takes precedence)
- 5/08 • with springs
- 5/10 • with piston brakes
- 5/12 specially for preventing the closing of a wing before another wing has been closed

7/00 Accessories for wings not provided for in other groups of this subclass (specially adapted for furniture A47B 95/00; door-lifters B66F, E04F 21/00; knobs or handles E05B) [2]

- 7/02 for raising wings before being turned
- Arrangements affording protection against rattling (with buffering action E05F 5/00)
- 7/06 Devices for taking the weight of the wing, arranged away from the hinge axis

 Means for transmitting movements between vertical and horizontal sliding bars, rods, or cables (means for transmitting movements between vertical and horizontal sliding bars, rods, or cables, for the fastening of wings E05C 9/24)

Operating mechanisms for wings [2]

9/00 Means for operating wings by hand rods not guided in or on the frame, including those which also operate the fastening (bolts or fastening devices for wings E05C)

11/00 Man-operated mechanisms for operating wings, including those which also operate the fastening (connecting mechanisms for a plurality of wings E05F 17/00)

- 11/02 for wings in general, e.g. fanlights (E05F 11/36 takes precedence; for windows to be lowered vertically E05F 11/38; for doors E05F 11/54)
- 11/04 with cords, chains, or cables
- 11/06 • in guide-channels
- 11/08 • with longitudinally-moving bars guided, e.g. by pivoted links, in or on the frame
- 11/10 • Mechanisms by which a handle moves the bar
- 11/12 • Mechanisms by which the bar shifts the wing
- 11/14 • directly, i.e. without links, shifting the wing, e.g. by rack-and-gear or pin-and-slot
- 11/16 • shifting the wing by pivotally-connected members moving in a plane perpendicular to the pivot axis of the wing
- 11/18 • • consisting of a lever, e.g. an angle lever, only
- 11/20 • consisting of a lever, e.g. an angle lever, and only one additional link
- 11/22 • • consisting of a lever, e.g. an angle lever, and two or more additional links in series
- 11/24 • shifting the wing by pivotally-connected members moving in a plane parallel to the pivot axis of the wing
- 11/26 • consisting of a lever, e.g. an angle lever, only
- 11/28 • • consisting of a lever, e.g. an angle lever, and one or more additional links
- 11/30 • consisting of links in rhomb form
- 11/32 with rotary bars guided in the frame (E05F 11/34 takes precedence)
- 11/34 with screw mechanisms
- specially designed for passing through a wall
- for sliding windows, e.g. vehicle windows, to be opened or closed by vertical movement
- 11/40 operated by screw mechanism
- • operated by rack bars and toothed wheels
- 11/44 • operated by one or more lifting arms
- 11/46 • operated by lazy-tongs mechanism
- 11/48 • operated by cords or chains
- 11/50 Crank gear with clutches or retaining brakes, for operating window mechanisms
- 11/52 combined with means for producing an additional movement, e.g. a horizontal or a rotary movement
- for sliding windows, e.g. vehicle windows, to be opened or closed by horizontal movement [2]
- 11/54 for doors

13/00 13/02 13/04 15/00	 Operating mechanisms for wings, operated by the movement or weight of a person or vehicle (through power-operated wing-operating mechanisms E05F 15/00) by devices, e.g. lever arms, affected by the movement of the user by platforms lowered by the weight of the user Power-operated mechanisms for wings	15/10 15/12 15/14 15/16 15/18 15/20	 with rotary electromotors for swinging wings for horizontally-sliding wings for vertically-sliding wings with other electrical means, e.g. solenoids controlled by automatically-acting means, e.g. by photocells, by electric waves, by thermostats, by rain, by fire
15/02 15/04 15/06 15/08	 with pressure medium for swinging wings for horizontally-sliding wings for vertically-sliding wings 	17/00	Special devices for shifting a plurality of wings operated simultaneously (for simultaneously moving a plurality of interconnected ventilating lamellae E06B 7/086) [2]

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

Note(s)

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;

	customers;		
•	"bank protection device" is a mechanism in or on a bank for	protecting the	e 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	1/12	 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]
1/02	to earthquake or war action E04H 9/00) • Details (safe hinges E05D 7/14)	1/14	 with means for marking or destroying the valuables, e.g. in case of theft [6]
1/02 1/024 1/026	 Wall or panel structure [2] 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] Closure fasteners (locks E05B) 	5/00 5/02	 Bank protection devices (E05G 1/12, E05G 7/00 take precedence; closed-circuit television systems H04N 7/18) [2] Trapping or confining mechanisms (thief or burglar incapacitating means in general G08B 15/00) [2]
1/06 1/08 1/10	 having provision for multiple compartments [2] secured individually [2] with alarm, signal, or indicator (burglar, theft, or intruder alarm per se G08B 13/00; fire or explosion alarm per se G08B 17/00) [2] 	7/00	Safety transaction partitions, e.g. movable payplates (non-safety paying counters, e.g. for supermarkets, A47F 9/02) [2]