

# CPC COOPERATIVE PATENT CLASSIFICATION

## E05B LOCKS; ACCESSORIES THEREFOR; HANDCUFFS

### NOTES

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 [E05B 79/00-E05B 85/00](#).
3. {In this subclass, it is desirable to add the indexing code(s) of [E05Y](#).}

### Parts of locks or the like mountable on or in wings

<b>1/00</b>	<b>Knobs or handles for wings</b> ({specially adapted for vehicle doors <a href="#">E05B 85/10</a> }; for furniture <a href="#">A47B 95/02</a> ); <b>Knobs, handles or press buttons for locks or latches on wings</b> ( <a href="#">E05B 5/00</a> , <a href="#">E05B 7/00</a> take precedence)	3/08	. Fastening the spindle to the follower
1/0007	. {Knobs ( <a href="#">E05B 1/0015</a> , <a href="#">E05B 1/0053</a> , <a href="#">E05B 1/0061</a> , <a href="#">E05B 1/0069</a> take precedence)}	3/10	. by a bipartite or cleft spindle in the follower or in the handle shank
1/0015	. {Knobs or handles which do not operate the bolt or lock, e.g. non-movable; Mounting thereof}	<b>5/00</b>	<b>Handles completely let into the surface of the wing</b> ( <a href="#">E05B 85/10</a> takes precedence)}
2001/0023	. . {being movable into a non-operating position, e.g. foldable towards the mounting plane}	5/003	. {Pop-out handles, e.g. sliding outwardly before rotation}
1/003	. {Handles pivoted about an axis perpendicular to the wing ( <a href="#">E05B 3/00</a> , <a href="#">E05B 5/00</a> , <a href="#">E05B 13/106</a> take precedence)}	5/006	. {essentially defining a completely closed surface together with the wing}
1/0038	. {Sliding handles, e.g. push buttons ( <a href="#">E05B 13/105</a> takes precedence)}	<b>7/00</b>	<b>Handles pivoted about an axis parallel to the wing</b> ( <a href="#">E05B 5/00</a> , { <a href="#">E05B 85/14</a> take precedence; {combined with bolt movement <a href="#">E05C 1/00</a> , <a href="#">E05C 3/00</a> })
1/0046	. . {sliding parallel to the plane of the wing}	<b>9/00</b>	<b>Lock casings or latch-mechanism casings; {Fastening locks or fasteners or parts thereof to the wing}</b> (padlock casings <a href="#">E05B 67/02</a> ; for vehicles <a href="#">E05B 79/04</a> , <a href="#">E05B 85/02</a> )
1/0053	. {Handles or handle attachments facilitating operation, e.g. by children or burdened persons ( <a href="#">foot-operation E05B 53/001</a> )}	9/002	. {Faceplates or front plates ( <a href="#">E05C 9/004</a> takes precedence)}
1/0061	. {Knobs or handles with protective cover, buffer or shock absorber}	2009/004	. {Shape of the lock housing}
1/0069	. {Sanitary doorknobs or handles, e.g. comprising a disinfectant}	2009/006	. . {circular}
2001/0076	. {The handle having at least two operating positions, e.g. the bolt can be retracted by moving the handle either upwards or downwards}	2009/008	. . {circle segment}
1/0084	. {Handles or knobs with displays, signs, labels pictures, or the like ( <a href="#">displays on locks E05B 17/226</a> ; <a href="#">displays on keys E05B 19/0088</a> )}	9/02	. {Casings} of latch-bolt {or deadbolt} locks
1/0092	. {Moving otherwise than only rectilinearly or only rotatively ( <a href="#">E05B 5/003</a> takes precedence)}	9/04	. {Casings} of cylinder locks {(details specific for pin or ball tumbler cylinder locks <a href="#">E05B 27/0014</a> ; details specific for plate tumbler cylinder locks <a href="#">E05B 29/00</a> )}
1/04	. with inner rigid member and outer cover or covers	9/041	. . {Double cylinder locks ( <a href="#">E05B 9/045</a> , <a href="#">E05B 9/048</a> take precedence)}
1/06	. of sheet material	9/042	. . . {Stators consisting of multiple parts being assembled together ( <a href="#">E05B 9/045</a> takes precedence)}
<b>3/00</b>	<b>Fastening {knobs or} handles to lock or latch parts</b> ( <a href="#">E05B 79/06</a> takes precedence)}	2009/043	. . . {whereby the casing contains an inner and outer rotor which are simultaneously operated by a long key}
3/003	. {Fastening knobs or handles to hollow cylindrical spindles, e.g. of tubular locks}	9/045	. . {Modular casings for adjusting the length of cylinder locks}
2003/006	. {Fastening knobs or handles to the spindle by means of tilt-plates}	2009/046	. . {Cylinder locks operated by knobs or handles}
3/02	. Fastening {knobs or} handles to the spindle by pinning or riveting ( <a href="#">E05B 3/10</a> takes precedence)}	2009/047	. . {Means for returning cylinder locks to their neutral position}
3/04	. Fastening {the knob or} the handle shank to the spindle by screws, springs or snap bolts ( <a href="#">E05B 3/10</a> takes precedence)}	9/048	. . {Stator reinforcements ( <a href="#">for drill protection E05B 15/1614</a> )}
3/06	. by means arranged in or on the rose {or escutcheon}	9/08	. Fastening {locks or fasteners or parts thereof, e.g.} the casings of latch-bolt locks or cylinder locks to the wing {(on glass wings <a href="#">E05B 65/0025</a> )}
3/065	. . {with spring biasing means for moving the handle over a substantial distance, e.g. to its horizontal position}	9/082	. . {with concealed screws}
		9/084	. . {Fastening of lock cylinders, plugs or cores}
		9/086	. . . {Fastening of rotors, plugs or cores to an outer stator}

9/088	. . . . {Means for preventing loss of tumblers during mounting or removal}	15/008	. . {friction type}
9/10	. Coupling devices for the two halves of double cylinder locks {, e.g. devices for coupling the rotor with the locking cam ( <a href="#">E05B 47/0611</a> takes precedence)}	15/0086	. {Toggle levers ( <a href="#">toggle fasteners E05C 19/14</a> )}
9/105	. . {including disengagement means, e.g. opening from one side being still possible even if the key is inserted from the other side}	15/0093	. {Weight arrangements in locks; gravity activated lock parts ( <a href="#">E05B 65/5292</a> , <a href="#">E05B 77/06</a> take precedence)}
<b>11/00</b>	<b>Devices preventing keys from being removed from the lock; {Devices preventing falling or pushing out of keys (preventing turning of the key <a href="#">E05B 13/00</a>; keyhole guards <a href="#">E05B 17/14</a>; <a href="#">E05B 35/086</a> takes precedence)}</b>	15/02	. Striking-plates; Keepers; Bolt staples; Escutcheons {( <a href="#">keyhole finders E05B 15/08</a> ; escutcheons made of hard materials <a href="#">E05B 15/1614</a> ; finger-plates <a href="#">E06B 7/285</a> )}
11/005	. {by key modifications or attachments, e.g. excentric centre of gravity}	15/0205	. . {Striking-plates, keepers, staples (means for reducing friction <a href="#">E05B 17/007</a> ; electric strikers <a href="#">E05B 47/0046</a> ; staples for padlocks <a href="#">E05B 67/383</a> ; strikers for espagnolettes <a href="#">E05C 9/1808</a> )}
11/02	. before the wing is locked	15/021	. . . {Strikers having multiple positions for the bolt}
11/04	. before the wing is closed	2015/0215	. . . . {Screw-type}
11/06	. for catching skeleton or incorrect keys	15/022	. . . {movable, resilient or yieldable ( <a href="#">adjustable into different discrete positions E05B 15/024</a> ; yieldable striker for emergency opening <a href="#">E05B 65/1026</a> )}
<b>13/00</b>	<b>Devices preventing the key or the handle or both from being used {(covers or guards for keyholes <a href="#">E05B 17/14</a>)}</b>	15/0225	. . . . {Resilient block type, e.g. made from rubber}
13/001	. {Covers preventing access to handles or keys}	2015/023	. . . {Keeper shape}
13/002	. {locking the handle ( <a href="#">E05B 13/10</a> , <a href="#">E05B 47/0657</a> take precedence)}	2015/0235	. . . . {Stud-like}
13/004	. . {by locking the spindle, follower, or the like}	15/024	. . . {adjustable}
13/005	. {Disconnecting the handle ( <a href="#">E05B 13/101</a> , <a href="#">E05B 47/0676</a> , <a href="#">E05B 55/06</a> take precedence)}	15/0245	. . . . {Movable elements held by friction, cooperating teeth, or the like}
13/007	. {Handles which are locked or blocked in the open position}	15/025	. . . . {the striker being movable by a screw/nut}
13/008	. {A single handle being used for actuation of several wings, e.g. simultaneously}	15/0255	. . . . {Deformable element}
13/04	. shaped as fork-like implements grasping and fixing the key {or a handle, e.g. a thumb-turn}	2015/026	. . . . {using eccentrics}
13/10	. formed by a lock arranged in the handle	2015/0265	. . . . {pivoting or tilting}
13/101	. . {for disconnecting the handle ( <a href="#">E05B 13/103</a> , <a href="#">E05B 13/105</a> take precedence)}	2015/027	. . . . {auto-adjustable}
13/103	. . {Combination lock}	2015/0275	. . . . {in two directions}
13/105	. . {the handle being a pushbutton ( <a href="#">E05B 13/103</a> takes precedence)}	2015/028	. . . . {in three directions}
13/106	. . {for handles pivoted about an axis perpendicular to the wing ( <a href="#">E05B 13/101</a> , <a href="#">E05B 13/103</a> , <a href="#">E05B 13/105</a> take precedence)}	2015/0285	. . . {Portable striker}
13/108	. . . {the lock coaxial with spindle}	15/029	. . . {Closures, e.g. preventing dirt or paint from entering into the striker}
<b>15/00</b>	<b>Other details of locks; Parts for engagement by bolts of fastening devices (fastening devices for wings other than locks or associated with locks <a href="#">E05C</a>)</b>	15/0295	. . . {specially adapted for forked or bifurcated bolts ( <a href="#">for vehicles E05B 85/045</a> )}
15/0006	. {Devices for aligning wing and frame; Anti-rattling devices ( <a href="#">for vehicle doors E05B 83/367</a> )}	15/04	. Spring arrangements in locks {( <a href="#">E05B 3/065</a> , <a href="#">E05B 15/101</a> , <a href="#">E05B 15/143</a> , <a href="#">E05C 19/06</a> take precedence)}
15/0013	. {Followers; Bearings therefor}	2015/0403	. . {Wound springs}
15/002	. {Energy storage by movement of wing}	2015/0406	. . . {wound in a cylindrical shape}
15/0026	. {Adaptors cooperating with and acting on keys inserted in an existing lock, e.g. for transformation of a key actuated lock to handle actuation}	2015/041	. . . . {loaded perpendicular to cylinder axis}
15/0033	. {Spindles for handles, e.g. square spindles}	2015/0413	. . . . {loaded by compression}
15/004	. {Lost motion connections}	2015/0417	. . . . {loaded by traction}
15/0046	. {Ratchet mechanisms}	2015/042	. . . {wound in a plane, e.g. spirally}
15/0053	. {means providing a stable, i.e. indexed, position of lock parts}	2015/0424	. . . {of conical shape}
15/006	. . {Spring-biased ball or roller entering a notch}	2015/0427	. . . {curved, e.g. toroidal}
2015/0066	. . {axially operated}	2015/0431	. . {Modifying spring characteristic or tension ( <a href="#">E05B 2015/0441</a> takes precedence)}
15/0073	. . {magnetically operated}	2015/0434	. . . {Automatically}
		2015/0437	. . {Attachments or mountings; Mounting of springs}
		2015/0441	. . . {Tensioning after mounting}
		2015/0444	. . {Springs additionally fulfilling an electric function}
		2015/0448	. . {Units of springs; Two or more springs working together}
		2015/0451	. . {Folded springs}
		2015/0455	. . {Torsion springs of bar type}
		2015/0458	. . {Leaf springs; Non-wound wire springs}
		2015/0462	. . {Ring springs}

- 2015/0465 . . {Cup- or dished-disc springs}
- 2015/0468 . . {made of one piece with a lock part}
- 2015/0472 . . {Made of rubber, plastics or the like}
- 2015/0475 . . . {of block type}
- 2015/0479 . . . {of elastic string type}
- 2015/0482 . . {Heavy springs which cannot be operated by hand}
- 2015/0486 . . {A single spring working on more than one element}
- 2015/0489 . . . {on more than one tumbler}
- 2015/0493 . . {Overcenter springs}
- 2015/0496 . . {Springs actuated by cams or the like}
- 15/06 . Lock wards
- 15/08 . Key guides; Key pins {Keyholes; Keyhole finders ([E05B 17/10](#) takes precedence)}
- 15/10 . Bolts of locks or night latches {(made of hard materials, e.g. to prevent sawing [E05B 15/1614](#); lengthwise adjustable [E05B 63/06](#))}
- 15/101 . . {Spring-retracted bolts}
- 15/102 . . {Bolts having movable elements ([E05B 23/00](#) takes precedence)}
- 15/104 . . . {Movable key-operated elements ("Schluesselangriff")}
- 2015/105 . . . {Two pivoting latch elements with opposite inclined surfaces mounted on one slidable main latch-piece}
- 2015/107 . . . {Roller bolt, i.e. a slidable main latch-piece with a roller-, ball- or barrel-shaped rotating element}
- 15/108 . . {Bolts with multiple head ([E05B 65/0075](#) takes precedence)}
- 15/14 . Tumblers
- 15/143 . . {elastic, e.g. formed by a spring}
- 2015/146 . . {Tumblers with parts movable to each other}
- 15/16 . Use of special materials for parts of locks (for handles [E05B 1/00](#) {for reducing friction [E05B 17/007](#); for keys [E05B 19/26](#)})
- 15/1607 . . {Adhesive}
- 15/1614 . . {of hard materials, to prevent drilling ([E05B 67/04](#), [E05B 67/38](#) take precedence)}
- 15/1621 . . . {Hardened bolts, or bolts with hardened inserts}
- 2015/1628 . . . {Free-rotating protecting covers or discs}
- 15/1635 . . {of plastics materials ([springs E05B 15/04](#))}
- 2015/1642 . . . {for the whole lock}
- 2015/165 . . . {for bolts}
- 2015/1657 . . . {for escutcheons}
- 2015/1664 . . . {for lock housing ([E05B 17/002](#), [E05B 17/0041](#), [E05B 17/0045](#) take precedence)}
- 2015/1671 . . . {for strikers ([E05B 15/022](#) takes precedence)}
- 2015/1678 . . . {for handle bearings}
- 2015/1685 . . {Sheet materials}
- 2015/1692 . . {Wires or straps (for springs [E05B 2015/0403](#))}
- 17/00** **Accessories in connection with locks** (buffers [E05F 5/00](#); means for preventing rattling of wings [E05F 7/04](#); means for taking the weight of the wing [E05F 7/06](#))
- 17/0004 . {Lock assembling or manufacturing (making locksmith's goods of sheet metal [B21D 53/38](#); assembling in general [B23P 21/00](#))}
- 17/0008 . . {Lock parts made by extrusion process}
- 17/0012 . {for lock parts held in place before or during mounting on the wing}
- 17/0016 . {Defrosting, e.g. heating devices}
- 17/002 . {Weather or dirt protection ([E05B 15/029](#), [E05B 17/14](#) take precedence; for vehicle locks [E05B 77/34](#))}
- 17/0025 . {Devices for forcing the wing firmly against its seat or to initiate the opening of the wing ([E05B 15/022](#), [E05B 65/0817](#), [E05B 81/20](#), [E05C 19/14](#) take precedence)}
- 17/0029 . . {motor-operated (for vehicles [E05B 81/20](#))}
- 17/0033 . . {for opening only ([E05B 17/0029](#) takes precedence)}
- 17/0037 . . . {Spring-operated}
- 17/0041 . {Damping means (for vehicles [E05B 77/42](#); time locks with retarders [E05B 43/00](#))}
- 17/0045 . {Silencing devices; Noise reduction (resilient strikers [E05B 15/022](#); for vehicles [E05B 77/36](#))}
- 17/005 . {Preventing accidental lock-out, e.g. by obstruction in the striker (securing the bolt in the retracted position [E05B 63/18](#); stops and buffers preventing the slamming of wings [E05F 5/02](#))}
- 17/0054 . {Fraction or shear lines; Slip-clutches, resilient parts or the like for preventing damage when forced or slammed}
- 17/0058 . . {with non-destructive disengagement ([E05B 17/045](#) takes precedence)}
- 17/0062 . . {with destructive disengagement}
- 17/0066 . . . {Handles with destructible elements}
- 17/007 . {Devices for reducing friction between lock parts ([E05B 17/08](#) takes precedence)}
- 17/0075 . {Insulating, e.g. for limiting heat transfer; Increasing fire-resistance of locks}
- 17/0079 . {Locks with audio features ([E05B 45/00](#) takes precedence)}
- 17/0083 . . {Sound emitting devices, e.g. loudspeakers}
- 17/0087 . . {Sound receiving devices, e.g. microphones}
- 17/0091 . {including protruding or recessed symbols in a surface for tactile indication/information, e.g. Braille symbols}
- 2017/0095 . {Means preventing wrong operation, e.g. preventing damaging contact between extended bolt and striker or bolt and frame (retaining the bolt in the retracted position [E05B 63/18](#))}
- 17/04 . Devices for coupling the turning cylinder of a single or a double cylinder lock with the bolt operating member
- 17/041 . . {Coupling device with a shaft projecting axially rearwardly from the cylinder, e.g. affording a degree of universal motion to compensate for misalignment}
- 17/042 . . {using toothed wheels or geared sectors ([E05C 9/023](#), [E05C 9/041](#) take precedence)}
- 2017/043 . . . {Planetary gear}
- 17/044 . . {Clutches, disengageable couplings}
- 17/045 . . . {for keeping the rotor disconnected from the bolt actuating member, when being turned, e.g. forcefully, without the proper key}
- 17/046 . . . {disengaged manually from inside}
- 17/047 . . {with rotating output elements forming part of cylinder locks, e.g. locking cams of double cylinder locks}
- 17/048 . . {with sliding output elements forming part of cylinder locks, e.g. in the form of pins or cams}

- 17/049 . . . {sliding essentially in the axial direction of the cylinder lock}
- 17/06 . Templates for marking the position of apertures in fittings of wings {or frames; Apparatus for installation of a lockset (drill jigs [B23B 47/28](#); mortised work [B27F 5/12](#); templates for hinges [E05D 11/0009](#))}
- 17/08 . Lubricating devices
- 17/10 . Illuminating devices on or for locks or keys; {Transparent or translucent lock parts; Indicator lights}
- 17/103 . . {on keys ([E05B 17/106](#) takes precedence; attached to key rings [A44B 15/005](#); on key bags or wallets [A45C 11/32](#))}
- 17/106 . . {fluorescent}
- 17/12 . Devices for removing keys stuck in the lock
- 17/14 . Closures or guards for keyholes {(for vehicle ignition or steering lock [B60R 25/023](#))}
- 17/142 . . {with key-operated locks, e.g. padlocks}
- 17/145 . . {with combination lock}
- 17/147 . . {electrically-operated}
- 17/16 . . shaped as pins or key bits {([E05B 17/145](#) takes precedence)}
- 17/18 . . shaped as lids or slides {([E05B 17/142](#), [E05B 17/145](#), [E05B 17/147](#) take precedence)}
- 17/181 . . . {pivoting inwardly}
- 17/183 . . . {pivoting outwardly}
- 17/185 . . . {pivoting about an axis perpendicular to the lock face}
- 17/186 . . . {sliding}
- 17/188 . . . {flexible}
- 17/20 . Means independent of the locking mechanism, {i.e. other than the tumblers or detents} for preventing unauthorised opening, e.g. for securing the bolt in the fastening position {([E05B 63/12](#) takes precedence)}
- 17/2003 . . {Preventing opening by insertion of a tool, e.g. flexible, between door and jamb to withdraw the bolt}
- 17/2007 . . {Securing, deadlocking or "dogging" the bolt in the fastening position ([E05B 15/0046](#), [E05B 15/0086](#), [E05B 67/383](#) take precedence)}
- 17/2011 . . . {using balls or the like cooperating with notches ([E05B 63/121](#) takes precedence)}
- 17/2015 . . . {with wedging action}
- 17/2019 . . . {elastic, i.e. the dog or detent being formed or carried by a spring}
- 17/2023 . . . {Loose pins, screws, or the like; Portable devices}
- 17/2026 . . . {automatic, i.e. actuated by a closed door position sensor}
- 17/203 . . . {not following the movement of the bolt}
- 17/2034 . . . . {moving pivotally or rotatively}
- 17/2038 . . . . {moving rectilinearly}
- 17/2042 . . . . {moving otherwise than only rectilinearly and only pivotally or rotatively}
- 17/2046 . . . . . {performing both movements simultaneously, e.g. screwing}
- 17/2049 . . . {following the movement of the bolt}
- 17/2053 . . . . {moving pivotally or rotatively relating to the bolt}
- 17/2057 . . . . {moving rectilinearly relating to the bolt}
- 17/2061 . . . . {moving otherwise than only rectilinearly and only pivotally or rotatively relating to the bolt}
- 17/2065 . . . . . {performing both movements simultaneously, e.g. screwing}
- 17/2069 . . . {by means of an additional dogging movement of a sliding bolt}
- 17/2073 . . . . {pivotally or rotatively}
- 17/2076 . . . . . {about an axis parallel to its sliding movement}
- 17/208 . . . {by means of an additional dogging movement of a rotary bolt}
- 17/2084 . . {Means to prevent forced opening by attack, tampering or jimmying ([E05B 15/1614](#) takes precedence; for ignition or steering locks [B60R 25/023](#))}
- 17/2088 . . . {Means to prevent disengagement of lock and keeper ([E05B 63/12](#) takes precedence)}
- 17/2092 . . . {Means responsive to tampering or attack providing additional locking (for safes [E05B 65/0082](#))}
- 2017/2096 . . . {Preventing tampering by removal of lock parts which are vital for the function}
- 17/22 . Means for operating or controlling lock or fastening device accessories, i.e. other than the fastening members, e.g. switches, indicators {([E05B 39/00](#) - [E05B 45/00](#) take precedence)}
- 17/223 . . {preventing lock actuation after detection of drug use, e.g. alcohol consumption}
- 17/226 . . {Displays on locks, e.g. LED or LCD screens (on handles [E05B 1/0084](#); on keys [E05B 19/0088](#))}
- 19/00** **Keys; Accessories therefor** (making keys, see the relevant places, e.g. [B21D 53/42](#) {or [B23P 15/005](#)}; milling grooves in keys [B23C 3/35](#)); {([E05B 11/005](#) takes precedence; illuminating devices [E05B 17/103](#); key rings [A44B 15/00](#); key cases [A45C 11/32](#); key holders [A47G 29/10](#))}
- 19/0005 . {Key safes ([E05B 35/086](#) takes precedence)}
- 19/0011 . {Key decoders (general measuring of contours and curvatures [G01B 3/14](#), [G01B 5/20](#), [G01B 7/28](#))}
- 19/0017 . {Key profiles}
- 19/0023 . . {characterized by variation of the contact surface between the key and the tumbler pins or plates}
- 19/0029 . . {characterized by varying cross-sections of different keys within a lock system (cross-sections of single keys [E05B 19/0041](#))}
- 19/0035 . . {characterized by longitudinal bit variations}
- 19/0041 . . {characterized by the cross-section of the key blade in a plane perpendicular to the longitudinal axis of the key}
- 19/0047 . . . {with substantially circular or star-shape cross-section}
- 19/0052 . . . {Rectangular flat keys}
- 19/0058 . . . . {with key bits on at least one wide side surface of the key}
- 19/0064 . . . . . {and with additional key bits on at least one narrow side edge of the key}
- 19/007 . . . {with U- or V-shaped cross-section}
- 19/0076 . . {Keys with a curved longitudinal axis}
- 19/0082 . {Keys or shanks being removably stored in a larger object, e.g. a remote control or a key fob (general constructional details of electronic keys [G07C 9/00944](#))}
- 19/0088 . {Displays on keys, e.g. LED or LCD screens}



19/0094	• {protruding elements on the key preventing unauthorized insertion into the keyhole}	27/0042	• {with additional key identifying function, e.g. with use of additional key operated rotor-blocking elements, not of split pin tumbler type ( <a href="#">E05B 27/0078 takes precedence</a> )}
19/04	• Construction of the bow {or head} of the key; Attaching the bow to the shank	27/0046	• {Axially movable rotor}
19/043	• . {the shank being pivotably mounted on the bow, e.g. for storage}	27/005	• {with changeable combinations}
19/046	• . {the shank being slidingly mounted on the bow, e.g. for storage}	27/0053	• {for use with more than one key, e.g. master-slave key ( <a href="#">master key systems in general E05B 35/10</a> )}
19/14	• Double {or multiple} keys, {e.g. with two or more bows or bits ( <a href="#">see also E05B 35/14</a> )}	27/0057	• {with increased picking resistance}
19/18	• Keys adjustable before use	27/006	• . {whereby a small rotation without the correct key blocks further rotation of the rotor ( <a href="#">E05B 27/0067 takes precedence</a> )}
19/20	• Skeleton keys; Devices for picking locks; Other devices for similar purposes; {Means to open locks not otherwise provided for, e.g. lock pullers ( <a href="#">forcing doors open A62B 3/005</a> )}	27/0064	• . . {whereby the rotor is irreversibly blocked or can only be moved back with an authorized tool or key}
19/205	• . {Lock decoders}	27/0067	• . {whereby a small rotation without the correct key blocks further movement of a tumbler ( <a href="#">E05B 27/0082 takes precedence</a> )}
19/22	• Keys with devices for indicating whether the last operation was locking or unlocking	27/0071	• . {by means preventing opening by using the bump-technique}
19/24	• Key distinguishing marks {( <a href="#">fluorescent E05B 17/106</a> )}	27/0075	• . {by movable rotor elements}
19/26	• Use of special materials for keys {( <a href="#">fluorescent E05B 17/106</a> ; <a href="#">magnets E05B 47/0038</a> )}	27/0078	• {Asymmetrical tumbler pins, e.g. with a key operating on a radial protrusion of a tumbler pin}
<b><u>Locks with rotary keys moving lamelliform tublers perpendicular to the key</u></b>		27/0082	• {Side bar locking}
21/00	<b>Locks with {lamelliform} tubblers {which are not set by the insertion of the key and which are} not following the movement of the bolt {, e.g. Chubb-locks}</b>	27/0085	• {wherein the key can be inserted or withdrawn in different positions or directions ( <a href="#">in general E05B 63/0047</a> )}
21/003	• {comprising tubblers moving in opposite directions, e.g. tumbler sets on opposite sides of the keyhole for operation by a double-bit key}	27/0089	• . {wherein the key can be withdrawn in several angular positions}
21/006	• {the bolt being operated by other means than the key bit, e.g. via a key-operated thrower}	27/0092	• . {wherein the key can be inserted from both sides of the lock}
21/06	• Cylinder locks, e.g. Protector locks	27/0096	• . {reversible keys}
21/063	• . {of the sliding-plate tumbler type}	27/02	• Operated by the edge of the key
21/066	• . {of the rotary-disc tumbler type ( <a href="#">tubblers which are set by inserting the key E05B 29/0013</a> )}	27/08	• . arranged axially
23/00	<b>Locks with {lamelliform} tubblers {which are not set by the insertion of the key and which are} following the movement of the bolt</b>	27/083	• . . {of the split-pin tumbler type}
27/00	<b>Cylinder locks {and other locks} with tumbler pins which are set by pushing the key in {(fastening of cylinders, rotors, plugs or cores <a href="#">E05B 9/084</a>; with magnetic tubblers <a href="#">E05B 47/0044</a>; with electromagnetic control <a href="#">E05B 47/0611</a>)}</b>	27/086	• . . {of the bar-tumbler type, the bars having slots or protrusions in alignment upon opening the lock}
27/0003	• {Details}	2027/10	• {Tubblers operated by other surfaces than the edge of the key}
27/0007	• . {Rotors}	29/00	<b>Cylinder locks {and other locks} with plate tubblers which are set by pushing the key in {(fastening of cylinders, rotors, plugs or cores <a href="#">E05B 9/084</a>; with magnetic tubblers <a href="#">E05B 47/0044</a>; with electromagnetic control <a href="#">E05B 47/0611</a>)}</b>
27/001	• . . {having relatively movable parts, e.g. coaxial- or split-plugs ( <a href="#">for anti-picking purposes E05B 27/0075</a> )}	29/0006	• {Other locks than cylinder locks with plate tubblers}
27/0014	• . {Stators ( <a href="#">cylinder lock casings in general E05B 9/04</a> )}	29/0013	• {with rotating plate tubblers ( <a href="#">E05B 29/0033 takes precedence</a> ; <a href="#">plate tubblers which are not set by inserting the key E05B 21/06</a> )}
27/0017	• . {Tubblers or pins}	29/002	• . {rotating about an axis perpendicular to the key axis}
27/0021	• . . {having movable parts}	29/0026	• {with longitudinally movable cylinder}
2027/0025	• . {having means preventing rotation of the tumbler}	29/0033	• {with floating plate tubblers, i.e. sliding or sliding and rotating in a plane}
27/0028	• {Other locks than cylinder locks with tumbler pins or balls}	29/004	• {with changeable combinations}
27/0032	• {with both axially and radially arranged tumbler pins or balls}	29/0046	• {for use with more than one key, e.g. master-slave key ( <a href="#">master key systems in general E05B 35/10</a> )}
27/0035	• {with indirectly actuated tubblers}	29/0053	• {with increased picking resistance}
27/0039	• {with pins which slide and rotate about their axis}	29/006	• . {by movable rotor elements}
		29/0066	• {Side bar locking}

- 29/0073 . {wherein the key can be inserted or withdrawn in different positions or directions ([in general E05B 63/0047](#))}
  - 29/008 . . {wherein the key can be withdrawn in several angular positions}
  - 29/0086 . . {wherein the key can be inserted from both sides of the lock}
  - 29/0093 . . {reversible keys}
  - 31/00 Cylinder locks with both tumbler pins or balls and plate tumblers**
  - 33/00 Cylinder locks 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; {keys therefor}**
    - 35/001 . {with key identifying function}
    - 35/002 . {for flexible keys}
    - 35/003 . {for keys with movable bits ([keys adjustable before use E05B 19/18](#))}
    - 35/004 . . {pivoting about an axis perpendicular to the main key axis}
    - 35/005 . . {pivoting about an axis parallel to the main key axis}
    - 35/006 . {for rack- or pinion-like keys}
    - 35/007 . {the key being a card, e.g. perforated, or the like ([E05B 47/0045 takes precedence](#))}
    - 35/008 . {for simple tool-like keys}
  - 2035/009 . {Locks where a characteristic part of the user's body is used as a key ([control of electronic locks by characteristics of body parts G07C 9/00563](#))}
  - 35/02 . which can be shifted laterally {or rotated about an axis perpendicular to the key axis}
  - 35/06 . for screw keys
  - 35/08 . operable by a plurality of keys
  - 35/083 . . {with changeable combination ([E05B 35/125 takes precedence; for cylinder locks E05B 27/005, E05B 29/004](#))}
  - 35/086 . . {using a pair of interlocked keys, one of the keys being non-removable; key-storing devices from which only one key can be removed at a time}
  - 35/10 . . with master and pass keys {(for cylinder locks [E05B 27/0053](#))}
  - 35/105 . . . {Locks allowing opening by official authorities, e.g. master key opening of luggage locks by customs officials}
  - 35/12 . . requiring the use of two keys, e.g. safe-deposit locks ([locks with key-operated keyhole cover E05B 17/142](#))
  - 35/125 . . . {with changeable combination}
  - 35/14 . with keys of which different parts operate separate mechanisms ([E05B 35/003 takes precedence](#))}
  - 37/00 Permutation {or combination} locks ({handles with combination locks [E05B 13/103](#); keyhole guards with combination locks [E05B 17/145](#); alarms therefor [E05B 45/061](#)}; electric permutation locks [E05B 49/00](#); {for container closures [B65D 55/145](#); combination switches [H01H 27/10](#)}); Puzzle locks**
    - 37/0003 . {preventing detection of the combination}
    - 37/0006 . . {by avoiding unauthorized viewing of the combination}
    - 37/001 . . {through listening or feeling}
    - 37/0013 . . . {by producing noise}
  - 37/0017 . . . {by producing false clicks; by use of false gates}
  - 37/002 . . {Speed sensors}
  - 37/0024 . . {limited number of tries}
  - 37/0027 . {X-ray protection}
  - 37/0031 . {Locks with both permutation and key actuation ([E05B 17/145 takes precedence](#))}
  - 37/0034 . . {actuated by either}
  - 37/0037 . . {with a key requiring successive operations, e.g. different mechanisms in a predetermined order ([E05B 35/003 takes precedence](#))}
  - 37/0041 . . {Key actuation allowing recovery of a lost/ forgotten combination}
  - 37/0044 . {with telephone-type dial}
  - 37/0048 . {with changeable combination}
  - 37/0051 . . {by moving pins to another hole}
  - 37/0055 . . {by radial disengagement between hub and rim of tumbler discs or rings}
  - 37/0058 . . {by axial disengagement between hub and rim of tumbler discs or rings}
  - 37/0062 . {Operation by feeling, e.g. in darkness using Braille signs}
  - 37/0065 . {Master combination}
  - 37/0068 . {in padlocks ([E05B 37/025, E05B 37/10 and E05B 37/14 take precedence](#))}
  - 37/0072 . {Sign-, picture- or letter-based permutations}
  - 37/0075 . {Automatic scrambling}
  - 37/0079 . . {when unlocking}
  - 37/0082 . . {when locking}
  - 37/0086 . . {when the wing is opened}
  - 37/0089 . . {when the wing is closed}
  - 37/0093 . . {Obligatory manual scrambling}
  - 37/0096 . {with tumbler discs arranged on concentric axes, each axis being operated by a different rotating knob}
  - 37/02 . with tumbler discs or rings arranged on a single axis, each disc being adjustable independently of the others
  - 37/025 . . {in padlocks}
  - 37/04 . with tumbler discs on a single axis, all the discs being adjustable by rotating a shiftable knob
  - 37/08 . with tumbler discs on a single axis, all the discs being adjustable by a rotary knob which is not shifted {for adjusting the discs ([E05B 37/0044 takes precedence](#))}
  - 37/10 . . in padlocks
  - 37/12 . with tumbler discs on several axes
  - 37/14 . . in padlocks
  - 37/16 . with two or more push or pull knobs, slides, or the like ([E05B 65/461 takes precedence](#))}
  - 37/163 . . {the knobs being pushed in a prescribed sequence}
  - 37/166 . . {each knob being pushed a predetermined number of times ([E05B 37/163 takes precedence](#))}
  - 37/20 . Puzzle locks, {e.g. of labyrinth type; Fasteners with hidden or secret actuating mechanisms}
- Locks with indicating or timing devices**
- 39/00 Locks giving indication of {authorised} or unauthorised unlocking ({with key identification means [E05B 35/001](#); alarm locks [E05B 45/00](#))}**
  - 39/002 . {by releasing a liquid, e.g. ill-smelling or dye}

- 39/005 . {Locks with means for tracking the location of locked items, e.g. freight containers}
- 39/007 . {Indication by a tactile impulse to the user, e.g. vibration of a lock-, handle- or key-part}
- 39/02 . with destructible seal closures or paper closures ([seals per se G09F 3/00](#))
- 39/025 . . {with fracturable glass or the like, e.g. for emergency exits}
- 39/04 . with counting or registering devices {(time recording locks [G07C 1/32](#))}
- 41/00 Locks with visible indication as to whether the lock is locked or unlocked {(indicator lights [E05B 17/10](#))}**
- 43/00 Time locks, {e.g. locks with delaying means}** (clocks or clock mechanisms with attached or built-in means operating any device at preselected times or after a predetermined time interval [G04B 23/00](#) {time recording locks [G07C 1/32](#)})
- 2043/002 . {using mechanical clocks}
- 43/005 . {Timer devices controlling electrically operated locks}
- 2043/007 . {using hydraulic or pneumatic retarders}
- 45/00 Alarms locks** (alarm devices actuated by tampering with fastenings, in general [G08B](#); {vehicle fittings actuating a signalling device [B60R 25/10](#); bicycle appliances indicating unauthorised use [B62H 5/20](#)})
- 45/005 . {Chain-locks, cable-locks or padlocks with alarms}
- 45/02 . with mechanically-operated bells
- 45/04 . with detonating alarm devices {(detonating alarm devices in general [G08B 3/14](#), [G08B 13/06](#))}
- 45/06 . Electric alarm locks {([E05B 45/005](#) takes precedence)}
- 45/0605 . . {for preventing of leaving the key (key ejection [E05B 63/003](#))}
- 45/061 . . {for combination locks}
- 2045/0615 . . {triggered by movement of the handle}
- 2045/062 . . {by traction on a chain}
- 2045/0625 . . {by pressure on a safety bar}
- 2045/063 . . {by movement of the wing}
- 2045/0635 . . {by rotation of key or rotor}
- 2045/064 . . {by movement of the lock housing or part thereof}
- 2045/0645 . . {by movement of the keyhole cover}
- 2045/065 . . {Switch or sensor type used in alarm locks}
- 2045/0655 . . . {Photo-diodes}
- 2045/066 . . . {Mercury switches}
- 2045/0665 . . . {Magnetic switches, e.g. reed- or hall-switch}
- 2045/067 . . . {Switches triggered by inertia}
- 2045/0675 . . . {Foam or rubber element with contacts which close a circuit due to deformation of the element}
- 2045/068 . . . {Piezo-electric sensors}
- 2045/0685 . . . {Optical fibres for transmitting the sensor signal}
- 2045/069 . . {Timers therefor}
- 2045/0695 . . {Actuation of a lock triggering an alarm system, e.g. an alarm system of a building}
- 45/08 . . with contact making inside the lock or in the striking plate
- 45/083 . . . {with contact making either in the striking plate or by movement of the bolt relative to the striking plate}
- 45/086 . . . . {by transverse movement}

- 45/10 . . . by introducing the key {or another object}
- 45/12 . . . by movement of the bolt {([E05B 45/083](#) takes precedence)}
- 45/125 . . . . {by transverse movement}

**Operation or control of locks by non-mechanical means, e.g. from a distance** (locking doors simultaneously in passenger vehicles [E05B65/36](#); key switches [H01H 27/00](#))

- 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](#); {[E05B 17/0029](#), [E05B 17/147](#), [E05B 81/00](#), [E05C 19/16](#) take precedence})
- 47/0001 . {with electric actuators; Constructional features thereof (for vehicles [E05B 81/04](#))}
- 47/0002 . . {with electromagnets}
- 47/0003 . . . {having a movable core}
- 47/0004 . . . . {said core being linearly movable}
- 47/0005 . . . . {said core being rotary movable}
- 47/0006 . . . {having a non-movable core; with permanent magnet}
- 2047/0007 . . . {with two or more electromagnets}
- 2047/0008 . . . . {having different functions}
- 47/0009 . . {with thermo-electric actuators, e.g. heated bimetals}
- 47/0011 . . {with piezo-electric actuators (piezo-electric devices [per se H01L 41/00](#))}
- 47/0012 . . {with rotary electromotors (actuators with rotary electromotors [per se H02K 7/06](#), [H02K 23/68](#))}
- 2047/0013 . . . {more than one motor for the same function, e.g. for redundancy or increased power (electric spare devices [E05B 2047/0087](#))}
- 2047/0014 . . {Constructional features of actuators or power transmissions therefor (for vehicles [E05B 81/24](#))}
- 2047/0015 . . . {Output elements of actuators}
- 2047/0016 . . . . {with linearly reciprocating motion}
- 2047/0017 . . . . {with rotary motion}
- 2047/0018 . . . {Details of actuator transmissions}
- 2047/002 . . . . {Geared transmissions}
- 2047/0021 . . . . . {Geared sectors or fan-shaped gears}
- 2047/0022 . . . . . {Planetary gears}
- 2047/0023 . . . . . {Nuts or nut-like elements moving along a driven threaded axle}
- 2047/0024 . . . . . {Cams}
- 2047/0025 . . . . . {in the form of grooves}
- 2047/0026 . . . . {Clutches, couplings or braking arrangements}
- 2047/0027 . . . . . {using centrifugal action}
- 2047/0028 . . . . . {using electromagnetic means}
- 2047/003 . . . . . {of the overload- slip- or friction type}
- 2047/0031 . . . . . {of the elastic type}
- 2047/0032 . . . . . {using flywheel action}
- 2047/0033 . . . . . {using electro-rheological or magneto-rheological substances}
- 2047/0034 . . . . . {using materials with a volume which changes due to electrical voltage or current}
- 2047/0035 . . . {Actuators being driven in a single direction only}
- 2047/0036 . . . {Reversible actuators}

- 2047/0037 . . . {Powered actuators with automatic return to the neutral position by non-powered means, e.g. springs}
- 47/0038 . {using permanent magnets}
- 47/004 . . {the magnets acting directly on the bolt}
- 47/0041 . . {with tumbler pins suspended for a pendulum movement}
- 47/0042 . . {with rotary magnet tumblers}
- 47/0043 . . {Mechanical locks operated by cards having permanent magnets}
- 47/0044 . . {Cylinder locks with magnetic tumblers (E05B 47/0041, E05B 47/0042 take precedence)}
- 47/0045 . . {keys with permanent magnets (E05B 47/0043, E05B 47/0044, E05B 73/0052 take precedence)}
- 47/0046 . {Electric or magnetic means in the striker or on the frame; Operating or controlling the striker plate (E05B 47/0696, E05B 63/248 take precedence)}
- 47/0047 . . {Striker rotating about an axis parallel to the wing edge}
- 2047/0048 . {Circuits, feeding, monitoring}
- 2047/005 . . {Opening, closing of the circuit}
- 2047/0051 . . . {by closing the wing}
- 2047/0052 . . . {opening the circuit by detection of current increase}
- 2047/0053 . . . {by operating the handle}
- 2047/0054 . . . {using microprocessor, printed circuits, or the like}
- 2047/0055 . . . {by blowing}
- 2047/0056 . . . {by sensing the presence of a person, e.g. body heat sensor}
- 2047/0057 . . {Feeding}
- 2047/0058 . . . {by batteries}
- 2047/0059 . . . {by transfer between frame and wing}
- 2047/0061 . . . . {using induction}
- 2047/0062 . . . {by generator}
- 2047/0063 . . . {Energy transfer from key to lock, e.g. for emergency opening}
- 2047/0064 . . . {by solar cells}
- 2047/0065 . . {Saving energy (E05B 2047/0053, E05B 2047/0074, E05B 2047/0077, E05B 2047/0079, E05B 2047/0081 take precedence)}
- 2047/0066 . . . {Reduced holding current}
- 2047/0067 . . {Monitoring}
- 2047/0068 . . . {Door closed}
- 2047/0069 . . . {bolt position}
- 2047/0071 . . {Connecting lockparts by electronic communication means only, e.g. bus systems, time multiplexing}
- 2047/0072 . {Operation}
- 2047/0073 . . {Current to unlock only}
- 2047/0074 . . . {holding means other than current (mechanical, magnetic)}
- 2047/0075 . . . {locked by gravity}
- 2047/0076 . . {Current to lock only, i.e. "fail-safe"}
- 2047/0077 . . . {holding means other than current}
- 2047/0078 . . . {unlocked by gravity}
- 2047/0079 . . {Bi-stable electromagnet(s), different pulse to lock or unlock}
- 2047/0081 . . {Same pulse to lock or unlock}
- 2047/0082 . {Induction for charging or current transformation}
- 2047/0083 . {Devices of electrically driving keys, e.g. to facilitate opening}
- 2047/0084 . {Key or electric means; Emergency release}
- 2047/0085 . . {Key and electromagnet}
- 2047/0086 . . {Emergency release, e.g. key or electromagnet (E05B 63/0073 takes precedence)}
- 2047/0087 . . . {Electric spare devices, e.g. auxiliary batteries or capacitors for back up}
- 2047/0088 . . {Key-operated switch}
- 2047/0089 . {with electronic learning functions (electronic locks G07C 9/00)}
- 2047/0091 . {Retrofittable electric locks, e.g. an electric module can be attached to an existing manual lock (electrically driven keys E05B 2047/0083)}
- 2047/0092 . {including means for preventing manipulation by an external magnetic field, e.g. preventing opening by using a strong magnet}
- 2047/0093 . {including means for preventing manipulation by external shocks, blows or the like}
- 2047/0094 . {Mechanical aspects of remotely controlled locks (electronic locks G07C 9/00)}
- 2047/0095 . . {Mechanical aspects of locks controlled by telephone signals, e.g. by mobile phones (electronic locks G07C 9/00)}
- 2047/0096 . . {Mechanical aspects of locks whose actuation is dependent on geographical location, e.g. by means of a GPS system (electronic locks G07C 9/00)}
- 2047/0097 . {including means for monitoring voltage, e.g. for indicating low battery state}
- 2047/0098 . {Arrangements for grounding electrical locks or elements thereof, e.g. for avoiding shocks or failure due to static electricity}
- 47/02 . {Movement of the bolt by electromagnetic means}; Adaptation of locks, latches, or parts thereof, for movement of the bolt by electromagnetic means (by means in the striker E05B 63/248)}
- 47/023 . . {the bolt moving pivotally or rotatively}
- 47/026 . . {the bolt moving rectilinearly}
- 47/06 . Controlling mechanically-operated bolts by electromagnetically-operated detents
- 47/0603 . . {the detent moving rectilinearly}
- 47/0607 . . {the detent moving pivotally or rotatively}
- 47/0611 . . {Cylinder locks with electromagnetic control}
- 47/0615 . . . {operated by handles, e.g. by knobs}
- 47/0619 . . . {by blocking the rotor}
- 47/0623 . . . . {axially, i.e. with an axially engaging blocking element}
- 47/0626 . . . . {radially}
- 47/063 . . . . {with a rectilinearly moveable blocking element}
- 47/0634 . . . . {with a pivotally moveable blocking element}
- 47/0638 . . . {by disconnecting the rotor}
- 47/0642 . . . . {axially, i.e. with an axially disengaging coupling element}
- 47/0646 . . . . {radially}
- 47/0649 . . . . {with a rectilinearly moveable coupling element}
- 47/0653 . . . . {with a pivotally moveable coupling element}
- 47/0657 . . {by locking the handle, spindle, follower or the like}
- 47/0661 . . . {axially, i.e. with an axially engaging blocking element}
- 47/0665 . . . {radially}



47/0669	. . . . {with a pivotally moveable blocking element}	<b>61/00</b>	<b>Other locks with provision for latching</b>
47/0673	. . . . {with a rectilinearly moveable blocking element}	<b><u>Locks {or fastenings} with special structural characteristics or for special use</u></b>	
47/0676	. . {by disconnecting the handle}	<b>63/00</b>	<b>Locks {or fastenings} with special structural characteristics</b>
47/068	. . . {axially, i.e. with an axially disengaging coupling element}	63/0004	. {Additional locks added to existing lock arrangements}
47/0684	. . . {radially}	63/0008	. . {Mounted on the hinged side of the wing}
47/0688	. . . . {with a pivotally moveable coupling element}	63/0013	. {Locks with rotary bolt without provision for latching}
47/0692	. . . . {with a rectilinearly moveable coupling element}	63/0017	. {Locks with sliding bolt without provision for latching}
47/0696	. . {locking the bolt by an electromagnet in the striker}	63/0021	. . {the bolt being shot over an increased length by a single turning operation of the key}
<b>49/00</b>	<b>Electric permutation locks; Circuits therefor; {Mechanical aspects of electronic locks; Mechanical keys therefor (arrangements for sensing or reading record carriers G06K 7/00, G06K 9/00; mechanisms including electronic locks actuated by nonmechanical keys such as passive and active electrical keys and other data carriers G07C 9/00, G07F 7/00; electronic switching H03K 17/00)}</b>	2063/0026	. {Elongated, e.g. stud-like, striker entering into an opening in which movable detent means engage the elongated striker (stud-like keepers in general E05B 2015/0235)}
49/002	. {Keys with mechanical characteristics, e.g. notches, perforations, opaque marks}	63/003	. {with key ejection means}
49/004	. . {actuating mechanical switches}	63/0034	. {Locks for use instead of cylinder locks, e.g. locks with cylinder lock profile and a low security operating mechanism}
49/006	. . {actuating opto-electronic devices}	2063/0039	. {Ground mounted locks or lock elements}
49/008	. . . {by alignment of movable perforated parts, e.g. perforated tumblers}	63/0043	. {Dummy or simulated locks; Cover elements without lock function}
<b>51/00</b>	<b>Operating or controlling locks or other fastening devices by other non-mechanical means</b>	63/0047	. {Locks having a key withdrawable in different positions (cylinder locks E05B 27/0085, E05B 29/0073)}
51/005	. {by a bimetallic or memory-shape element (heated by electricity E05B 47/0009; for panic door actuation E05B 65/104)}	63/0052	. {Locks mounted on the "frame" cooperating with means on the "wing" (E05B 47/0046, E05B 65/0829, E05B 65/0847, E05B 65/0882 take precedence)}
51/02	. by pneumatic or hydraulic means {(E05B 17/0029 takes precedence)}	63/0056	. {Locks with adjustable or exchangeable lock parts (adjustable strikers E05B 15/024; adjustable to different keys E05B 35/083; adjustable bolt or backset E05B 63/06; adjustable coupling means for bars, rods, cables E05C 9/20)}
51/023	. . {actuated in response to external pressure, blast or explosion (E05B 65/102 takes precedence)}	63/006	. . {for different door thicknesses (E05B 9/045 takes precedence; for fastening handles to lock or latch parts E05B 3/00)}
2051/026	. . {with manually generated fluid pressure}	63/0065	. {Operating modes; Transformable to different operating modes}
<b>53/00</b>	<b>Operation or control of locks by mechanical transmissions, e.g. from a distance</b>	63/0069	. . {Override systems, e.g. allowing opening from inside without the key, even when locked from outside (E05B 65/1086, E05B 9/105 take precedence; by movable striker E05B 63/246)}
53/001	. {Foot-operation}	63/0073	. . . {by withdrawal of the entire lock unit}
53/003	. {flexible}	63/0078	. . {allowing opening with key from outside, even with key inserted from inside (E05B 9/10 takes precedence)}
53/005	. . {Bowden}	2063/0082	. . {Locking modes}
53/006	. {of ball-train type}	2063/0086	. . . {Handles used only for locking, while unlocking is achieved by other means}
53/008	. {by planetary gears}	2063/0091	. . . {Lock actuation dependent on temperature}
<b><u>Locks with provision for latching (for passenger vehicle doors E05B65/20)</u></b>		2063/0095	. . . {Locking devices actuated or controlled by seismic activity, e.g. earthquakes}
<b>55/00</b>	<b>Locks in which a sliding latch is used also as a locking bolt</b>	63/02	. without springs
55/005	. {Cylindrical or tubular locks}	63/04	. for alternative use on the right-hand or left-hand side of wings
55/06	. the handle being disconnected {(E05B 13/101, E05B 47/0676 take precedence)}	63/042	. . {constructed symmetrically}
55/12	. the bolt being secured by the operation of a hidden parallel member; {Automatic latch bolt deadlocking mechanisms, e.g. using a trigger or a feeler}	63/044	. . {with reversible bolt or bolt head}
<b>57/00</b>	<b>Locks in which a pivoted latch is used also as locking means</b>	63/046	. . {with double-bevelled latch or the like}
<b>59/00</b>	<b>Locks with latches separate from the lock-bolts or with a plurality of latches or lock-bolts</b>	63/048	. . {with bolt heads at both sides of the lock}

63/06	• with lengthwise-adjustable bolts; {with adjustable backset, i.e. distance from door edge}	63/248	• • {the striker being movable for latching, and pushed back by a member on the wing for unlatching, or <i>vice versa</i> }
63/08	• Mortise locks {(mortised work <a href="#">B27F 5/12</a> )}	65/00	<b>Locks {or fastenings} for special use</b> {(for dishwashers <a href="#">A47L 15/4259</a> ; hatch fastenings <a href="#">B63B 19/24</a> ; for container closures <a href="#">B65D 55/02</a> ; for elevator doors <a href="#">B66B 13/16</a> ; for lids or covers of refuse receptacles <a href="#">B65F 1/1615</a> ; for laundry washing machines <a href="#">D06F 37/42</a> , <a href="#">D06F 39/14</a> ; for two wings <a href="#">E05C 7/00</a> ; safety devices <a href="#">F16P 3/08</a> ; for furnaces <a href="#">F24C 15/022</a> ; coin freed locks <a href="#">G07F 17/12</a> , <a href="#">G07F 17/14</a> ; switches operated by key or combination <a href="#">H01H 27/00</a> )}
63/10	• • requiring only two cylindrical holes in the wing	65/0003	• {for locking a plurality of wings, e.g. simultaneously ( <a href="#">E05B 65/0017</a> , <a href="#">E05B 77/46</a> , <a href="#">E05B 65/462</a> , <a href="#">E05C 7/00</a> take precedence)}
63/12	• with means carried by the bolt for interlocking with the keeper	65/0007	• {for gates (for wire gates <a href="#">E06B 11/021</a> )}
63/121	• • {using balls or the like cooperating with notches}	65/001	• {for gas- or watertight wings}
63/122	• • {with transverse, i.e. vertically movable bolt or dropbolt ( <a href="#">E05B 63/126</a> takes precedence)}	65/0014	• {to prevent opening by children ( <a href="#">E05B 13/00</a> takes precedence; child-proof container closures <a href="#">B65D 50/00</a> )}
63/123	• • {with circular bolts}	65/0017	• {Jail locks}
63/125	• • {with a sliding bolt rotating about its axis, i.e. of bayonet type}	65/0021	• {for overhead or roll-up doors, e.g. garage doors}
63/126	• • {the bolt having an additional sliding bolt or movement ( <a href="#">E05B 63/121</a> takes precedence)}	65/0025	• {for glass wings}
63/127	• • {the bolt having an additional rotating bolt or movement}	65/0028	• {for narrow-stile wings}
63/128	• • {with additional bolt in the striker (electric <a href="#">E05B 47/0696</a> )}	65/0032	• {for hotel rooms (electronic <a href="#">G07C 9/00904</a> )}
63/14	• Arrangement of several locks or locks with several bolts, e.g. arranged one behind the other (locks for keys with several bits <a href="#">E05B 35/14</a> ; with provision for latching <a href="#">E05B 59/00</a> , <a href="#">E05B 61/00</a> ; arrangements of simultaneously-actuated bolts or other securing devices at well-separated positions on the same wing <a href="#">E05C 9/00</a> ; {takes precedence; <a href="#">E05B 15/108</a> , <a href="#">E05B 65/0858</a> , <a href="#">E05B 85/245</a> , <a href="#">E05C 3/28</a> , <a href="#">E05C 3/34</a> take precedence})	65/0035	• {for privacy rooms, e.g. bathrooms}
63/143	• • {Arrangement of several locks, e.g. in parallel or series, on one or more wings}	2065/0039	• • {with emergency release}
63/146	• • {locks with two or more bolts, each bolt itself being a tumbler}	65/0042	• {For refrigerators or cold rooms ( <a href="#">E05B 17/0075</a> takes precedence; magnetic <a href="#">E05C 19/16</a> )}
63/16	• with the handles on opposite sides moving independently	65/0046	• • {with a bifurcated bolt}
63/18	• with arrangements independent of the locking mechanism for retaining the bolt {or latch} in the retracted position	65/005	• • {with sliding bolt}
63/185	• • {Preventing actuation of a bolt when the wing is open ( <a href="#">E05B 63/20</a> takes precedence, similar safety devices <a href="#">E05D 15/526</a> )}	65/0053	• • {with safety release from inside (by releasing the striker <a href="#">E05B 63/246</a> ; similar means for safe doors <a href="#">E05B 65/0078</a> )}
63/20	• • released automatically when the wing is closed {(for panic door locks of the vertical rod type <a href="#">E05B 65/1013</a> )}	65/0057	• {for caskets, coffins or burial vaults (coffins in general <a href="#">A61G 17/02</a> )}
63/202	• • • {a latch bolt being initially retained in an intermediate position and subsequently projected to its full extent when the wing is closed}	65/006	• {for covers or panels (for manholes <a href="#">E02D 29/1427</a> ; for holes enabling access to installations in buildings <a href="#">E04F 19/08</a> ; for pressure vessels <a href="#">F16J 13/00</a> )}
63/205	• • • {by a trigger at the hinged edge of the wing}	65/0064	• • {for openings in masts}
2063/207	• • • {Automatic deadlocking}	65/0067	• • {for portable computers, e.g. for locking the screen panel to the keyboard panel}
63/22	• operated by a pulling or pushing action perpendicular to the front plate, {i.e. by pulling or pushing the wing itself (without deadlocking <a href="#">E05C 19/02</a> )}	65/0071	• {for revolving doors}
63/24	• 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 <a href="#">E05B 65/48</a> ; hasp fastenings <a href="#">E05C 19/08</a> { <a href="#">E05B 47/0046</a> , <a href="#">E05B 47/0696</a> , <a href="#">E05B 63/128</a> , <a href="#">E05B 65/48</a> , <a href="#">E05C 19/08</a> take precedence})	65/0075	• {for safes, strongrooms, vaults, fire-resisting cabinets or the like (safes, closures and fastenings therefor <a href="#">E05G</a> )}
63/242	• • {Auxiliary bolts on the frame, actuated by bolts on the wing, or <i>vice versa</i> }	65/0078	• • {Safety means for persons trapped within the safe, e.g. release from inside, venting means (by releasing the striker <a href="#">E05B 63/246</a> ; similar means for refrigerator or cold-room doors <a href="#">E05B 65/0053</a> )}
63/244	• • {the striker being movable for latching, the bolt for unlatching, or <i>vice versa</i> }	65/0082	• • {with additional locking responsive to attack, e.g. to heat, explosion (in general <a href="#">E05B 17/2092</a> )}
63/246	• • • {Emergency release from inside by releasing the striker}	65/0085	• {for folding wings, e.g. bi-fold wings}
		65/0089	• {for utility meters or the like}
		65/0092	• {for wardrobe trunks}
		2065/0096	• {Locks for sport stadiums}
		65/02	• for thin, hollow, or thin-metal wings {, e.g. lockers}
		65/025	• • {for lockers}
		65/06	• for swing doors {or windows, i.e. opening inwards or outwards}

- 65/08 . . . {for sliding wings [{\(for vehicles E05B 83/04, E05B 83/40; holding sliding wings open E05C 17/60\)}](#)}
- 2065/0805 . . . {with a handle operating in both directions}
- 65/0811 . . . {the bolts pivoting about an axis perpendicular to the wings}
- 65/0817 . . . {with additional movement, e.g. toggle, overcenter, excentric [\(toggle fasteners in general E05C 19/14; similar fasteners for building slabs E04B 1/6183\)](#)}
- 65/0823 . . . {cooperating with the slide guide, e.g. the rail}
- 65/0829 . . . {mounted on the slide guide, e.g. the rail}
- 65/0835 . . . {the bolts pivoting about an axis parallel to the wings}
- 65/0841 . . . {and parallel to the sliding direction of the wings}
- 65/0847 . . . {mounted on the slide guide, e.g. the rail [\(E05B 65/0841 takes precedence\)](#)}
- 65/0852 . . . {with a bolt under compression force}
- 65/0858 . . . {comprising simultaneously pivoting double hook-like locking members}
- 65/0864 . . . {the bolts sliding perpendicular to the wings}
- 65/087 . . . {the bolts sliding parallel to the wings}
- 65/0876 . . . {cooperating with the slide guide, e.g. the rail}
- 65/0882 . . . {mounted on the slide guide, e.g. the rail}
- 65/0888 . . . {Locking bars}
- 65/0894 . . . {Portable or removable locks [\(E05B 65/0864, E05B 65/0888 take precedence\)](#)}
- 65/10 . . . for panic or emergency doors
- 65/1006 . . . {of the vertical rod type}
- 65/1013 . . . {Trigger means for holding the bolt in the retracted position and releasing the bolt when the door is closed}
- 65/102 . . . {opening under pressure on the surface of the door itself [\(E05C 19/02 takes precedence\)](#)}
- 65/1026 . . . {by a yieldable or breakable bolt or striker}
- 65/1033 . . . {emergency release of windows, window grills, escape hatches or the like}
- 65/104 . . . {actuated in response to heat, e.g. with fusible element, bimetal, memory shape or swelling material}
- 65/1046 . . . {Panic bars}
- 65/1053 . . . {sliding towards and away from the door}
- 65/106 . . . {pivoting}
- 65/1066 . . . . {the pivot axis being substantially parallel to the longitudinal axis of the bar}
- 65/1073 . . . . {the pivot axis being substantially perpendicular to the longitudinal axis of the bar}
- 65/108 . . . {Electronically controlled emergency exits}
- 65/1086 . . . {Locks with panic function, e.g. allowing opening from the inside without a key even when locked from the outside}
- 65/1093 . . . {Dogging means for holding the actuation means, e.g. the actuating handle}
- 65/44 . . . for furniture or drawers
- 65/46 . . . Special locks for drawers, e.g. for a plurality of drawers [{\(for electronic unit cases H05K 7/1401\)}](#)
- 65/461 . . . . {for cash drawers}
- 65/462 . . . . {for a plurality of drawers}
- 65/463 . . . . {Drawer interlock or anti-tilt mechanisms, i.e. when one drawer is open, a number, e.g. all, of the remaining drawers are locked}
- 65/464 . . . . {comprising a plurality of lock element aligned in end-to-end abutting relation}
- 65/465 . . . . {with rotary locking bars}
- 65/466 . . . . {with tensionable flexible elements, e.g. cables, bands, chains or ropes}
- 65/467 . . . . {Locking bars secured in front of the drawers}
- 65/468 . . . . {using rotary lock bars [\(E05B 65/465, E05B 65/467 take precedence\)](#)}
- 2065/469 . . . {for drawers which can be opened from both sides}
- 65/48 . . . Hasp locks [\(hasp fastenings other than locks E05C 19/08\)](#)
- 65/50 . . . for briefcases {or the like}
- 65/52 . . . Other locks for chests, boxes, trunks, baskets, travelling bags, or the like [\(closures for bags or trunks A45C 13/06, A45C 13/10, A45C 13/16; {hasp locks E05B 65/50; permutation locks E05B 37/00; toggles E05C 19/14; locking slide fasteners A44B 19/301}\)](#)
- 65/5207 . . . {characterised by bolt movement}
- 65/5215 . . . . {sliding}
- 65/5223 . . . . {perpendicular to the surface on which the lock is mounted}
- 65/523 . . . . {parallel to the surface on which the lock is mounted}
- 65/5238 . . . . . {parallel to the wing edge}
- 65/5246 . . . . {rotating}
- 65/5253 . . . . {about an axis perpendicular to the surface on which the lock is mounted}
- 65/5261 . . . . . {with simultaneously operating double bolts}
- 65/5269 . . . . . {about an axis parallel to the surface on which the lock is mounted}
- 65/5276 . . . . . {parallel to the wing edge}
- 65/5284 . . . {in which a movable latch is passed through a staple loop [\(similar fasteners for buckles A44B 11/00\)](#)}
- 65/5292 . . . {Gravity - or orientation sensitive mechanisms, e.g. to prevent opening when wrongside-up}
- 67/00 Padlocks (permutation locks E05B 37/00; {steering wheel padlocks B60R 25/022}); Details thereof**
- 67/003 . . . {Chain, wire or cable locks [\(alarms therefor E05B 45/005; E05B 69/006 takes precedence\)](#)}
- 67/006 . . . {with retraction of the cable for storage [\(E05B 73/0029 takes precedence; for devices mounted to a fixed surface or a portable object E05B 73/0011\)](#)}
- 67/02 . . . Cases
- 2067/025 . . . {Bumpers}
- 67/04 . . . Armoured cases [{\(parts of the casing protecting the shackle E05B 67/38\)}](#)
- 67/06 . . . Shackles; Arrangement of the shackle
- 67/063 . . . {Padlocks with removable shackles}
- 2067/066 . . . {Shackle extensions}
- 67/08 . . . Padlocks with shackles hinged on the case
- 67/10 . . . . with devices for securing the free end of the shackle
- 67/14 . . . . with devices for securing the hinged end of the shackle
- 67/18 . . . . with devices for securing both ends of the shackle

67/22	. . Padlocks with sliding shackles, with or without rotary or pivotal movement	73/0052	. . . {of the magnetic type}
67/24	. . . with built- in cylinder locks	73/0058	. . . . {for essentially box-shaped devices}
67/26	. . . with screw action, with or without the shackle being moved by turning the key	73/0064	. . . {of the mechanical type}
67/28	. . Padlocks with shackles forming a circle	73/007	. {for boats, surfboards or parts or accessories thereof}
67/32	. . Padlocks with pincer- like shackles	73/0076	. . {outboard motors or propellers}
67/36	. Padlocks with closing means other than shackles; {Removable locks, the lock body itself being the locking element; Padlocks consisting of two separable halves or cooperating with a stud}	73/0082	. {for office machines, e.g. PC's, portable computers, typewriters, calculators}
67/365	. . {with locking means in the form of balls or rollers}	2073/0088	. . {being lockable or unlockable by means of the office machine itself, e.g. by its keyboard}
67/38	. Auxiliary or protective devices {(weather protection <a href="#">E05B 17/002</a> ; armoured cases <a href="#">E05B 67/04</a> )}	73/0094	. {for skate-boards}
67/383	. . {Staples or the like for padlocks; Lock slings; Arrangements on locks to cooperate with padlocks}	73/02	. for walking sticks or umbrellas ({walking sticks with locks <a href="#">A45B 1/04</a> }; stick or umbrella holders in general <a href="#">A47G 25/12</a> )
2067/386	. . {Padlock holders}	<b>75/00</b>	<b>Handcuffs {Finger cuffs; Leg irons; Handcuff holsters; Means for locking prisoners in automobiles (retaining devices for the body or body parts <a href="#">A61F 5/37</a>)}</b>
		75/005	. {Handcuff holders, e.g. for storage}

**Locking devices for clothing, sticks, umbrellas, or cycles**

<b>69/00</b>	<b>Devices for locking clothing; Lockable clothing holders or hangers</b> ({anti-theft monitors <a href="#">E05B 73/0017</a> ; shoe hangers, clothing}, dress or hat holders in general <a href="#">A47G 25/00</a> )
69/003	. {for locking shoes against removal}
69/006	. {Lockable hangers or hanger racks}
69/02	. Lockable clothing hooks (coin controlled locking hooks <a href="#">G07F</a> )
<b>71/00</b>	<b>Locks specially adapted for bicycles, other than padlocks</b> ({locks integral with holders for parking or storing bicycles <a href="#">B62H 3/00</a> }; locks integral with cycles <a href="#">B62H 5/00</a> )
<b>73/00</b>	<b>Devices for locking portable objects against unauthorised removal; Miscellaneous locking devices</b> {(motorcycle helmets <a href="#">A42B 3/0413</a> , <a href="#">B62J 11/005</a> ; gun racks <a href="#">A47B 81/005</a> ; showcases with theft protection <a href="#">A47F 3/002</a> ; anti-theft means for peg-boards, grids or rods for hanging merchandise <a href="#">A47F 5/0861</a> ; show stands, hangers, shelves with provision against unauthorised removal <a href="#">A47F 7/024</a> ; for self-service hand-carts <a href="#">A47F 10/04</a> ; locking skis <a href="#">A63C 11/004</a> ; locking bolts, nuts or pins <a href="#">F16B 41/00</a> )}
73/0005	. {using chains, cables or the like (chain- or cable-locks of the padlock type <a href="#">E05B 67/003</a> ; lockable clothing hangers or hanger racks <a href="#">E05B 69/006</a> )}
73/0011	. . {with retraction of the flexible element for storage ( <a href="#">E05B 73/0029</a> takes precedence; for padlocks <a href="#">E05B 67/006</a> )}
73/0017	. {Anti-theft devices, e.g. tags or monitors, fixed to articles, e.g. clothes, and to be removed at the check-out of shops}
73/0023	. . {Containers, boxes, cases or the like, e.g. for compact discs or video-cassettes, specially adapted therefor}
73/0029	. . {Tags wrapped around the protected product using cables, wires or the like, e.g. with cable retraction for tensioning}
73/0035	. . {for eyeglasses or spectacles}
73/0041	. . {for essentially round objects, e.g. bottles or racket handles}
73/0047	. . {Unlocking tools; Decouplers}

**Locks for vehicles other than bicycles**

<b>77/00</b>	<b>Vehicle locks characterised by special functions or purposes</b> (locks specially adapted for bicycles <a href="#">E05B 71/00</a> ; locking arrangements for non-fixed vehicle roofs <a href="#">B60J 7/185</a> )
77/02	. for accident situations
77/04	. . Preventing unwanted lock actuation, e.g. unlatching, at the moment of collision
77/06	. . . by means of inertial forces
77/08	. . Arrangements for protection of pedestrians
77/10	. . Allowing opening in case of deformed bodywork, e.g. by preventing deformation of lock parts
77/12	. . Automatic locking or unlocking at the moment of collision
77/14	. Specially controlled locking actions in case of open doors or in case of doors moved from an open to a closed position, e.g. lock-out prevention or self-cancelling
77/16	. . Preventing locking with the bolt in the unlatched position, i.e. when the door is open
77/18	. . Keyless locking with self-cancellation, e.g. resulting in an unlocking action when the door is being closed
77/20	. . . Override of self-cancellation, e.g. by actuation of the handle while the door is being closed
77/22	. Functions related to actuation of locks from the passenger compartment of the vehicle
77/24	. . preventing use of an inner door handle, sill button, lock knob or the like
77/245	. . . {by blocking the movement of a movable element}
77/26	. . . specially adapted for child safety
77/265	. . . . {hand actuated, e.g. by a lever at the edge of the door}
77/28	. . . for anti-theft purposes, e.g. double-locking or super-locking
77/283	. . . . {initiated by hand actuation, e.g. by using a mechanical key}
77/287	. . . . {Prevention or overriding of a super-lock condition, e.g. for preventing being trapped in the vehicle}
77/30	. . allowing opening by means of an inner door handle, even if the door is locked



- 77/32 . . allowing simultaneous actuation of locking or unlocking elements and a handle, e.g. preventing interference between an unlocking and an unlatching action
- 77/34 . . Protection against water, e.g. against water ingress ([closures or guards for keyholes E05B 17/14](#))
- 77/36 . . Noise prevention; Anti-rattling means
- 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
- 77/40 . . . Lock elements covered by silencing layers, e.g. coatings
- 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](#))
- 77/44 . . Burglar prevention, e.g. protecting against opening by unauthorised tools ([E05B 77/28 takes precedence](#))
- 77/46 . . Locking several wings simultaneously
- 77/465 . . . {Automatic locking when all passengers have left the vehicle}
- 77/48 . . . by electrical means
- 77/50 . . . by pneumatic or hydraulic means
- 77/52 . . Locking one wing by shutting another
- 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](#))
- 79/00 Mounting or connecting vehicle locks or parts thereof**
- 79/02 . . Mounting of vehicle locks or parts thereof
- 79/04 . . . Mounting of lock casings to the vehicle, e.g. to the wing
- 79/06 . . . Mounting of handles, e.g. to the wing or to the lock
- 79/08 . . . Mounting of individual lock elements in the lock, e.g. levers
- 79/10 . . Connections between movable lock parts
- 79/12 . . . using connecting rods
- 79/14 . . . . the rods being linked to each other
- 79/16 . . . . characterised by the means for linking the rods to other lock parts, e.g. to levers
- 79/18 . . . . Rod guides
- 79/20 . . . using flexible connections, e.g. Bowden cables
- 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](#))
- 81/00 Power-actuated vehicle locks**
- 81/01 . . {Comfort closing, i.e. the locking action for a wing is combined with actuation of other vehicle functions, e.g. locking the doors and closing the windows simultaneously}
- 81/02 . . characterised by the type of actuators used
- 81/04 . . . Electrical ([electrical circuits E05B 81/54](#))
- 81/05 . . . . {moving in one direction only}
- 81/06 . . . . using rotary motors
- 81/08 . . . . using electromagnets or solenoids
- 81/10 . . . Hydraulic or pneumatic ([hydraulic or pneumatic circuits E05B 81/52](#))
- 81/12 . . characterised by the function or purpose of the powered actuators
- 81/13 . . . {a single actuator for driving a lock and additional vehicle components, e.g. window wipers or window lifters}
- 81/14 . . . operating on bolt detents, e.g. for unlatching the bolt
- 81/15 . . . . {with means preventing the detent to return to its latching position before the bolt has moved to the unlatched position}
- 81/16 . . . operating on locking elements for locking or unlocking action
- 81/18 . . . to effect movement of a bolt or bolts ([E05B 81/20 takes precedence](#))
- 81/20 . . . for assisting final closing or for initiating opening
- 81/21 . . . . {with means preventing or detecting pinching of objects or body parts}
- 81/22 . . . . by movement of the striker
- 81/24 . . characterised by constructional features of the actuator or the power transmission
- 81/25 . . . {Actuators mounted separately from the lock and controlling the lock functions through mechanical connections}
- 81/26 . . . Output elements
- 81/28 . . . . Linearly reciprocating elements
- 81/30 . . . . Rotary elements
- 81/32 . . . Details of the actuator transmission
- 81/34 . . . . of geared transmissions
- 81/36 . . . . . Geared sectors, e.g. fan-shaped gears
- 81/38 . . . . . Planetary gears
- 81/40 . . . . Nuts or nut-like elements moving along a driven threaded axle
- 81/42 . . . . Cams
- 81/44 . . . . . in the form of grooves
- 81/46 . . . . Clutches
- 81/48 . . . Actuators being driven in a single direction
- 81/50 . . . Powered actuators with automatic return to the neutral position by non-powered means, e.g. by springs
- 81/52 . . . Pneumatic or hydraulic circuits ([for locking several wings simultaneously E05B 77/50](#))
- 81/54 . . . Electrical circuits ([for locking several wings simultaneously E05B 77/48](#))
- 81/56 . . . Control of actuators
- 81/58 . . . . including time control, e.g. for controlling run-time of electric motors
- 81/60 . . . . using pulse control, e.g. pulse-width modulation
- 81/62 . . . . for opening or closing of a circuit depending on electrical parameters, e.g. increase of motor current
- 81/64 . . . Monitoring or sensing, e.g. by using switches or sensors
- 81/66 . . . . the bolt position, i.e. the latching status
- 81/68 . . . . . by sensing the position of the detent
- 81/70 . . . . the wing position
- 81/72 . . . . the lock status, i.e. locked or unlocked condition
- 81/74 . . . . . by sensing the state of the actuator
- 81/76 . . . . Detection of handle operation; Detection of a user approaching a handle; Electrical switching actions performed by door handles
- 81/77 . . . . . {comprising sensors detecting the presence of the hand of a user}

81/78	. . . . as part of a hands-free locking or unlocking operation	85/00	<b>Details of vehicle locks not provided for in groups E05B 77/00 - E05B 83/00</b>
81/80	. . characterised by the power supply; Emergency power operation	85/01	. . {Mechanical arrangements specially adapted for hands-free locking or unlocking (handles with means for initiation of a hands-free locking or unlocking process E05B 81/78)}
81/82	. . . using batteries other than the vehicle main battery	85/02	. Lock casings (mounting of lock casings E05B 79/04)
81/84	. . . using manually operated generator means	85/04	. Strikers
81/86	. . . using capacitors	85/045	. . {for bifurcated bolts}
81/88	. . . using inductive energy transmission	85/06	. Lock cylinder arrangements
81/90	. . Manual override in case of power failure	85/08	. Sill-buttons, garnish buttons or inner door lock knobs
<b>83/00</b>	<b>Vehicle locks specially adapted for particular types of wing or vehicle (locks specially adapted for bicycles E05B 71/00; locking arrangements for non-fixed vehicle roofs B60J 7/185; latching means for sideboards or tailgates of open load compartments B62D 33/037)</b>	85/085	. . {Manipulators therefor (E05B 19/20 takes precedence)}
83/01	. . {Locks for military or armoured vehicles}	85/10	. Handles
83/02	. Locks for railway freight-cars, freight containers or the like; Locks for the cargo compartments of commercial lorries, trucks or vans	85/103	. . {creating a completely closed wing surface}
83/04	. . for sliding wings	85/107	. . {Pop-out handles, e.g. sliding outwardly before rotation}
83/06	. . . of railway freight-cars	85/12	. . Inner door handles
83/08	. . with elongated bars for actuating the fastening means	85/13	. . . {with a locking knob forming part of the inside door handle unit}
83/10	. . . Rotary bars	85/14	. . Handles pivoted about an axis parallel to the wing
83/12	. . for back doors of vans (E05B 83/04, E05B 83/08 take precedence)	85/16	. . . a longitudinal grip part being pivoted at one end about an axis perpendicular to the longitudinal axis of the grip part
83/14	. . with provisions for sealing	85/18	. . . a longitudinal grip part being pivoted about an axis parallel to the longitudinal axis of the grip part
83/16	. Locks for luggage compartments, car boot lids or car bonnets	85/20	. Bolts or detents
83/18	. . for car boot lids or rear luggage compartments	85/22	. . Rectilinearly moving bolts
83/20	. . . with two or more wings, which together close a single compartment	85/24	. . Bolts rotating about an axis
83/22	. . for luggage compartments at the side of the vehicle, e.g. of buses or camper vans	85/243	. . . {with a bifurcated bolt}
83/24	. . for car bonnets	85/245	. . . {with a pair of bifurcated bolts}
83/243	. . . {Hood clamps, i.e. individually actuated, usually yielding hooks}	85/247	. . . {about a vertical axis}
83/247	. . . {Simultaneously actuated fasteners at separated positions}	85/26	. . . Cooperation between bolts and detents
83/26	. . Emergency opening means for persons trapped in the luggage compartment	85/28	. . . in which the member engaging the keeper is shaped as a toothed wheel or the like
83/28	. Locks for glove compartments, console boxes, fuel inlet covers or the like		
83/30	. . for glove compartments		
83/32	. . for console boxes, e.g. between passenger seats		
2083/33	. . { }		
83/34	. . for fuel inlet covers essentially flush with the vehicle surface		
83/36	. Locks for passenger or like doors		
83/363	. . {for railway vehicles (E05B 77/54 takes precedence)}		
83/367	. . {with centering alignment pin}		
83/38	. . for pillar-less vehicles, i.e. vehicles where a front and a back door engage each other in the closed position		
83/40	. . for sliding doors		
83/42	. . for large commercial vehicles, e.g. trucks, construction vehicles or vehicles for mass transport		
83/44	. . for recreational vehicles, e.g. caravans or camper vans		