

## E05C

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

### Definition statement

*This place covers:*

Bolts or fastening devices for swingable, slidable, or otherwise movable wings, e.g. doors or windows. This subclass has the following structure:

[E05C 1/00](#) - [E05C 5/00](#)

Fastening devices characterised by the way the bolt is moved.

[E05C 7/00](#)

Fastening devices specially adapted for two wings.

[E05C 9/00](#)

Arrangements of simultaneously actuated bolts or other securing devices at well separated positions on the same wing.

[E05C 17/00](#)

Fastening devices for holding wings open.

[E05C 19/00](#), [E05C 21/00](#)

Other devices specially designed for securing wings.

### References

#### Limiting references

*This place does not cover:*

Buckles; Similar fasteners for interconnecting straps or the like, e.g. for safety belts	<a href="#">A44B 11/00</a>
Hinges or pivots	<a href="#">E05D 1/00</a> - <a href="#">E05D 7/00</a>
Accessories for sliding or lifting wings	<a href="#">E05D 13/00</a>
Suspension arrangements for wings	<a href="#">E05D 15/00</a>
Closers or openers for wings, braking devices	<a href="#">E05F 1/00</a> - <a href="#">E05F 7/00</a>
Operating mechanisms for wings	<a href="#">E05F 9/00</a> - <a href="#">E05F 17/00</a>
Sealing arrangements for wings	<a href="#">E06B 7/16</a>
Devices for fastening or securing constructional elements or machine parts together	<a href="#">F16B</a>

### Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Locking devices for vehicle seats	<a href="#">B60N 2/00</a>
Latching means of sideboard or tailgate structures	<a href="#">B62D 33/037</a>
Locking devices for container closures	<a href="#">B65D 55/02</a>
Locking or fastening means for lids or covers of refuse receptacles	<a href="#">B65F 1/1615</a>
Connections for building structures	<a href="#">E04B 1/38</a>

### Special rules of classification

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.

### Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Wing	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	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	Primarily a device for releasing or securing any member, which requires a key or a permutation mechanism for release.
Bolt	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	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	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.

### Synonyms and Keywords

In patent documents, the following words/expressions are often used as synonyms:

- "espagnolette lock", "multi-point lock" and "multipoint locking system" to indicate locks with simultaneously actuated bolts, e.g. by means of transmission bars, at well separated positions on the same wing.

## E05C 1/00

### Fastening devices with bolts moving rectilinearly

#### Definition statement

*This place covers:*

Fastening devices comprising a rectilinearly movable bolt. The bolt can have either latching or non latching action. The bolt can be moved with an operating handle or equivalent member moving rigidly or non rigidly with the bolt. This group also cover cylindrical or tubular latches.

#### References

##### Limiting references

*This place does not cover:*

Arrangements of simultaneously actuated bolts at well-separated positions on the same frame	<a href="#">E05C 9/00</a>
Devices for holding a wing open comprising a sliding securing member	<a href="#">E05C 17/48</a>
Automatic catches with sliding bolts	<a href="#">E05C 19/028</a>
Locks in which a sliding latch is used also as a locking bolt	<a href="#">E05B 55/00</a>
Lock with a sliding bolt without provision of latching	<a href="#">E05B 63/0017</a>
Vehicle locks with a rectilinearly movable bolt	<a href="#">E05B 85/22</a>

##### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Cylindrical or tubular locks	<a href="#">E05B 55/005</a>
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## E05C 3/00

### Fastening devices with bolts moving pivotally or rotatively

#### Definition statement

*This place covers:*

Fastening devices comprising a pivotally or rotatively movable bolt. The bolt can have either latching or non latching action. The bolt can be moved with an operating handle or equivalent member moving rigidly or non rigidly with the bolt.

#### References

##### Limiting references

*This place does not cover:*

Arrangements of simultaneously actuated bolts at well-separated positions on the same frame	<a href="#">E05C 9/00</a>
Devices for holding a wing open comprising a single pivoting securing member	<a href="#">E05C 17/50</a>
Latches with wedging action, tilt-plates	<a href="#">E05C 19/008</a>
Automatic catches with a bifurcated latch	<a href="#">E05C 19/024</a>

In which the securing part is formed or carried by a spring and moves only by distortion of the spring, e.g. snaps	<a href="#">E05C 19/06</a>
Locks in which a pivoted latch is used also as locking means	<a href="#">E05B 57/00</a>
Locks with rotary bolt without provision for latching	<a href="#">E05B 63/0013</a>
Locks for refrigerators with a bifurcated bolt	<a href="#">E05B 65/0046</a>
Locks for sliding wings with pivoting bolts	<a href="#">E05B 65/0811</a> , <a href="#">E05B 65/0835</a>
Locks for sliding wings with double hook-like pivoting members	<a href="#">E05B 65/0858</a>
Locks for car boot lids	<a href="#">E05B 83/18</a>
Locks for car bonnets	<a href="#">E05B 83/24</a>
Vehicle locks with a bolt turning around an axis	<a href="#">E05B 85/24</a>
Vehicle locks in which the member engaging the keeper is shaped as a toothed wheel or the like	<a href="#">E05B 85/28</a>

### **Informative references**

Attention is drawn to the following places, which may be of interest for search:

Hook-like fastening	<a href="#">E05C 19/10</a>
Locks with circular bolts	<a href="#">E05B 63/123</a>

## **E05C 5/00**

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

### **Definition statement**

*This place covers:*

Fastening devices with bolts moving otherwise than only rectilinearly and only pivotally or rotatively, e.g. bolts moving axially and turning about their axis to secure the wing.

### **References**

#### **Limiting references**

*This place does not cover:*

Espagnolette locks with a pivoting bolt on actuating bar	<a href="#">E05C 9/1883</a>
Latches with floating bolts, e.g. rings, balls	<a href="#">E05C 19/009</a>
Hook fastenings with toggle action	<a href="#">E05C 19/14</a>
Fastening devices with means carried by the bolt for interlocking with the keeper comprising a sliding bolt rotating about its axis, i.e. of bayonet type	<a href="#">E05B 63/125</a>
Fastening devices with means carried by the bolt for interlocking with the keeper, the bolt having an additional sliding bolt or movement	<a href="#">E05B 63/126</a>

Fastening devices with means carried by the bolt for interlocking with the keeper, the bolt having an additional rotating bolt or movement	<a href="#">E05B 63/127</a>
Locks for sliding doors with a pivoting bolt having an additional movement	<a href="#">E05B 65/0817</a>

### **Informative references**

Attention is drawn to the following places, which may be of interest for search:

Hook-like fastening	<a href="#">E05C 19/10</a>
Locks with circular bolts	<a href="#">E05B 63/123</a>

## **E05C 7/00**

### **Fastening devices specially adapted for two wings**

#### **Definition statement**

*This place covers:*

Fastening devices specially adapted for two wings. It includes locks for sluice doors, for doors having upper and lower wings, for doors which lie one behind the other when closed, and for doors which abut when closed.

#### **References**

##### **Limiting references**

*This place does not cover:*

Locking one wing by shutting another in vehicles	<a href="#">E05B 77/52</a>
Locks for pillar-less vehicles	<a href="#">E05B 83/38</a>

##### **Application-oriented references**

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Container apertures for pressure vessels of nuclear reactors	<a href="#">G21C 13/0285</a>
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## **E05C 9/00**

**Arrangements of simultaneously actuated bolts or other securing devices at well-separated positions on the same wing ({Locking, cross or security bars [E05C 19/003](#); locks for safes or the like [E05B 65/0075](#); of the vertical-rod type for panic or emergency doors [E05B 65/1006](#)}; similar constructions for engineering closures [F16J 13/08](#))**

#### **Definition statement**

*This place covers:*

Locks with simultaneously actuated bolts, e.g. by means of transmission bars, at well separated positions on the same wing.

This group has the following main structure:

Automatic, i.e. actuated by closing the wing	<a href="#">E05C 9/002</a>
Faceplates; fixing the faceplates to the wing	<a href="#">E05C 9/004</a>
Details of bars; bar guiding means	<a href="#">E05C 9/006</a>
With one sliding bar for fastening when moved in one direction and unfastening when moved in opposite direction; with two sliding bars moved in the same direction when fastening or unfastening	<a href="#">E05C 9/02</a>
With two sliding bars moved in opposite directions when fastening or unfastening	<a href="#">E05C 9/04</a>
Actuating mechanisms for bars	<a href="#">E05C 9/10</a>
Details of fastening means or of the fixed retaining means for the ends of the bars	<a href="#">E05C 9/18</a>
Keepers	<a href="#">E05C 9/1808</a>
Fastening means	<a href="#">E05C 9/1825</a>
Coupling means for sliding bars, rods or cables	<a href="#">E05C 9/20</a>

## References

### Limiting references

*This place does not cover:*

Bolts extending nearly along the whole length of the wing	<a href="#">E05C 19/001</a>
Locking bars, cross bars, security bars	<a href="#">E05C 19/003</a>
Face plates or front plates for non-espagnolette locks	<a href="#">E05B 9/002</a>
Striker plates for non-espagnolette locks	<a href="#">E05B 15/0205</a>
Operation of locks by flexible means, e.g. by cables	<a href="#">E05B 53/003</a>
Operation of locks by flexible means, e.g. by Bowden cables	<a href="#">E05B 53/005</a>
Arrangements of several locks or locks with several bolts	<a href="#">E05B 63/14</a>
Panic locks of the vertical rod type	<a href="#">E05B 65/1006</a>
Drawer interlock mechanism with rotary locking bars	<a href="#">E05B 65/465</a>
Locks for a plurality of drawers using a rotary lock bar	<a href="#">E05B 65/468</a>
Connecting vehicle lock parts using connecting rods	<a href="#">E05B 79/12</a>
Locks for vehicles with at least one elongated bar for actuating the fastening means	<a href="#">E05B 83/08</a>
Locks for vehicles with a rotary bar for actuating the fastening means	<a href="#">E05B 83/10</a>
Means for transmitting movements between vertical and horizontal sliding bars	<a href="#">E05F 7/08</a>

### Application-oriented references

*Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:*

Arrangements of watertight doors in bulkheads	<a href="#">B63B 43/24</a>
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Covers or similar closure members for pressure vessels	<a href="#">F16J 3/00</a>
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***Informative references***

*Attention is drawn to the following places, which may be of interest for search:*

Locks for safes	<a href="#">E05B 65/0075</a>
Locks for lockers	<a href="#">E05B 65/025</a>