

## E05D

**HINGES OR OTHER SUSPENSION DEVICES FOR DOORS, WINDOWS OR WINGS ([N: foldable tables A47B3/00; hinged panels A47B5/00; foldable chairs A47C4/00; making hinges B21D53/40, B21K13/02; making holes for taking-up fittings B27F5/12; for vehicle tailboards B60P1/00D; for refuse receptacles B65F1/1646]; pivotal connections in general F16C11/00; mounting of stove or range doors F24C15/023; for folding flat displays of portable computers G06F1/16P2H ])**

### Definition statement

*This subclass/group covers:*

Hinges and other suspension devices such as sliding suspensions, for wings in building construction and outfitting, fences, domestic appliances, vehicles and furniture.

Also covered are hinge parts such as pins, flaps and sleeves, furthermore hinges of special construction, such as adjustable hinges and hinges with devices for preventing movement between hinge parts, and finally accessories for hinges and for sliding or lifting wings.

### Relationship between large subject matter areas

- Locks for doors and windows in [E05B](#) and [E05C](#)
- Doors, windows, gates and frames per se in buildings in [E06B](#)
- Doors, windows and other moveable wings per se in vehicles in [B60J](#)
- Doors, covers, lids and other moveable wings per se in furniture in [A47B](#)

### References relevant to classification in this subclass

*This subclass/group does not cover:*

Arrangements for water-tight doors in ships	<a href="#">B63B 43/24</a>
Heavy bearings in sluice gates	<a href="#">E02B 7/40</a>
Self-closing hinges	<a href="#">E05F 1/06</a> , <a href="#">E05F 1/12</a> , <a href="#">E05F 3/20</a>
Pivotal connections in general	<a href="#">F16C 11/00</a>
Hinges for glasses	<a href="#">G02C 5/22</a>
Hinges for folding parts of portable	<a href="#">G06F 1/1615</a> , <a href="#">G06F 1/1633</a> , <a href="#">H04M</a>

electronic devices	<a href="#">1/02</a>
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## Informative references

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

Foldable tables	<a href="#">A47B 3/00</a>
Foldable chairs	<a href="#">A47C 4/00</a>
Hinged panels	<a href="#">A47B 5/00</a>
Making hinges	<a href="#">B21D 53/40</a> , <a href="#">B21K 13/02</a>
Making holes for taking-up fittings	<a href="#">B27F 5/12</a>
Hinges for vehicle tailboards	<a href="#">B60P 1/00D</a>
Hinges for refuse receptacles	<a href="#">B65F 1/1646</a>
Mounting of stove or range doors	<a href="#">F24C 15/023</a>
Mounting of refrigerator doors	<a href="#">F25D 23/02</a>

## Special rules of classification within this subclass

Hinges and/or substitutes for hinges: [E05D 1/00](#) and/or [E05D 3/00](#).

Hinges of special construction to facilitate mounting, de-mounting and setting-up of hinges, or for specific uses: [E05D 7/00](#).

Construction of single hinge parts (not related to materials): [E05D 5/00](#).

Construction of single hinge parts (related to materials): [E05D 9/00](#).

Additional features or accessories of hinges relevant during regular use of the hinge, e.g. anti-tamper devices, protective devices, electrical cable routing, lubricating, movement controlling/limiting devices: [E05D 11/00](#).

Accessories of wings and suspension and/or supporting arrangements for wings: [E05D 13/00](#) and [E05D 15/00](#).

A number of main groups in this sub-class contain a large number of older documents that were classified administratively. These documents have not yet been reclassified to the sub-groups and are indexed with [E05Y 2800/00](#).

This index should not be used for classification.

[E05D 2700/00](#) is an old indexing scheme. It can be used for search but should not be used for classification.

Under [E05Y 2900/00](#) an indexing scheme exists for information on the application or use of the devices. The indexing scheme is shared with the sub-class [E05F](#).

## Glossary of terms

*In this subclass/group, the following terms (or expressions) are used with the meaning indicated:*

Flaps	Parts of hinges for attachment to wings or frames
Hinges	Devices with a varying number and type of pins and arms, for pivoting connection of wings to a fixed structure
Self-closing hinges	Gravity- or spring-operated hinges constructed to provide a closing force to wings over a substantial part of their movement; includes Devices for wing-counterbalancing
Substitutes for hinges	Devices, without the use of a hinge pin, for pivoting connection of wings to a fixed structure
Suspension arrangements	Arrangements to suspend or otherwise support wings other than by hinges; for wing motions other than simple pivoting, e.g. revolving, sliding, combined or alternative motions
Wings	Pivotable, slideable, or otherwise moveable part of doors, windows, flaps, covers etc. in building construction and outfitting, fences, domestic appliances, vehicles and furniture; the term also includes other movable structures such as drawers, lids of chests, car boots, or car bonnets

## Synonyms and Keywords

In patent documents the following abbreviations are often used:

Pivoting	Swinging
Suspension arrangements	Suspension devices

## E05D 1/00

### Pinless hinges; Substitutes for hinges

#### Definition statement

*This subclass/group covers:*

Means, without the use of a hinge pin, for pivoting connection of doors, windows or other wings to a fixed structure; e.g. flexible strips, arched guide members.

#### Relationship between large subject matter areas

- Hinges with pins in [E05D 3/00](#)

#### Special rules of classification within this group

[E05D 1/06](#) covers pinless hinges that consist of easily separable parts. If the hinge is separable at a hinge pin, [E05D 7/10](#) is to be used.

Furthermore, it is noted that the main group [E05D 1/00](#) contains a large number of older documents that were classified administratively. These documents have not yet been reclassified to the sub-groups of [E05D 1/00](#) and are indexed with [E05Y 2800/00](#). The presence of these documents should not be construed as an indicator to classify similar documents in [E05D 1/00](#). Rather, the sub-groups always take precedence.

## E05D 3/00

### Hinges with pins [N: (E05D7/08 takes precedence)]

#### Definition statement

*This subclass/group covers:*

Hinges characterized by the nature of the pivotal connection, i.e. the number and type of hinge pins and arms.

## Relationship between large subject matter areas

- Hinges characterized by the absence of hinge pins in [E05D 1/00](#)
- Hinge parts in [E05D 5/00](#)
- Hinges characterized by additional features in [E05D 7/00](#) and in [E05D 11/00](#)
- Closers or openers for wings in the shape of hinges or pivots in [E05F 1/06](#), [E05F 1/12](#) and [E05F 3/20](#)
- Accessories of hinges in [E05D 11/00](#)

## References relevant to classification in this group

*This subclass/group does not cover:*

Spigots placed at opposite edges of the wing, e.g. trunnions	<a href="#">E05D 7/08</a>
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## Special rules of classification within this group

If the hinges comprises springs, the following groups apply in addition to [E05D 3/02](#) or [E05D 3/06](#):

- if said springs apply a hold force to hold the hinge and respective wing in an immobile, e.g. closed or intermediate position, [E05D 11/1014](#) and/or [E05D 11/1028](#);
- if said springs provide a closing force to the hinge and respective wing over a substantial part of its travel, [E05F 1/12](#) or, if an integrated braking device is present, [E05F 3/20](#).

Furthermore, it is noted that the main group [E05D 3/00](#) contains a large number of older documents that were classified administratively. These documents have not yet been reclassified to the sub-groups of [E05D 3/00](#) but are indexed with [E05Y 2800/00](#). The presence of these documents should not be construed as an indicator to classify similar documents in [E05D 3/00](#). Rather, the sub-groups always take precedence.

## E05D 3/06

**with two or more pins (E05D7/08 takes precedence)**

## References relevant to classification in this group

*This subclass/group does not cover:*

Spigots placed at opposite edges of the wing, e.g. trunnions	<a href="#">E05D 7/08</a>
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## E05D 3/142

[N: with at least one of the hinge parts having a cup-shaped fixing part, e.g. for attachment to cabinets or furniture (E05D11/1021 takes precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Hinges with devices for preventing movement between relatively-moveable hinge parts, e.g. hold-closed springs	<a href="#">E05D 11/1021</a>
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## E05D 5/00

**Construction of single parts, e.g. the parts for attachment**

### Definition statement

*This subclass/group covers:*

Features of hinge parts, namely hinge pins, sockets, sleeves and the parts for attachment of the hinge to doors, windows, flaps or other wings and/or for attachment to a fixed structure.

### Relationship between large subject matter areas

- Features of hinge pins, sockets, and/or sleeves related to providing the hinge with a gravity- or spring-actuated self-closing function in [E05F 1/06](#) and [E05F 1/12](#)
- Features of hinge pins, sockets, and/or sleeves related to achieving adjustability of the hinge at the hinge pin/axis in [E05D 7/0018](#)
- Features of hinge pins, sockets, and/or sleeves related to allowing easy separation of the hinge parts at the hinge pin/axis in [E05D 7/10](#)
- Features of parts for attachment of the hinge related to achieving adjustability of the hinge relative to the wing or frame [E05D 7/04](#)
- Features of hinge parts related to material in [E05D 9/00](#)

## E05D 5/0207

for attachment to vehicles (E05D5/043, E05D5/062 take precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Flat flaps for attachment to vehicles	<a href="#">E05D 5/043</a>
Bent flaps for attachment to vehicles	<a href="#">E05D 5/062</a>

## E05D 5/0276

for attachment to cabinets or furniture, the hinge having two or more pins

### References relevant to classification in this group

*This subclass/group does not cover:*

Flat flaps for attachment to cabinets or furniture	<a href="#">E05D 5/046</a>
Bent flaps for attachment to cabinets or furniture	<a href="#">E05D 5/065</a>
Attachment parts to allow easy detachment of the hinge from the wing or frame	<a href="#">E05D 7/125</a>

## E05D 5/10

Pins, sockets or sleeves; Removable pins (E05D15/522 takes precedence)

### References relevant to classification in this group

*This subclass/group does not cover:*

Devices for selectively disconnecting pins or pivoting parts (in wings opening about a vertical as well as a horizontal axis)	<a href="#">E05D 15/522</a>
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## E05D 5/125

[N: Non-removable, snap-fitted pins (removable snap-fitted pins E05D7/1022, E05D7/1055 )]

### References relevant to classification in this group

*This subclass/group does not cover:*

Removable snap-fitted pins	<a href="#">E05D 7/1022</a> , <a href="#">E05D 7/1055</a>
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## E05D 5/127

[N: by forcing the pin into the socket (E05D5/125 takes precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Non-removable snap-fitted pins	<a href="#">E05D 5/125</a>
Removable snap-fitted pins	<a href="#">E05D 7/1022</a> , <a href="#">E05D 7/1055</a>

## E05D 7/00

Hinges or pivots of special construction (used for special suspension arrangements E05D15/00; so as to be self-closing E05F1/06, E05F1/12; with means for raising wings before being turned E05F7/02 )

### Definition statement

*This subclass/group covers:*

Hinges or pivots constructed to provide additional hinge-specific features relating especially to features facilitating mounting, de-mounting and setting-up of hinges, e.g. adjustability, easy separation of the hinge parts, easy detachment of the hinge from the wing or frame.

Also covered are hinges or pivots constructed for specific uses such as elongated hinges (e.g. piano-hinges), convertible right-hand or left-hand hinges, hinges placeable on opposite edges of the wing (e.g. trunnions), hinges for safes.

### Relationship between large subject matter areas

- Hinges for special suspension arrangements in [E05D 15/00](#) and lower
- Hinges constructed to provide additional features relevant during regular use of the hinge, e.g. anti-tamper devices, protective devices, electrical cable routing, lubricating, movement controlling/limiting devices, in [E05D 11/00](#)

### References relevant to classification in this group

*This subclass/group does not cover:*

Self-closing hinges	<a href="#">E05F 1/06</a> , <a href="#">E05F 1/12</a> , <a href="#">E05F 3/20</a>
Heavy bearings in sluice gates	<a href="#">E02B 7/40</a>
Arrangements for water-tight doors in ships	<a href="#">B63B 43/24</a>
Hinges for glasses	<a href="#">G02C 5/22</a>
Hinges for folding parts of portable electronic devices	<a href="#">G06F 1/1615</a> , <a href="#">G06F 1/1633</a> , <a href="#">H04M 1/02</a>
Hinges with means for raising wings before being turned	<a href="#">E05F 7/02</a>

### Informative references

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

Making hinges	<a href="#">B21D 53/40</a> , <a href="#">B21K 13/02</a>
Making holes for taking-up fittings	<a href="#">B27F 5/12</a>
Foldable tables	<a href="#">A47B 3/00</a>
Hinged panels	<a href="#">A47B 5/00</a>
Foldable chairs	<a href="#">A47C 4/00</a>
Hinges for vehicle tailboards	<a href="#">B60P 1/00D</a>
Hinges for refuse receptacles	<a href="#">B65F 1/1646</a>
Mounting of stove or range doors	<a href="#">F24C 15/023</a>
Mounting of refrigerator doors	<a href="#">F25D 23/02</a>

Hinges for folding parts of portable electronic devices	<a href="#">G06F 1/1615</a> , <a href="#">G06F 1/1633</a> , <a href="#">H04M 1/02</a>
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### Special rules of classification within this group

The additional hinge-specific features covered in this group relate especially to features facilitating mounting, de-mounting and setting-up of hinges, e.g. adjustability, easy separation of the hinge parts, easy detachment of the hinge from the wing or frame. An exception is formed by features relating to allowing tilting of the members in [E05D 7/06](#) and braking devices structurally combined with hinges in [E05D 7/086](#), which are relevant also during regular use of the hinge.

Furthermore, it is noted that the main group [E05D 7/00](#) contains a large number of older documents that were classified administratively. These documents have not yet been reclassified TO the sub-groups of [E05D 7/00](#) and are indexed with [E05Y 2800/00](#). The presence of these documents should not be construed as an indicator to classify similar documents in [E05D 7/00](#). Rather, the sub-groups always take precedence.

### Glossary of terms

*In this subclass/group, the following terms (or expressions) are used with the meaning indicated:*

Member(s)	Wing(s) or Frame(s)
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### E05D 7/0009

**[N: Adjustable hinges (E05D7/04 takes precedence)]**

#### Definition statement

*This subclass/group covers:*

Hinges featuring internal adjustability, e.g. at the hinge axis.

#### References relevant to classification in this group

*This subclass/group does not cover:*

Hinges adjustable relative to the wing or the frame	<a href="#">E05D 7/04</a>
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## E05D 7/0423

[N: Screw-and-nut mechanisms (E05D7/0407, E05D7/043 take precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Hinges with two or more pins, adapted for cabinets or furniture	<a href="#">E05D 7/0407</a>
Hinges adjustable relative to the wing or the frame by means of dowel attachments	<a href="#">E05D 7/043</a>

## E05D 7/06

to allow tilting of the members

### Glossary of terms

*In this subclass/group, the following terms (or expressions) are used with the meaning indicated:*

Member(s)	Wing(s) or frame(s)
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## E05D 7/08

for use in suspensions comprising two spigots placed at opposite edges of the wing, especially at the top and the bottom, e.g. trunnions [N: (E05D15/266 takes precedence)]

### Informative references

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

Folding wings with two pivots placed at opposite edges of the wing	<a href="#">E05D 15/266</a>
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## E05D 7/086

Braking devices structurally combined with hinges (braking devices for windows per se E05F5/00)

## Informative references

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

Braking devices for windows per se	<a href="#">E05F 5/00</a>
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## E05D 7/10

to allow easy separation [N: or connection] of the parts at the hinge axis ([N: E05D5/12 and E05D15/50 take precedence]; substitutes for hinges E05D1/06 )

## References relevant to classification in this group

*This subclass/group does not cover:*

Hinges for disconnecting pins or pivoting parts in wings opening selectively about either of two opposite edges	<a href="#">E05D 15/50</a>
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## Informative references

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

Substitutes for hinges made from two easily separable parts	<a href="#">E05D 1/06</a>
Means to secure pins in sockets, movable or not	<a href="#">E05D 5/12</a>

## E05D 7/1011

[N: biased by free springs (E05D7/1016 takes precedence)]

## References relevant to classification in this group

*This subclass/group does not cover:*

Hinges allowing easy separation of the parts at the hinge axis by axially moving parts requiring a specific angular position	<a href="#">E05D 7/1016</a>
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## E05D 7/1044

[N: in an axial direction (E05D7/1005 takes precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Hinges allowing easy separation of the parts at the hinge axis by axially moving parts	<a href="#">E05D 7/1005</a>
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## E05D 7/1061

[N: in a radial direction (E05D7/1005 takes precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Hinges allowing easy separation of the parts at the hinge axis by axially moving parts	<a href="#">E05D 7/1005</a>
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## E05D 7/12

to allow easy detachment of the hinge from the wing or the frame[N:(E05D15/507 takes precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Hinges detachable from wings or frames for use with wings opening about either of two opposite edges	<a href="#">E05D 15/507</a>
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## E05D 9/00

Flaps or sleeves specially designed for making from particular material, e.g. hoop-iron, sheet metal, plastics

### Definition statement

*This subclass/group covers:*

Hinge parts designed for making from a particular material.

### **Relationship between large subject matter areas**

- Making hinges per se in [B21D 53/40](#) and [B21K 13/02](#)

### **E05D 9/005**

**[N: from plastics (E05D1/02 takes precedence)]**

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Pinless hinges made from one (elastically deformable) piece	<a href="#">E05D 1/02</a>
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### **E05D 11/00**

**Additional features or accessories of hinges [N: (edge protecting devices E06B3/88 )]**

### **Definition statement**

*This subclass/group covers:*

Hinges or pivots constructed to provide additional hinge-specific features relating especially to features relevant during regular use of the hinge, e.g. anti-tamper devices, protective devices, electrical cable routing, lubricating, movement controlling/limiting devices.

Also covered are accessories of hinges such as covers and templates for marking the mounting position of fittings on wings or frames.

### **Relationship between large subject matter areas**

Hinges or pivots constructed to provide additional features facilitating mounting, de-mounting and setting-up of hinges, e.g. adjustability, easy separation of the hinge parts, easy detachment of the hinge from the wing or frame, in [E05D 7/00](#).

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Self-closing hinges	<a href="#">E05F 1/06</a> , <a href="#">E05F 1/12</a> , <a href="#">E05F 3/20</a>
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## Informative references

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

Edge protecting devices	<a href="#">E06B 3/88</a>
Making hinges	<a href="#">B21D 53/40</a> , <a href="#">B21K 13/02</a>
Braking devices for hinges having a cup-shaped fixing part, e.g. for attachment to cabinets or furniture	<a href="#">E05F 5/006</a>

## Special rules of classification within this group

The additional hinge-specific features and accessories covered in this group relate especially to features relevant during regular use of the hinge, e.g. anti-tamper devices, electrical cable routing, lubricating, movement controlling or limiting devices. An exception is formed by the templates for marking the mounting position of fittings in [E05D 11/0009](#), which relate to facilitating mounting of fittings such as hinges.

Also, if springs apply a hold force to hold the hinge and respective wing in an immobile, e.g. closed or intermediate position, [E05D 11/1014](#) and/or [E05D 11/1028](#) apply. If said springs provide a closing force to the hinge and respective wing over a substantial part of its travel, [E05F 1/12](#) or, if an integrated braking device is present, [E05F 3/20](#) apply.

Finally, it is noted that the main group [E05D 11/00](#) contains a large number of older documents that were classified administratively. These documents have not yet been reclassified to the sub-groups of [E05D 11/00](#) and are indexed with [E05Y 2800/00](#). The presence of these documents should not be construed as an indicator to classify similar documents in [E05D 11/00](#). Rather, the sub-groups always take precedence.

## E05D 11/0009

**[N: Templates for marking the position of fittings on wings or frames (implements for making doors, windows or frames E04F21/003 )]**

## Informative references

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

Implements for making doors, windows or frames	<a href="#">E04F 21/003</a>
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## E05D 11/04

relating to the use of free balls as bearing-surfaces (E05D7/06 takes precedence)

### References relevant to classification in this group

*This subclass/group does not cover:*

Hinges specially constructed to allow tilting of the members	<a href="#">E05D 7/06</a>
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## E05D 11/08

Friction devices between relatively-movable hinge parts (E05D7/086 takes precedence)

### Definition statement

*This subclass/group covers:*

Friction devices in hinges for holding relatively-moveable hinge parts and consequently wings in a user-chosen position.

### References relevant to classification in this group

*This subclass/group does not cover:*

Braking devices structurally combined with a hinge comprising two spigots placed on opposite edges of the wing	<a href="#">E05D 7/086</a>
Self-closing hinges with friction braking devices	<a href="#">E05F 3/16</a>

### Glossary of terms

*In this subclass/group, the following terms (or expressions) are used with the meaning indicated:*

Self-closing hinge	Spring-operated hinge constructed to provide a closing force to wings over a substantial part of their movement; includes devices for wing-counterbalancing
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Braking device	Devices constructed to slow down the movement of wings
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## E05D 11/1014

**[N: for maintaining the hinge in only one position, e.g. closed]**

### Definition statement

*This subclass/group covers:*

Hinges with devices for preventing movement between relatively-moveable hinge parts by biasing said hinge parts into a single pre-determined, e.g. closed, position.

### Relationship between large subject matter areas

Hinges with devices for preventing movement between relatively-moveable hinge parts by biasing said hinge parts into intermediate or open positions, in [E05D 11/1028](#)

### References relevant to classification in this group

*This subclass/group does not cover:*

Self-closing hinges	<a href="#">E05F 1/06</a> , <a href="#">E05F 1/12</a> , <a href="#">E05F 3/20</a>
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### Special rules of classification within this group

If a closing force to the hinge and respective wing is provided over a substantial part of its travel, [E05F 1/06](#) or [E05F 1/12](#) apply; if furthermore an integrated braking device is present, [E05F 3/20](#) applies.

## E05D 11/1021

**[N: the hinge having two or more pins and being specially adapted for cabinets or furniture]**

### Definition statement

*This subclass/group covers:*

Cabinet or furniture hinges with two or more pins and with devices for preventing movement between relatively-moveable hinge parts by biasing said hinge parts into a single pre-determined, e.g. closed, position.

## References relevant to classification in this group

*This subclass/group does not cover:*

Self-closing hinges	<a href="#">E05F 1/06</a> , <a href="#">E05F 1/12</a> , <a href="#">E05F 3/20</a>
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## Special rules of classification within this group

If a closing force to the hinge and respective wing is provided over a substantial part of its travel, [E05F 1/06](#) or [E05F 1/12](#) apply; if furthermore an integrated braking device is present, [E05F 3/20](#) applies.

Also, if a non-integrated braking device, adapted for use with such a hinge, is at hand, [E05F 5/006](#) applies as well.

## E05D 11/1028

**[N: for maintaining the hinge in two or more positions, e.g. intermediate or fully open]**

### Definition statement

*This subclass/group covers:*

Hinges with devices for preventing movement between relatively-moveable hinge parts by biasing said hinge parts into intermediate or open positions.

## Relationship between large subject matter areas

Hinges with devices for preventing movement between relatively-moveable hinge parts by biasing said hinge parts into a single pre-determined, e.g. closed, position, in [E05D 11/1014](#)

## E05D 11/1057

**specially adapted for vehicles**

## References relevant to classification in this group

*This subclass/group does not cover:*

Hinges featuring coil springs acting perpendicularly to the pivot axis in order to maintain the hinge (and wing) in predetermined positions	<a href="#">E05D 11/1064</a>
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## E05D 13/00

**Accessories for sliding or lifting wings, e.g. pulleys, safety catches ([N: closers or openers for horizontally sliding wings E05F1/02, E05F1/08]; counterbalance devices [N: for swinging wings] E05F1/00, E05F3/00 )**

### Definition statement

*This subclass/group covers:*

Accessories for sliding or lifting wings such as pulleys, anti-dropping devices, hold-open devices and weight counterbalance devices.

### Relationship between large subject matter areas

- Counterbalance devices for swinging wings in [E05F 1/00](#) and in [E05F 3/00](#)
- Details of suspension or supporting guides of sliding or lifting wings in [E05D 15/0621](#) and in [E05D 15/165](#).

### References relevant to classification in this group

*This subclass/group does not cover:*

Accessories for hinges	<a href="#">E05D 11/00</a>
Stops and buffers for sliding wings	<a href="#">E05F 5/003</a>
Aligning devices for wings	<a href="#">E05F 7/005</a>
Devices to prevent rattling	<a href="#">E05F 7/04</a>

### Informative references

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

Closers and openers for horizontally sliding wings	<a href="#">E05F 1/02</a> , <a href="#">E05F 1/08</a>
Details of suspension or supporting guides of sliding or lifting wings	<a href="#">E05D 15/0621</a> , <a href="#">E05D 15/165</a>

### Special rules of classification within this group

It is noted that the main group [E05D 13/00](#) contains a large number of older documents that were classified administratively. These documents have not yet been reclassified to the sub-groups of [E05D 13/00](#) and are indexed with [E05Y 2800/00](#). The presence of these documents should not be construed as an indicator to classify similar documents in [E05D 13/00](#). Rather, the sub-groups always take precedence.

## **E05D 13/003**

**[N: Anti-dropping devices (E05D13/1223, E05D13/1246, E05D13/1269, E05D13/1292 take precedence)]**

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Spring safety catches in counterbalance devices for sliding or lifting wings	<a href="#">E05D 13/1223</a> , <a href="#">E05D 13/1246</a> , <a href="#">E05D 13/1269</a> , <a href="#">E05D 13/1292</a>
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## **E05D 13/1215**

**[N: specially adapted for overhead wings (E05D13/1223 takes precedence)]**

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Spring safety catches in counterbalance devices for sliding or lifting wings	<a href="#">E05D 13/1223</a>
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## **E05D 13/1238**

**[N: specially adapted for overhead wings (E05D13/1246 takes precedence)]**

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Spring safety catches in counterbalance devices for sliding or lifting wings	<a href="#">E05D 13/1246</a>
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## E05D 13/1261

[N: specially adapted for overhead wings (E05D13/1269 takes precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Spring safety catches in counterbalance devices for sliding or lifting wings	<a href="#">E05D 13/1269</a>
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## E05D 13/1276

[N: with coiled ribbon springs, e.g. constant force springs (E05D13/1253 takes precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Canted-coil torsion springs	<a href="#">E05D 13/1253</a>
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## E05D 13/1284

[N: specially adapted for overhead wings (E05D13/1292 takes precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Spring safety catches in counterbalance devices for sliding or lifting wings	<a href="#">E05D 13/1292</a>
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## E05D 15/00

Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means E06B3/32)

## Definition statement

*This subclass/group covers:*

Arrangements of doors, windows, flaps or other wings, characterised by the construction of the suspending or supporting means; suspending or supporting means for doors, windows, flaps or other wings producing wing motions other than simple pivoting, e.g. revolving, sliding, combined or alternative motions.

## Relationship between large subject matter areas

- Arrangements of doors, windows, flaps or other wings not characterized by the construction of the suspending or supporting means in [E06B 3/32](#)
- Hinges producing wing motions other than simple pivoting in [E05D 3/06](#)

## References relevant to classification in this group

*This subclass/group does not cover:*

Hinges per se	<a href="#">E05D 3/00</a> , <a href="#">E05D 7/00</a>
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## Special rules of classification within this group

The arrangements for doors, windows, flaps or other wings covered in this group relate especially to suspending or supporting doors, windows, flaps or other wings other than by hinges alone. These arrangements typically produce wing motions other than simple pivoting, e.g. revolving, sliding, combined or alternative motions. However, if such a wing motion is produced by the construction of the hinge per se, e.g. by a furniture hinge with four pins and two arms, [E05D 3/06](#) takes precedence. In cases where it proves difficult to clearly distinguish whether a hinge or a suspension arrangement for a wing is at hand, both [E05D 3/06](#) and [E05D 15/00](#) may be used simultaneously.

Furthermore, it is noted that the main group [E05D 15/00](#) contains a large number of older documents that were classified administratively. These documents have not yet been reclassified to the sub-groups of [E05D 15/00](#) and are indexed with [E05Y 2800/00](#). The presence of these documents should not be construed as an indicator to classify similar documents in [E05D 15/00](#). Rather, the sub-groups always take precedence.

## E05D 15/0604

**[N: allowing an additional movement (E05D15/10 takes precedence; raising wings before sliding E05D15/565 )]**

## Definition statement

*This subclass/group covers:*

Suspension arrangements for wings sliding horizontally, allowing an additional movement such as pivoting of the wing.

### References relevant to classification in this group

*This subclass/group does not cover:*

Wings movable out of one plane into a second parallel plane	<a href="#">E05D 15/10</a>
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### Informative references

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

Wings that rise before sliding	<a href="#">E05D 15/565</a>
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## E05D 15/0621

**[N: Details, e.g. suspension or supporting guides  
(E05D15/0604, E05D15/08 to E05D15/14 take precedence)]**

### Definition statement

*This subclass/group covers:*

Details of suspension arrangements for wings sliding horizontally such as suspension and guiding tracks, sliding blocks, rollers, trolleys, and height adjustment.

### References relevant to classification in this group

*This subclass/group does not cover:*

Suspension or supporting arrangements for wings with an additional movement besides horizontal sliding	<a href="#">E05D 15/0604</a> , <a href="#">E05D 15/08</a> to <a href="#">E05D 15/14</a>
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## E05D 15/0652

**[N: Tracks (E05D15/063 to E05D15/0647 and E05D15/0656 take precedence)]**

## Definition statement

*This subclass/group covers:*

Track arrangements for horizontally sliding wings suspended at the top of the wing.

## References relevant to classification in this group

*This subclass/group does not cover:*

Details of the suspension arrangement of top-suspended horizontally sliding wings related to wheels, rollers, and sliding blocks	<a href="#">E05D 15/063</a> to <a href="#">E05D 15/0647</a>
Details of the suspension arrangement of top-suspended horizontally sliding wings related to bottom wing guides	<a href="#">E05D 15/0656</a>

## E05D 15/0686

**[N: Tracks (E05D15/06D2B to E05D15/0682 and E05D15/0691 take precedence)]**

## Definition statement

*This subclass/group covers:*

Track arrangements for horizontally sliding wings supported at the bottom of the wing.

## References relevant to classification in this group

*This subclass/group does not cover:*

Details of the support arrangement of bottom-supported horizontally sliding wings related to wheels, rollers, and sliding blocks	<a href="#">E05D 15/0665</a> to <a href="#">E05D 15/0682</a>
Details of the support arrangement of bottom-supported horizontally sliding wings related to top wing guides	<a href="#">E05D 15/0691</a>

## E05D 15/1002

**[N: specially adapted for use in railway-cars or mass transit vehicles (E05D15/1007, E05D15/1023, E05D15/1044, E05D15/1068 take precedence)]**

### **Definition statement**

*This subclass/group covers:*

Suspension arrangements for wings sliding horizontally and movable out of a plane into a second parallel plane, such as plug doors.

### **References relevant to classification in this group**

*This subclass/group does not cover:*

Mass transit vehicle wings movable out of one plane into a second parallel plane, the wing being supported on arms movable in horizontal planes	<a href="#">E05D 15/1007</a>
Mass transit vehicle wings movable out of one plane into a second parallel plane, the wing being movable in a further (third) direction	<a href="#">E05D 15/1023</a>
Mass transit vehicle wings movable out of one plane into a second parallel plane by means of a transversely moving carriage	<a href="#">E05D 15/1044</a>
Mass transit vehicle wings movable out of one plane into a second parallel plane by means of a transversely moving track	<a href="#">E05D 15/1068</a>

## **E05D 15/101**

**[N: specially adapted for vehicles (E05D15/1007 takes precedence)]**

### **Definition statement**

*This subclass/group covers:*

Suspension arrangements specially adapted for vehicle doors/wings sliding horizontally and movable out of a plane into a second parallel plane, the wing being supported on arms movable in horizontal planes.

## References relevant to classification in this group

*This subclass/group does not cover:*

Railway-cars or mass transit vehicles	<a href="#">E05D 15/1007</a>
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## E05D 15/1042

**[N: with transversely moving carriage (E05D15/1065 takes precedence)]**

### Definition statement

*This subclass/group covers:*

Suspension arrangements for wings sliding horizontally and additionally transversely moving out of a plane into a second parallel plane, the wing being supported on a transversely moving carriage.

## References relevant to classification in this group

*This subclass/group does not cover:*

Wings movable out of one plane into a second parallel plane by means of a transversely moving track	<a href="#">E05D 15/1065</a>
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## E05D 15/1047

**[N: specially adapted for vehicles (E05D15/1044 takes precedence)]**

### Definition statement

*This subclass/group covers:*

Suspension arrangements specially adapted for vehicle doors/wings sliding horizontally and additionally transversely moving out of a plane into a second parallel plane, the wing being supported on a transversely moving carriage.

## References relevant to classification in this group

*This subclass/group does not cover:*

Railway-cars or mass transit vehicles	<a href="#">E05D 15/1044</a>
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## E05D 15/1081

[N: specially adapted for vehicles (E05D15/1068 takes precedence)]

### Definition statement

*This subclass/group covers:*

Suspension arrangements specially adapted for vehicle doors/wings sliding horizontally and additionally transversely moving out of a plane into a second parallel plane, the wing being supported on a transversely moving track.

### References relevant to classification in this group

*This subclass/group does not cover:*

Railway-cars or mass transit vehicles	<a href="#">E05D 15/1068</a>
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## E05D 15/165

[N: Details, e.g. sliding or rolling guides (E05D15/18 to E05D15/24 take precedence)]

### Definition statement

*This subclass/group covers:*

Details of suspension arrangements for wings sliding vertically such as guiding tracks, sliding blocks, rollers, and trolleys.

### References relevant to classification in this group

*This subclass/group does not cover:*

Arrangements consisting of wings of two or more independent parts, movable vertically each in its own guides	<a href="#">E05D 15/18</a>
Arrangements of wings movable out of one plane into a second parallel plane	<a href="#">E05D 15/20</a>
Arrangements of wings having an additional movement	<a href="#">E05D 15/22</a>
Arrangements of multi-part wings related to the connection between the	<a href="#">E05D 15/24</a>

wing parts and the guiding arrangements of the wing parts	
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## E05D 15/22

allowing an additional movement [N: (E05D15/20 takes precedence)]

### References relevant to classification in this group

*This subclass/group does not cover:*

Arrangements of wings movable out of one plane into a second parallel plane	<a href="#">E05D 15/20</a>
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## E05D 15/262

[N: folding vertically (E05D15/26B1, E05D15/26B2B take precedence)]

### Definition statement

*This subclass/group covers:*

Suspension arrangements for wings folding vertically, i.e. panels/wings folding upwardly about horizontal fold-lines.

### References relevant to classification in this group

*This subclass/group does not cover:*

Bi-fold wings	<a href="#">E05D 15/26B1</a> , <a href="#">E05D 15/26B2B</a>
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### Glossary of terms

*In this subclass/group, the following terms (or expressions) are used with the meaning indicated:*

Wings folding vertically	wings folding upwardly, i.e. folding about a horizontal fold-line
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## E05D 15/26B1

**N: folding vertically (E05D15/266 takes precedence)]**

### Definition statement

*This subclass/group covers:*

Suspension arrangements for bi-fold wings, i.e. wings consisting of a pair of foldable panels, folding vertically, i.e. two panels/wings folding upwardly about a horizontal fold-line.

### References relevant to classification in this group

*This subclass/group does not cover:*

Bi-fold wings comprising two pivots placed at opposite edges of the wing	<a href="#">E05D 15/266</a>
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## E05D 15/401

**[N: specially adapted for overhead wings (E05D15/403 to E05D15/46 take precedence)]**

### Definition statement

*This subclass/group covers:*

Suspension arrangements specially adapted for overhead wings, the wings being supported on arms movable in vertical planes.

### References relevant to classification in this group

*This subclass/group does not cover:*

Details of arms movable in vertical planes	<a href="#">E05D 15/403</a> to <a href="#">E05D 15/46</a>
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## E05D 15/406

**[N: with pivoted arms and sliding guides (E05D15/42, E05D15/44 take precedence)]**

### Definition statement

*This subclass/group covers:*

Suspension arrangements for wings supported on arms movable in vertical

planes, the arms being pivotably and slidably connected to the wing and/or frame.

### References relevant to classification in this group

*This subclass/group does not cover:*

Horizontally-sliding guides	<a href="#">E05D 15/42</a> , <a href="#">E05D 15/425</a>
Vertically-sliding guides	<a href="#">E05D 15/44</a> , <a href="#">E05D 15/445</a>

### E05D 15/48

**allowing alternative movements ([N: E05D15/0604 takes precedence]; for vertically-sliding wings E05D15/22 )**

### References relevant to classification in this group

*This subclass/group does not cover:*

Arrangements for wings sliding horizontally	<a href="#">E05D 15/0604</a>
Arrangements for wings sliding vertically	<a href="#">E05D 15/22</a>

### E05D 15/50

**for opening at either of two opposite edges [N: (hinges or pivots of special construction to allow easy separation or connection of the parts at the hinge axis E05D7/10; to allow easy detachment of the hinge from the wing or the frame E05D7/12 )]**

### Definition statement

*This subclass/group covers:*

Arrangements of doors, windows, flaps or other wings that can, in use, be opened selectively at either of two opposite edges.

### References relevant to classification in this group

*This subclass/group does not cover:*

Hinges or pivots of special	<a href="#">E05D 7/10</a>
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construction to allow easy separation or connection of the parts at the hinge axis (for easy mounting and de-mounting)	
Hinges allowing easy detachment from the wing or the frame (for easy mounting and de-mounting)	<a href="#">E05D 7/12</a>

### Special rules of classification within this group

If an easy separation or connection is used for facilitating selective mounting or de-mounting of a hinge, [E05D 7/10](#) and [E05D 7/12](#) should be used. In cases where it proves difficult to clearly distinguish whether a hinge or a suspension arrangement for a wing is at hand, both [E05D 15/50](#) and [E05D 7/12](#) may be used simultaneously.

### E05D 15/526

#### Safety devices

### References relevant to classification in this group

*This subclass/group does not cover:*

Tilt-lock devices	<a href="#">E05D 15/5217</a>
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### E05D 15/56

**with successive different movements [N: (raising wings before being turned E05F7/02 )]**

### Informative references

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

Arrangements for raising wings before being turned	<a href="#">E05F 7/02</a>
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### E05D 15/581

**[N: the swinging axis laying in the sliding direction (E05D15/1015 takes precedence)]**

### Definition statement

*This subclass/group covers:*

Suspension arrangements for wings performing successive swinging and sliding movements, wherein the swinging axis lies in the sliding direction.

### References relevant to classification in this group

*This subclass/group does not cover:*

Windows with an intermediate tilt position	<a href="#">E05D 15/1015</a>
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### E05D 15/582

[N: with horizontal swinging axis (E05D15/581 takes precedence)]

### Definition statement

*This subclass/group covers:*

Suspension arrangements for wings performing successive swinging and sliding movements, with a horizontal swinging axis.

### References relevant to classification in this group

*This subclass/group does not cover:*

Wings with the swinging axis laying in the sliding direction	<a href="#">E05D 15/581</a>
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