

E05D

HINGES OR SUSPENSION DEVICES FOR DOORS, WINDOWS OR WINGS (pivotal connections in general [F16C 11/00](#))

Definition statement

This place 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.

Relationships with other classification places

- 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

Limiting references

This place does not cover:

Arrangements for water-tight doors in ships	B63B 43/24
Heavy bearings in sluice gates	E02B 7/40
Self-closing hinges	E05F 1/06 , E05F 1/12 , E05F 3/20
Pivotal connections in general	F16C 11/00
Hinges for glasses	G02C 5/22
Hinges for folding parts of portable electronic devices	G06F 1/1615 , G06F 1/1633 , H04M 1/02

Informative references

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

Foldable tables	A47B 3/00
Hinged panels	A47B 5/00
Foldable chairs	A47C 4/00
Making hinges	B21D 53/40 , B21K 13/02
Making holes for taking-up fittings	B27F 5/12
Hinges for vehicle tailboards	B60P 1/26
Hinges for refuse receptacles	B65F 1/1646
Mounting of stove or range doors	F24C 15/023
Mounting of refrigerator doors	F25D 23/02

Special rules of classification

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

Carriage	Support element that supports the weight of a wing and transfers it directly to an underlying rail/track, on which it (the carriage) slides or rolls.
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
Overhead wings	Specific type of wings, wherein the wing can move into an overhead position, e.g. a garage door.
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 place 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.

Relationships with other classification places

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

Special rules of classification

[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 {([E05D 7/08](#) takes precedence)}

Definition statement

This place covers:

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

Relationships with other classification places

- 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

Limiting references

This place does not cover:

Spigots placed at opposite edges of the wing, e.g. trunnions	E05D 7/08
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Special rules of classification

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 ([E05D 7/08](#) takes precedence)

References

Limiting references

This place does not cover:

Spigots placed at opposite edges of the wing, e.g. trunnions	E05D 7/08
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E05D 3/142

{with at least one of the hinge parts having a cup-shaped fixing part, e.g. for attachment to cabinets or furniture ([E05D 11/1021](#) takes precedence)}

References

Limiting references

This place does not cover:

Hinges with devices for preventing movement between relatively-moveable hinge parts, e.g. hold-closed springs	E05D 11/1021
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E05D 5/00

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

Definition statement

This place 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.

Relationships with other classification places

- 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](#)

Relationships with other classification places

- 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 ([E05D 5/043](#), [E05D 5/062](#) take precedence)}

References

Limiting references

This place does not cover:

Flat flaps for attachment to vehicles	E05D 5/043
Bent flaps for attachment to vehicles	E05D 5/062

E05D 5/0276

{for attachment to cabinets or furniture, the hinge having two or more pins ([E05D 5/046](#), [E05D 5/065](#), [E05D 7/125](#) take precedence)}

References

Limiting references

This place does not cover:

Flat flaps for attachment to cabinets or furniture	E05D 5/046
Bent flaps for attachment to cabinets or furniture	E05D 5/065
Attachment parts to allow easy detachment of the hinge from the wing or frame	E05D 7/125

E05D 5/10

Pins, sockets or sleeves; Removable pins ([E05D 15/522](#) takes precedence)

References

Limiting references

This place does not cover:

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

{Non-removable, snap-fitted pins (removable snap-fitted pins [E05D 7/1022](#), [E05D 7/1055](#))}

References

Limiting references

This place does not cover:

Removable snap-fitted pins	E05D 7/1022 , E05D 7/1055
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E05D 5/127

{by forcing the pin into the socket ([E05D 5/125](#) takes precedence)}

References

Limiting references

This place does not cover:

Non-removable snap-fitted pins	E05D 5/125
Removable snap-fitted pins	E05D 7/1022 , E05D 7/1055

E05D 7/00

Hinges or pivots of special construction (used for special suspension arrangements [E05D 15/00](#); so as to be self-closing [E05F 1/06](#), [E05F 1/12](#); with means for raising wings before being turned [E05F 7/02](#))

Definition statement

This place 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.

Relationships with other classification places

- 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

Limiting references

This place does not cover:

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

Informative references

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

Foldable tables	A47B 3/00
Hinged panels	A47B 5/00
Foldable chairs	A47C 4/00
Making hinges	B21D 53/40 , B21K 13/02
Making holes for taking-up fittings	B27F 5/12
Hinges for vehicle tailboards	B60P 1/26
Hinges for refuse receptacles	B65F 1/1646
Mounting of stove or range doors	F24C 15/023
Mounting of refrigerator doors	F25D 23/02
Hinges for folding parts of portable electronic devices	G06F 1/1615 , G06F 1/1633 , H04M 1/02

Special rules of classification

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 place, 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**{Adjustable hinges ([E05D 7/04](#) takes precedence)}****Definition statement***This place covers:*

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

References**Limiting references***This place does not cover:*

Hinges adjustable relative to the wing or the frame	E05D 7/04
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E05D 7/0423**{Screw-and-nut mechanisms ([E05D 7/0407](#), [E05D 7/043](#) take precedence)}****References****Limiting references***This place does not cover:*

Hinges with two or more pins, adapted for cabinets or furniture	E05D 7/0407
Hinges adjustable relative to the wing or the frame by means of dowel attachments	E05D 7/043

E05D 7/06**to allow tilting of the members****Glossary of terms***In this place, 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 {([E05D 15/266](#) takes precedence)}****References****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	E05D 15/266
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E05D 7/086

Braking devices structurally combined with hinges (braking devices for windows per se [E05F 5/00](#))

References**Informative references**

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

Braking devices for windows per se	E05F 5/00
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E05D 7/10

to allow easy separation {or connection} of the parts at the hinge axis ({[E05D 5/12](#) and [E05D 15/50](#) take precedence } ; substitutes for hinges [E05D 1/06](#))

References**Limiting references**

This place does not cover:

Hinges for disconnecting pins or pivoting parts in wings opening selectively about either of two opposite edges	E05D 15/50
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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	E05D 1/06
Means to secure pins in sockets, movable or not	E05D 5/12

E05D 7/1011

{biased by free springs ([E05D 7/1016](#) takes precedence)}

References**Limiting references**

This place does not cover:

Hinges allowing easy separation of the parts at the hinge axis by axially moving parts requiring a specific angular position	E05D 7/1016
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E05D 7/1044

{in an axial direction ([E05D 7/1005](#) takes precedence)}

References**Limiting references**

This place does not cover:

Hinges allowing easy separation of the parts at the hinge axis by axially moving parts	E05D 7/1005
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E05D 7/1061

{in a radial direction ([E05D 7/1005](#) takes precedence)}

References**Limiting references**

This place does not cover:

Hinges allowing easy separation of the parts at the hinge axis by axially moving parts	E05D 7/1005
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E05D 7/12

to allow easy detachment of the hinge from the wing or the frame {([E05D 15/507](#) takes precedence)}

References**Limiting references**

This place does not cover:

Hinges detachable from wings or frames for use with wings opening about either of two opposite edges	E05D 15/507
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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 place covers:

Hinge parts designed for making from a particular material.

Relationships with other classification places

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

E05D 9/005

{from plastics ([E05D 1/02](#) takes precedence)}

References

Limiting references

This place does not cover:

Pinless hinges made from one (elastically deformable) piece	E05D 1/02
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E05D 11/00

Additional features or accessories of hinges {(edge protecting devices [E06B 3/88](#))}

Definition statement

This place 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.

Relationships with other classification places

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

Limiting references

This place does not cover:

Self-closing hinges	E05F 1/06 , E05F 1/12 , E05F 3/20
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Informative references

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

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

Special rules of classification

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

{Templates for marking the position of fittings on wings or frames (implements for making doors, windows or frames [E04F 21/003](#))}

References

Informative references

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

Implements for making doors, windows or frames	E04F 21/003
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E05D 11/04

relating to the use of free balls as bearing-surfaces ([E05D 7/06](#) takes precedence)

References

Limiting references

This place does not cover:

Hinges specially constructed to allow tilting of the members	E05D 7/06
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E05D 11/08

Friction devices between relatively-movable hinge parts ([E05D 7/086](#) takes precedence)

Definition statement

This place covers:

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

References

Limiting references

This place does not cover:

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

Glossary of terms

In this place, 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
Braking device	Devices constructed to slow down the movement of wings

E05D 11/1014

{for maintaining the hinge in only one position, e.g. closed}

Definition statement

This place 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.

Relationships with other classification places

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

Limiting references

This place does not cover:

Self-closing hinges	E05F 1/06 , E05F 1/12 , E05F 3/20
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Special rules of classification

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

{the hinge having two or more pins and being specially adapted for cabinets or furniture}

Definition statement

This place 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

Limiting references

This place does not cover:

Self-closing hinges	E05F 1/06 , E05F 1/12 , E05F 3/20
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Special rules of classification

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

{for maintaining the hinge in two or more positions, e.g. intermediate or fully open}

Definition statement

This place covers:

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

Relationships with other classification places

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 ([E05D 11/1064](#) takes precedence)}

References

Limiting references

This place does not cover:

Hinges featuring coil springs acting perpendicularly to the pivot axis in order to maintain the hinge (and wing) in predetermined positions	E05D 11/1064
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E05D 13/00

Accessories for sliding or lifting wings, e.g. pulleys, safety catches ({closers or openers for horizontally sliding wings [E05F 1/02](#), [E05F 1/08](#)}; counterbalance devices {for swinging wings} [E05F 1/00](#), [E05F 3/00](#))

Definition statement

This place covers:

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

Relationships with other classification places

- 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

Limiting references

This place does not cover:

Accessories for hinges	E05D 11/00
Stops and buffers for sliding wings	E05F 5/003
Aligning devices for wings	E05F 7/005
Devices to prevent rattling	E05F 7/04

Informative references

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

Details of suspension or supporting guides of sliding or lifting wings	E05D 15/0621 , E05D 15/165
Closers and openers for horizontally sliding wings	E05F 1/02 , E05F 1/08

Special rules of classification

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

{Anti-dropping devices ([E05D 13/1223](#), [E05D 13/1246](#), [E05D 13/1269](#), [E05D 13/1292](#) take precedence)}

References

Limiting references

This place does not cover:

Spring safety catches in counterbalance devices for sliding or lifting wings	E05D 13/1223 , E05D 13/1246 , E05D 13/1269 , E05D 13/1292
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E05D 13/1215

{specially adapted for overhead wings ([E05D 13/1223](#) takes precedence)}

References

Limiting references

This place does not cover:

Spring safety catches in counterbalance devices for sliding or lifting wings	E05D 13/1223
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E05D 13/1238

{specially adapted for overhead wings ([E05D 13/1246](#) takes precedence)}

References**Limiting references**

This place does not cover:

Spring safety catches in counterbalance devices for sliding or lifting wings	E05D 13/1246
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E05D 13/1261

{specially adapted for overhead wings ([E05D 13/1269](#) takes precedence)}

References**Limiting references**

This place does not cover:

Spring safety catches in counterbalance devices for sliding or lifting wings	E05D 13/1269
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E05D 13/1276

{with coiled ribbon springs, e.g. constant force springs ([E05D 13/1253](#) takes precedence)}

References**Limiting references**

This place does not cover:

Canted-coil torsion springs	E05D 13/1253
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E05D 13/1284

{specially adapted for overhead wings ([E05D 13/1292](#) takes precedence)}

References**Limiting references**

This place does not cover:

Spring safety catches in counterbalance devices for sliding or lifting wings	E05D 13/1292
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E05D 15/00

Suspension arrangements for wings (arrangements of wings not characterised by the construction of the supporting means [E06B 3/32](#))

Definition statement

This place 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.

Relationships with other classification places

- 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

Limiting references

This place does not cover:

Hinges per se	E05D 3/00 , E05D 7/00
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Special rules of classification

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

{allowing an additional movement ([E05D 15/10](#) takes precedence; raising wings before sliding [E05D 15/565](#))}

Definition statement

This place covers:

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

References

Limiting references

This place does not cover:

Wings movable out of one plane into a second parallel plane	E05D 15/10
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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	E05D 15/565
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E05D 15/0621

{Details, e.g. suspension or supporting guides ([E05D 15/0604](#), [E05D 15/08](#) - [E05D 15/14](#) take precedence)}

Definition statement

This place covers:

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

References

Limiting references

This place does not cover:

Suspension or supporting arrangements for wings with an additional movement besides horizontal sliding	E05D 15/0604 , E05D 15/08 - E05D 15/14
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E05D 15/0652

{Tracks ([E05D 15/063](#) - [E05D 15/0647](#) and [E05D 15/0656](#) take precedence)}

Definition statement

This place covers:

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

References

Limiting references

This place does not cover:

Details of the suspension arrangement of top-suspended horizontally sliding wings related to wheels, rollers, and sliding blocks	E05D 15/063 - E05D 15/0647
Details of the suspension arrangement of top-suspended horizontally sliding wings related to bottom wing guides	E05D 15/0656

E05D 15/0686

{Tracks ([E05D 15/0665](#) - [E05D 15/0682](#) and [E05D 15/0691](#) take precedence)}

Definition statement

This place covers:

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

References**Limiting references**

This place does not cover:

Details of the support arrangement of bottom-supported horizontally sliding wings related to wheels, rollers, and sliding blocks	E05D 15/0665 - E05D 15/0682
Details of the support arrangement of bottom-supported horizontally sliding wings related to top wing guides	E05D 15/0691

E05D 15/1002

{specially adapted for use in railway-cars or mass transit vehicles
([E05D 15/1007](#), [E05D 15/1023](#), [E05D 15/1044](#), [E05D 15/1068](#) take precedence)}

Definition statement

This place covers:

Suspension arrangements for wings used in railway-cars or mass transit vehicles, the wings sliding horizontally and movable out of a plane into a second parallel plane, e.g. plug doors.

References**Limiting references**

This place 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	E05D 15/1007
Mass transit vehicle wings movable out of one plane into a second parallel plane, the wing being movable in a further (third) direction	E05D 15/1023
Mass transit vehicle wings movable out of one plane into a second parallel plane by means of a transversely moving carriage	E05D 15/1044
Mass transit vehicle wings movable out of one plane into a second parallel plane by means of a transversely moving track	E05D 15/1068

E05D 15/101

{specially adapted for vehicles ([E05D 15/1007](#) takes precedence)}

Definition statement

This place covers:

Suspension arrangements used 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

Limiting references

This place does not cover:

Railway-cars or mass transit vehicles	E05D 15/1007
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E05D 15/1042

{with transversely moving carriage ([E05D 15/1065](#) takes precedence)}

Definition statement

This place 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 moving carriage that performs a movement comprising a transverse component.

References

Limiting references

This place does not cover:

Wings movable out of one plane into a second parallel plane by means of a transversely moving track	E05D 15/1065
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E05D 15/1047

{specially adapted for vehicles ([E05D 15/1044](#) takes precedence)}

Definition statement

This place covers:

Suspension arrangements used 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

Limiting references

This place does not cover:

Railway-cars or mass transit vehicles	E05D 15/1044
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E05D 15/1081

{specially adapted for vehicles ([E05D 15/1068](#) takes precedence)}

Definition statement

This place covers:

Suspension arrangements used 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

Limiting references

This place does not cover:

Railway-cars or mass transit vehicles	E05D 15/1068
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E05D 15/165

{Details, e.g. sliding or rolling guides ([E05D 15/18](#) - [E05D 15/24](#) take precedence)}

Definition statement

This place covers:

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

References

Limiting references

This place does not cover:

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

E05D 15/22

allowing an additional movement {([E05D 15/20](#) takes precedence)}

References

Limiting references

This place does not cover:

Arrangements of wings movable out of one plane into a second parallel plane	E05D 15/20
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E05D 15/262

{folding vertically}

Definition statement

This place covers:

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

Glossary of terms

In this place, 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 15/401

{specially adapted for overhead wings ([E05D 15/403](#) - [E05D 15/46](#) take precedence)}

Definition statement

This place covers:

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

References

Limiting references

This place does not cover:

Details of arms movable in vertical planes	E05D 15/403 - E05D 15/46
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E05D 15/406

{with pivoted arms and sliding guides ([E05D 15/42](#), [E05D 15/44](#) take precedence)}

Definition statement

This place 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

Limiting references

This place does not cover:

Horizontally-sliding guides	E05D 15/42 , E05D 15/425
Vertically-sliding guides	E05D 15/44 , E05D 15/445

E05D 15/48

allowing alternative movements ({[E05D 15/0604](#) takes precedence } ; for vertically-sliding wings [E05D 15/22](#))

References

Limiting references

This place does not cover:

Arrangements for wings sliding horizontally	E05D 15/0604
Arrangements for wings sliding vertically	E05D 15/22

E05D 15/50

for opening at either of two opposite edges {(hinges or pivots of special construction to allow easy separation or connection of the parts at the hinge axis [E05D 7/10](#); to allow easy detachment of the hinge from the wing or the frame [E05D 7/12](#))}

Definition statement

This place covers:

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

References

Limiting references

This place does not cover:

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

Special rules of classification

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 {([E05D 15/5217](#) takes precedence)}

References

Limiting references

This place does not cover:

Tilt-lock devices	E05D 15/5217
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E05D 15/56

with successive different movements {(raising wings before being turned [E05F 7/02](#))}

References**Informative references**

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

Arrangements for raising wings before being turned	E05F 7/02
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E05D 15/581

{the swinging axis laying in the sliding direction ([E05D 15/1015](#) takes precedence)}

Definition statement

This place covers:

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

References**Limiting references**

This place does not cover:

Windows with an intermediate tilt position	E05D 15/1015
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E05D 15/582

{with horizontal swinging axis ([E05D 15/581](#) takes precedence)}

Definition statement

This place covers:

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

References**Limiting references**

This place does not cover:

Wings with the swinging axis laying in the sliding direction	E05D 15/581
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