

E04F

FINISHING WORK ON BUILDINGS, e.g. STAIRS, FLOORS (windows, doors E06B)

Definition statement

This subclass/group covers:

This maingroup covers:

Finishing work on buildings, like:- sunshades, Florentine blinds, awnings, outside screens ([E04F 10/00](#));- fixed and moveable stairways, ramps, balustrades, handrails ([E04F 11/00](#));- coverings or linings for walls or ceilings ([E04F 13/00](#));- floor coverings, parquet, sectional false floors ([E04F 15/00](#)); - vertical ducts, chimneys, air ducts, light shafts, lift shafts, utility lines channels, disposal chutes, channels for drainage ([E04F 17/00](#));- borders, finishing strips, built-in cup-boards, niches ([E04F 19/00](#));- implements for finishing work on buildings, e.g. for mounting doors or windows, for mounting plinths, for plastering, for finishing joints, for setting wall or ceiling slabs, for laying floor coverings ([E04F 21/00](#))

References relevant to classification in this maingroup

This subclass/group does not cover:

This maingroup does not cover:

Windows, doors	E06B
Suspended ceilings	E04B 9/00
Ladders	E06C
Tapestry work	B44C
Roof coverings	E04D

Floor structures	E04B 5/00
Roof structures	E04B 7/00
Sanitary equipment	A47K
Kitchen equipment	A47J
Repairing	E04G

E04F 10/00

Sunshades, [N: e.g. Florentine blinds or jalousies; Outside screens (E06B9/26 takes precedence)]; Awnings [N: or baldachins (for caravans B60P3/343)]; (trailer awnings E04H15/08; for tents E04H15/58)

Definition statement

This subclass/group covers:

Sunshades, e.g. Florentine blinds or jalousies;

Screens on the outside of buildings which provide a shading function;

Outside shading elements mounted to the building;

Awnings; Baldachins

Relationship between large subject matter areas

This subgroup contains outdoor screens, which are designed withstand outside environmental changes, like wind, rain and snow. Screens mounted on the inner side of a window or door, so called indoor screens are classified in [E06B 9/24](#). Operating means for indoor and outdoor screens are classified in [E06B 9/68](#). Venetian-type lamellar outdoor and indoor screens are classified in [E06B 9/26](#). Free-standing screens which are not attached to the exterior of a building are classified in [E04H 15/00](#). Umbrellas in [A45B](#).

References relevant to classification in this group

This subclass/group does not cover:

Venetian-type lamellar screens	E06B 9/26
Operating means	E06B 9/68

Awnings for tents	E04H 15/58
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Informative references

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

Screening devices inside building	E06B 9/24
Roller blinds inside a building	E06B/40
Awnings for vessels	B63F 17/02
Awnings for caravans	B60P 3/343
Lamellar or like blinds, e.g. venetian blinds	E06B 9/26
Sunshades for a roof	E04D 13/00

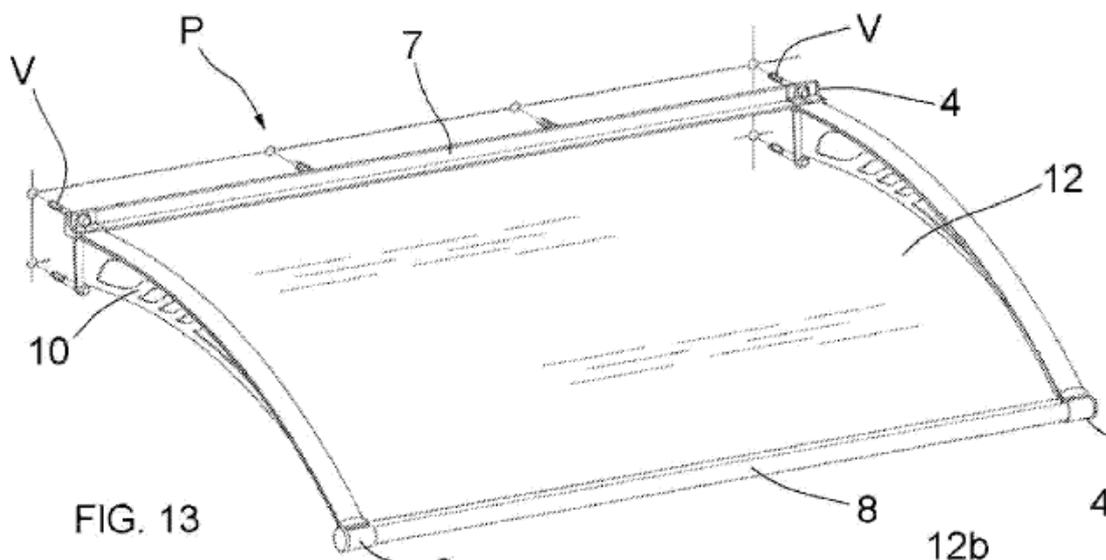
E04F 10/005

[N: Rigidly-arranged sunshade roofs with coherent surfaces]

Definition statement

This subclass/group covers:

This class contains shading elements for which the surface that provides the shading function is of a rigid inflexible material, e.g. plexiglass, metal.



References relevant to classification in this group

This subclass/group does not cover:

Gutters for roofs	E04D 13/064
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Special rules of classification within this group

Details which are not-specific to this kind of non-rollable/foldable surface (e.g. fixing to the supporting structure) should be classified in [E04F 10/06](#)

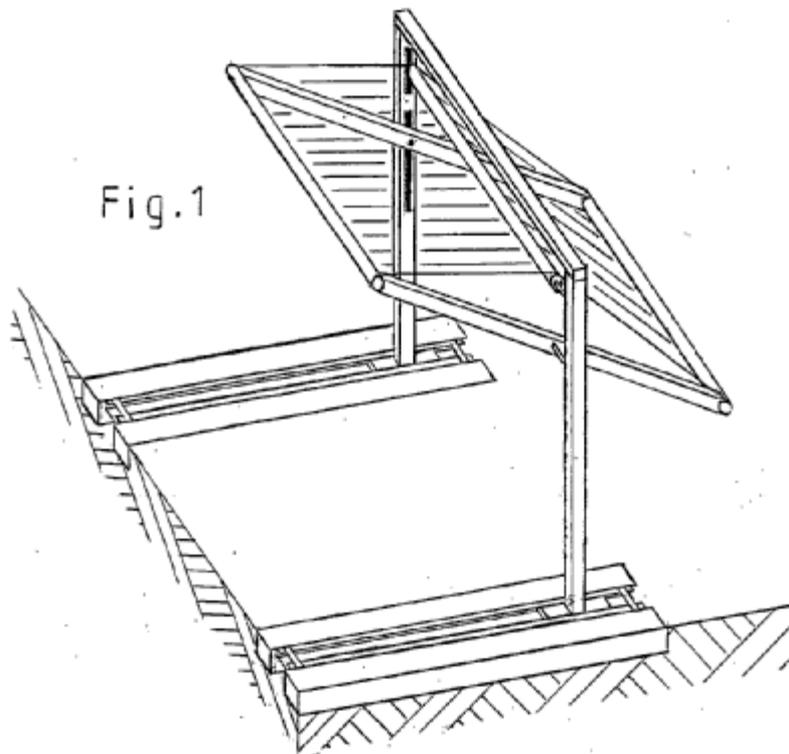
E04F 10/02

of flexible canopy materials, e.g. canvas; [N:Baldachins]

Definition statement

This subclass/group covers:

This class contains shading elements for which the surface that provides the shading function is of a flexible material, e.g. canvas



Special rules of classification within this group

Details which are not-specific to this kind of non-rollable/non-foldable surface

(e.g. fixing to the supporting structure) should be classified in [E04F 10/0603](#) to [E04F 10/0685](#)

E04F 10/08

**of a plurality of similar rigid parts, e.g. slabs, lamellae [N:
(E04F10/005 takes precedence)]**

Definition statement

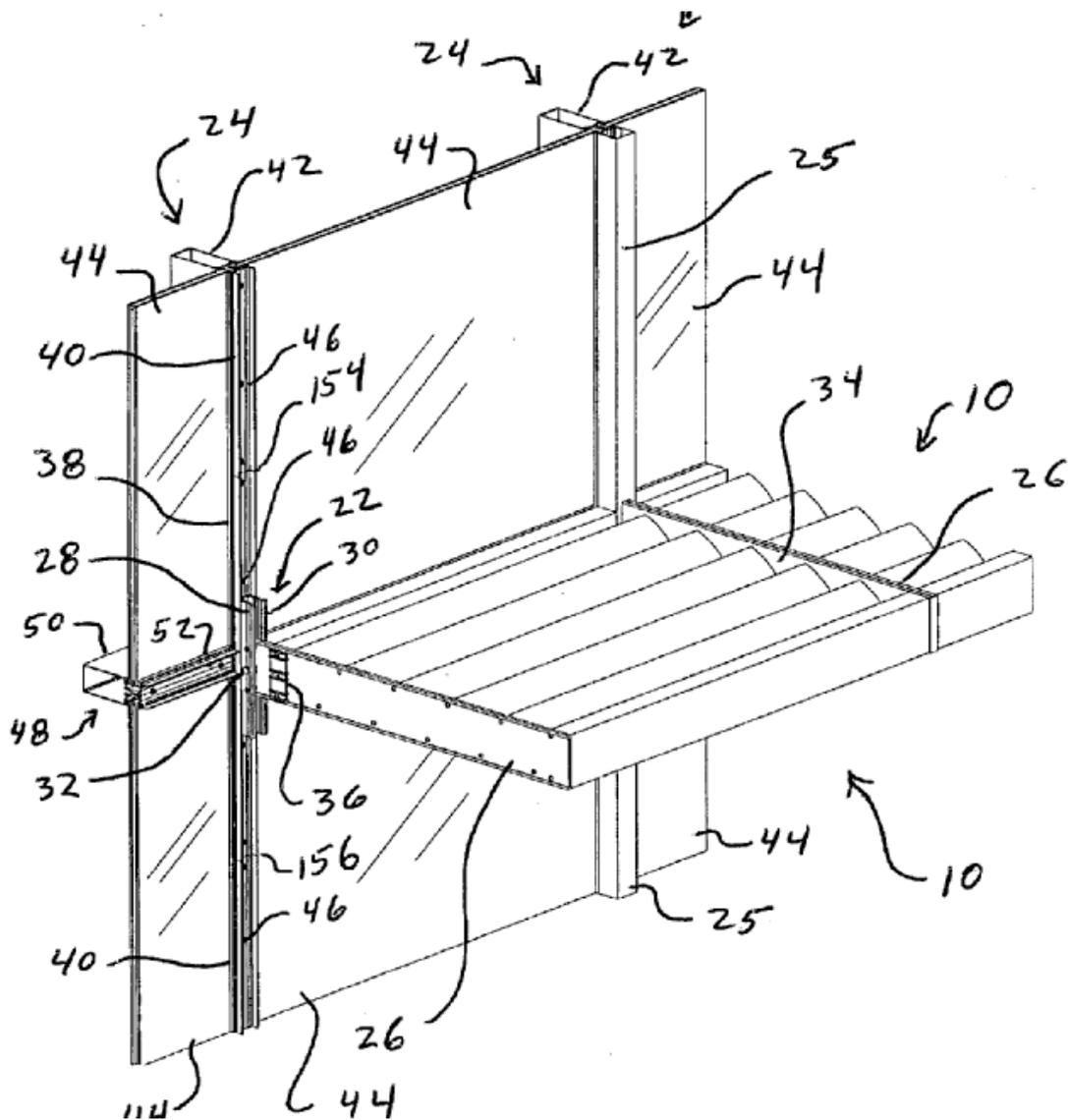
This subclass/group covers:

This class contains shading elements for which the surface that provides the shading function is of a series of rigid parts. e.g. lamellae

References relevant to classification in this group

This subclass/group does not cover:

Rigidly-arranged sunshade roofs with coherent surfaces	E04F 10/005
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E04F 10/10

collapsible or extensible; metallic Florentine blinds; awnings with movable parts such as louvres; (shutters E06B9/04; louvre windows E06B7/08)]

References relevant to classification in this group

This subclass/group does not cover:

Shutters	E06B 9/04
Louvre windows	E06B 7/08

E04F 11/00

Stairways, ramps, or like structures (mounting or marking-off stairways E04F21/26; of temporary [N: use during building] construction E04G27/00; means for facilitating access to swimming pools E04H4/144; [N: means for facilitating access to swimming pools E04H4/144; appliances for aiding patients or disabled persons to walk A61H3/00]); Balustrades; Handrails (ladders permanently attached to fixed structures E06C9/00)

Definition statement

This subclass/group covers:

Fixed stairways and movable stairways, e.g. loft ladders, and their components, e.g. treads and risers; Ramps; Balustrades; Handrails

References relevant to classification in this group

This subclass/group does not cover:

Mounting or marking-off stairways	E04F 21/26
Stairways of temporary use during building construction	E04G 27/00
Means for facilitating access to swimming pools	E04H 4/144
Ladders permanently attached to fixed structures	E06C 9/00
Appliances for aiding patients or disabled persons to walk	A61H 3/00

Informative references

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

Ladders	E06C
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E04F 11/032

Spiral stairways supported by a central column.

Definition statement

This subclass/group covers:

Only spiral stairways supported by a central column, where "by a central column" is to be read strictly

E04F 11/06

collapsible, e.g. folding, telescopic

References relevant to classification in this group

This subclass/group does not cover:

Ship ladders	B63B
Stairs for aircraft	B64F
Escalators or moving walkways	B66B

E04F 11/104

Treads.

Informative references

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

Layered products in general	B32B
Producing decorative panels or veneers	B44C 5/04

Special rules of classification within this group

Veneer panels should be classified in [E04F 11/108](#), i.e. of wood, as well as in [E04F 11/128](#), i.e. composed of several layers.

E04F 11/16

Surfaces thereof; Protecting means for edges or corners thereof. (loosely laid coverings A47G27/00)

References relevant to classification in this group

This subclass/group does not cover:

Loosely laid coverings, floor fabrics, fastenings therefor	A47G 27/00
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Informative references

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

Guard covers of stairs	E04G 21/30
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Special rules of classification within this group

Documents describing both aspects, i.e. surfaces and protecting means for edges or corners of treads, are classified in [E04F 11/16](#) only.

E04F 11/18

Balustrades; Handrails (guard-rails on ships B63B; for bridges E01D19/10; for roads E01F13/00, E01F15/00; fences E04H17/00; [N: safety measures for persons during the construction of buildings E04G21/32])

Definition statement

This subclass/group covers:

Balustrades, balcony balustrades, and handrails.

References relevant to classification in this group

This subclass/group does not cover:

Safety measures for persons during the construction of buildings, e.g. temporary balustrades	E04G 21/32
Balustrades not having a handrail, i.e. picket fences, fences	E04H 17/00
Guard-rails on ships	B63B 17/04
Handrails for bridges	E01D 19/10
Handrails for roads	E01F 13/00 , E01F 15/00

Informative references

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

Balustrades being an integral part of the structure of a balcony.	E04B 1/003
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E04F 11/181

Balustrades; Their mutual connections.

Special rules of classification within this group

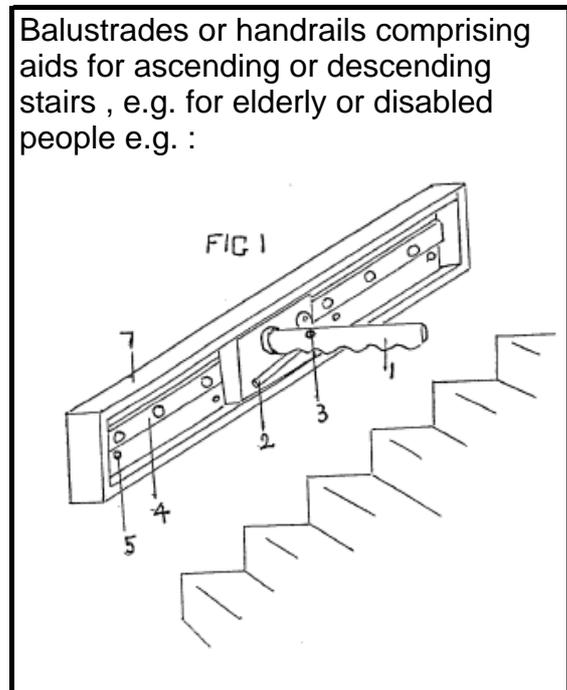
Use [E04F 11/1812](#) to [E04F 11/1851](#) to completely classify each aspect of the documents to be classified.

E04F 11/1863

[N: Built-in aids for ascending or descending stairs (lifts associated with stairs B66B9/08)]

Definition statement

This subclass/group covers:



References relevant to classification in this group

This subclass/group does not cover:

Lifts associated with stairs	B66B 9/08
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Informative references

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

Lifts or other hoisting devices on ladders	E06C 7/12
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E04F 13/00

Coverings or linings, e.g. for walls or ceilings (flooring E04F15/00; decoration of surfaces, mosaic work B44, e.g. paper-hanging B44C7/00; made of webs, e.g. of fabrics or wallpaper, [N: as such, or their manufacturing] D03D, D04G, D04H, D06N, D21H; construction of [N: false] ceilings E04B9/00 ; roofings or similar water-tight coverings against precipitation E04D)

Definition statement

This subclass/group covers:

Coverings or linings, e.g. for walls or ceilings, either made of plastic materials hardening after applying, like plaster, or composed of covering or lining elements and their fastening means.

References relevant to classification in this group

This subclass/group does not cover:

Flooring	E04F 15/00
Decoration of surfaces, mosaic work	B44C
Decoration of surfaces, paper-hanging	B44C 7/00
Webs, e.g. of fabrics or wallpaper, as such and their manufacturing	D03D , D04G , D04H , D06N , D21H
Construction of false ceilings	E04B 9/00

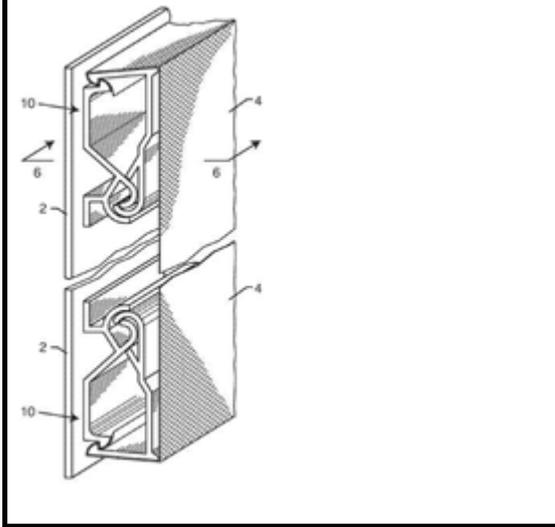
E04F 13/002

[N: made of webs, e.g. of fabrics, or wallpaper, used as coverings or linings (of a number of similar elements carried by a common web E04F13/0862; paperhanging, tapestry work B44C7/00)]

Definition statement

This subclass/group covers:

Coverings or linings, e.g. for walls or ceilings, made of webs, e.g. of fabrics, or wallpaper e.g. :



References relevant to classification in this group

This subclass/group does not cover:

Of a number of similar elements carried by a common web	E04F 13/0862
Paper-hanging and tapestry-work	B44C 7/00

E04F 13/02

of plastic materials hardening after applying, e.g. plaster (surface treatment in painting technique B44D; inorganic or bituminous masses C04B; organic plastics C08L) [N: implements for applying plasticised materials E04F21/02]

References relevant to classification in this group

This subclass/group does not cover:

Surface treatment in painting technique	B44D
Inorganic or bituminous masses	C04B
Organic plastics	C08L
Implements for applying plasticised materials	E04F 21/02

E04F 13/04

Bases for plaster (sub-ceilings with plaster-carrying means E04B9/06)

References relevant to classification in this group

This subclass/group does not cover:

Sub-ceilings with plaster-carrying means	E04B 9/06
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E04F 13/06

Edge-protecting borders [N: (borders for joints between plaster layers and window or door frames or like E06B1/62)]

References relevant to classification in this group

This subclass/group does not cover:

Borders for joints between plaster layers and window or door frames or the like	E06B 1/62
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E04F 13/072

composed of specially adapted, structured or shaped covering or lining elements

References relevant to classification in this group

This subclass/group does not cover:

Accommodating heating conduits	F24D
Accommodating electrical cables or lines	H02G 3/00
Accommodating lighting devices	F21V 33/006
For insulation or surface protection, e.g. against noise	E04B 1/00
Characterised by the joints between neighbouring elements	E04F 13/0889
Composed of several layers, e.g. sandwich panels	E04F 13/0866
Stretched foil- or web-like elements attached with edge gripping devices	E04F 13/005

Special rules of classification within this group

Sub-groups [E04F 13/074](#) to [E04F 13/078](#) are not used; documents are classified according to the table here above.

E04F 13/08

composed of a number of similar elements, e.g. carried by webs; [N: devices for aligning the elements] (of fabrics E04F13/20; borders, skirtings E04F19/02; fixing strip E04F19/06; [N: spacers between adjacent tiles E04F21/0092; implements or means for setting tiles E04F21/18])

References relevant to classification in this group

This subclass/group does not cover:

Elements of webs or fabrics	E04F 13/002
Specially adapted, structured or shaped covering or lining elements	E04F 13/072
Borders, skirtings	E04F 19/02

Fixing strips	E04F 19/06
Separate provisional spacers between adjacent tiles	E04F 21/0092
Implements or means for setting tiles	E04F 21/18

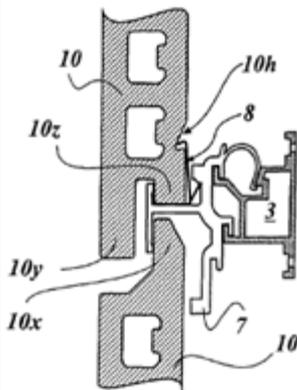
E04F 13/0812

[N: fixed by means of spring action]

Definition statement

This subclass/group covers:

Separate fastening elements for coverings composed of a plurality of similar covering elements, with load-supporting elongated furring elements between wall and covering elements, and with additional fastening elements between furring elements and covering elements, (any of the elements being) fixed by means of spring action, e.g. effecting a clamping, the spring element being integral to or separate from the other elements. e.g. : (spring 8)



Synonyms and Keywords

In patent documents the expression "snap action" is often used with the meaning "spring action"

elements, (the fastening element being) not adjustable e.g. : no adjustment or compensation means for tolerances, inaccuracy, ... by means of screws, teeth, wedges,...

Special rules of classification within this group

Not used, see subgroups

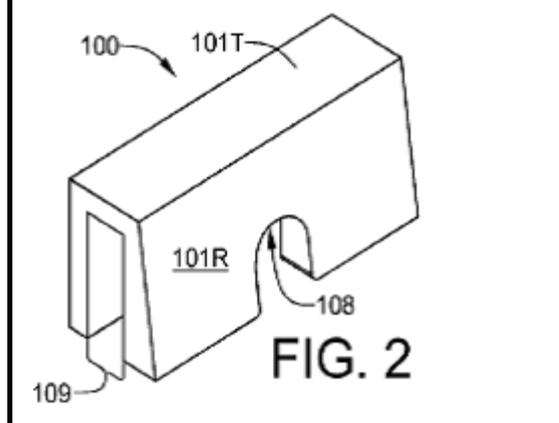
E04F 13/0841

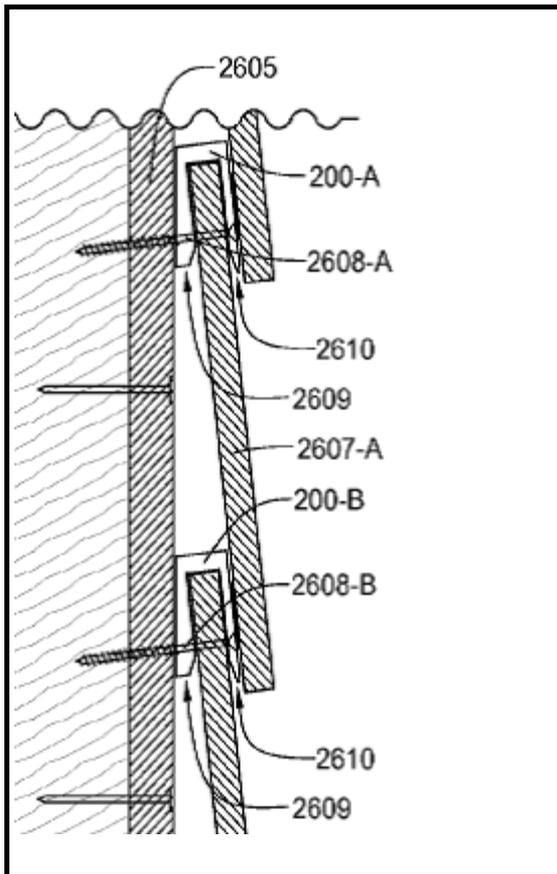
[N: with fastening elements retaining the edges of the covering elements (E04F13/0839 and E04F13/0846 take precedence)]

Definition statement

This subclass/group covers:

Separate fastening elements for coverings composed of a plurality of similar covering elements, without load-supporting elongated furring elements between wall and covering elements, not adjustable, and with fastening elements retaining the edges of the covering elements e.g. :





References relevant to classification in this group

This subclass/group does not cover:

The fastening elements situated at the corners of the covering elements, not extending through the covering	E04F 13/0839
The fastening elements engaging holes or grooves in the side faces of the covering elements	E04F 13/0846

E04F 13/0846

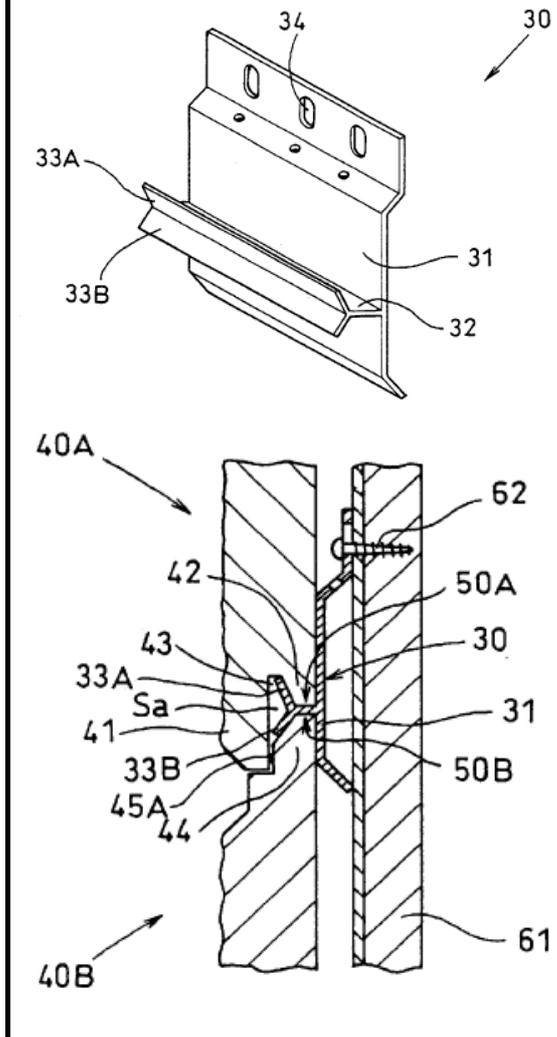
[N: with fastening elements engaging holes or grooves in the lateral edge side of the covering elements (E04F13/0835 and E04F13/0839 take precedence

Definition statement

This subclass/group covers:

Separate fastening elements for

coverings composed of a plurality of similar covering elements, without load-supporting elongated furring elements between wall and covering elements, not adjustable, and with fastening elements engaging holes or grooves in the lateral edge side of the covering elements e.g. :



References relevant to classification in this group

This subclass/group does not cover:

The fastening elements extending into the back side of the covering elements	E04F 13/0835
The fastening elements situated at the corners of the covering elements, and not extending through the covering	E04F 13/0839

E04F 13/0858

fixed by means of spring action

Synonyms and Keywords

In patent documents the expression "snap action" is often used with the meaning "spring action"

E04F 13/086

fixed by means of clamping action

Synonyms and Keywords

In patent documents the expression "holding tight" is often used with the meaning "clamping action"

E04F 13/0864

composed of superposed elements which overlap each other and of which the flat outer surface includes an acute angle with the surface to cover

Definition statement

This subclass/group covers:

Coverings or linings composed of superposed elements which overlap each other and of which the flat outer surface includes an acute angle with the surface to cover, where the expression "acute angle" is to be read strictly

References relevant to classification in this group

This subclass/group does not cover:

Case of absence of an acute angle	E04F 13/10 to E04F 13/18
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E04F 13/0866

composed of several layers, e.g. sandwich panels or layered panels

References relevant to classification in this group

This subclass/group does not cover:

Layered products as such in general	B32B
Producing decorative panels or veneers	B44C 5/04
Composed of superposed elements which overlap each other and of which the flat outer surface includes an acute angle with the surface to cover	E04F 13/0864
Having a basic insulating layer and at least one covering layer	E04F 13/0875

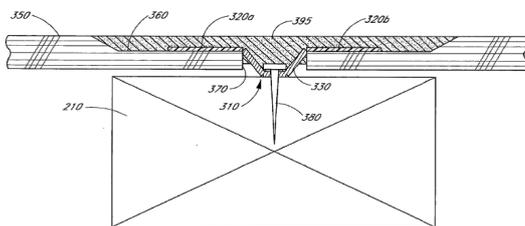
E04F 13/0898

[N: with sealing elements between coverings (sealings of joints between building constructions in general E04B1/68)]

Definition statement

This subclass/group covers:

Coverings composed of a plurality of similar covering elements, characterised by the joints between neighbouring elements, with sealing elements between coverings (regardless if the sealings are integral with the panel or separate elements)
e.g. :



References relevant to classification in this group

This subclass/group does not cover:

Sealing of joints between building constructions in general	E04B 1/68
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E04F 13/09

of elements attached to a common web, support plate or grid
[N: (not used, see E04F13/0862)]

Special rules of classification within this group

Not used, see [E04F 13/0862](#)

E04F 13/14

of glass or with an outer layer of stone or stone-like materials or glass[N: (E04F13/0864 takes precedence; producing shaped elements from concrete, ceramic compositions or other stone-like materials B28B; prefabricated panels in general E04C2/00)]

References relevant to classification in this group

This subclass/group does not cover:

Producing shaped elements from concrete, ceramic compositions or other stone-like materials	B28B
Prefabricated panels in general	E04C 2/00
Composed of superposed elements which overlap each other and of which the flat outer surface includes an acute angle with the surface to cover	E04F 13/0864

E04F 13/18

of organic plastics with or without reinforcements or filling materials (of plastic-bound fibres or chips E04F13/16) [N: with an outer layer of organic plastics with or without reinforcements or filling materials; plastic tiles] [N: E04F13/0864 takes precedence]

References relevant to classification in this group

This subclass/group does not cover:

Of plastic-bound fibres or chips	E04F 13/16
Composed of superposed elements which overlap each other and of which the flat outer surface includes an acute angle with the surface to cover	E04F 13/0864

E04F 13/21

Fastening means specially adapted for covering or lining elements Fastening means specially adapted for covering or lining elements [N: (not used, see E04F13/0801)] introduction of IPC class

Special rules of classification within this group

Sub-groups [E04F 13/21](#) to [E04F 13/30](#) are not used. Documents which fall under the title of sub-groups [E04F 13/21](#) to [E04F 13/28](#) are classified in [E04F 13/0801](#), documents falling under the title of [E04F 13/30](#) are classified in [E04F 13/0883](#). [E04F 13/30](#) takes precedence over [E04F 13/24](#).

E04F 15/00

Flooring (stair treads E04F11/104; coverings not specially adapted for floors E04F13/00; borders, skirtings E04F19/02; [N: implements for laying flooring E04F21/20;] gratings for cleaning soles of footwear A47L23/24; [N: built-in gratings E04F19/10; removing floor coverings E04G23/00; carpets A47G27/00;] of similar materials to roads E01C; basic or rough floors [N: , structural floors] E04B5/00)

Definition statement

This subclass/group covers:

Floor coverings, parquet, resiliently-mounted floors, joints in floor coverings, sectional false floors, e.g. computer floors

References relevant to classification in this group

This subclass/group does not cover:

Stair treads	E04F 11/104
Coverings not specially adapted for floors	E04F 13/00

Borders, skirting	E04F 19/02
Implements for laying flooring	E04F 21/20
Gratings for cleaning soles	A47L 23/24
Road paving	E01C
Structural floors	E04B 5/00
Built-in gratings	E04F 19/10
Removing floor coverings	E04G 23/00
Carpets	A47G 27/00

E04F 15/02

Flooring or floor layers composed of a number of similar elements (of webs E04F15/16)

References relevant to classification in this group

This subclass/group does not cover:

Flooring composed of webs	E04F 15/16
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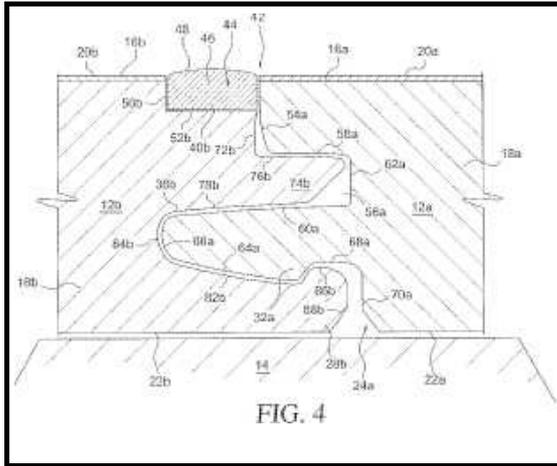
E04F 15/02005

[N: Construction of joints, e.g. dividing strips (E04F15/024, E04F15/04, E04F15/06, E04F15/10 and E04F15/14 take precedence; Separate provisional spacers E04F21/0092)]

Definition statement

This subclass/group covers:

Construction of joints for flooring composed of a number of similar elements, with sealing elements between coverings (regardless if the sealings are integral with the panel or separate elements) e.g. :
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References relevant to classification in this group

This subclass/group does not cover:

Sectional false-floors	E04F 15/024
Flooring only of wood	E04F 15/04
Flooring of metal	E04F 15/06
Flooring of other material	E04F 15/10
Construction of joints in flooring made of masses in situ	E04F 15/14
Separate provisional spacers	E04F 21/0092
Sealing of joints between building constructions in general	E04B 1/68

E04F 15/024

Sectional false floors, e.g. computer floors [N: (height-adjustable supports for terrace roof coverings E04D11/00; underfloor heating using water F24D3/142, using air F24D5/10; installation of cables, lines or protective tubing in floors H02G3/28)]

References relevant to classification in this group

This subclass/group does not cover:

Height-adjustable supports for terrace roof coverings	E04D 11/00
Underfloor heating using water	F24D 3/142
Underfloor heating using air	F24D 5/10
Installation of cables, lines or protective tubing in floors	H02G 3/28

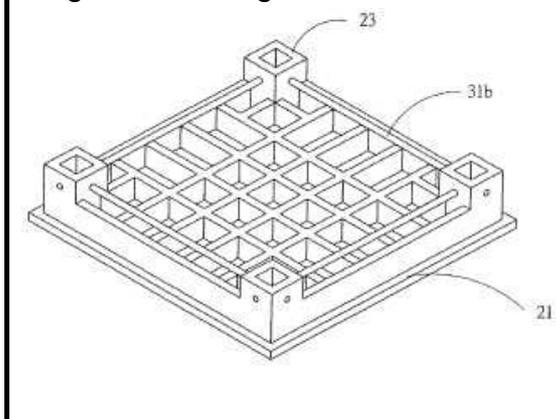
E04F 15/02411

[N: with integrated feet (E04F15/024B4 takes precedence)]

Definition statement

This subclass/group covers:

Sectional false floors composed of a number of similar elements, comprising floor panels with integrated feet e.g. :



References relevant to classification in this group

This subclass/group does not cover:

Floor panels made of casing elements filled with plastic materials hardening after application	E04F 15/02429
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E04F 15/04

only of wood [N: or with a top layer of wood], e.g. with wooden [N: or metal] connecting members (rollable parquet E04F15/16)

References relevant to classification in this group

This subclass/group does not cover:

Rollable parquet	E04F 15/16
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E04F 15/06

of metal, whether or not in combination with other material (gratings as building elements E04C2/42; [N: of elements with a metal upper layer; E04F15/02405 takes precedence; metal treads E04F11/112])

References relevant to classification in this group

This subclass/group does not cover:

Gratings as building elements	E04C 2/42
Metal treads	E04F 11/112
Floor panels for sectional false floors	E04F 15/02405

E04F 15/08

only of stone or stone-like material, e.g. ceramics, concrete; of glass or with a top layer of stone or stone-like material, e.g. ceramics, concrete, or glass

References relevant to classification in this group

This subclass/group does not cover:

Construction of joints in floorings	E04F 15/02005
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E04F 15/10

of other materials, e.g. fibrous or chipped materials, organic plastics, magnesite tiles, hardboard, [N:, or with a top layer of

other materials]

Informative references

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

Layered products	B32B
Producing decorative panels or veneers	B44C 5/04

E04F 15/12

Flooring or floor layers made of masses in situ, e.g. seamless magnesite floors, terrazzo [N: gypsum floors] (inorganic or bituminous masses C04B; organic plastic masses C08L)

Informative references

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

Inorganic or bituminous masses	C04B
Organic plastic masses	C08L
Structural floors	E04B 5/00
Filling elements for building-up floors	E04B 5/26
Installation of cables, lines or protective tubing in floors	H02G 3/28

E04F 15/14

Construction of joints, e.g. dividing strips ([N: E04F15/02005 takes precedence;] sealing joints not restricted to flooring E04B1/68, [N: construction of joints in roads or airfields E01C11/02])

References relevant to classification in this group

This subclass/group does not cover:

Construction of joints not restricted to flooring	E04B 1/68
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Construction of joints for floorings composed of a number of similar elements	E04F 15/02005
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Informative references

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

Construction of joints in roads and airfields	E01C 11/02
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E04F 15/16

Flooring, e.g. parquet on flexible web, laid as flexible webs; Webs specially adapted for use as flooring; [N: Parquet on flexible web] (resiliently-mounted floors, e.g. sprung floors, E04F15/22; linoleum D06N; [N: carpets A47G27/00])

References relevant to classification in this group

This subclass/group does not cover:

Resiliently mounted floors, e.g. sprung floors	E04F 15/22
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Informative references

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

Webs in general, manufacturing of webs	B65H
Linoleum	B32, D06N
Carpets	A47G 27/00

E04F 15/18

Separately-laid insulating layers; Other additional insulating measures; Floating floors (insulating of buildings in general

E04B1/62)

References relevant to classification in this group

This subclass/group does not cover:

Boundary strips in layers made of masses in situ	E04F 15/142
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Informative references

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

Insulating of buildings in general	E04B 1/62
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E04F 15/22

**Resiliently-mounted floors, e.g. sprung floors (laid as webs
E04F15/16)**

References relevant to classification in this group

This subclass/group does not cover:

Resiliently-mounted floors laid as webs	E04F 15/16
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E04F 17/00

Vertical ducts; Channels, e.g. for drainage (pipes in general F16L; pipe-line systems F17D; [N: drainage devices in floors E03F5/04; roof drainage E04D13/04])

Definition statement

This subclass/group covers:

Vertical ducts for carrying away gases, chimneys, air ducts, light shafts, channels for receiving utility lines, channels for drainage, chutes for the disposal of refuse, lift shafts.

Informative references

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

Drainage devices in floors	E03F 5/04
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Roof drainage	E04D 13/04
Pipes in general	F16L
Pipe-line systems	F17D

E04F 17/02

for carrying away waste gases, e.g. flue gases (free-standing chimneys E04H12/28; connections between fireplace and chimney, chimney fittings, covers for cleaning holes of chimneys F23J; chimney tops F23L); Building elements specially designed therefor, e.g. shaped bricks or sets thereof [N: (coke-ovens C10B; working measures on existing vertical ducts E04G23/02; apparatus for inserting new lining elements in existing ducts E04G21/16; metallic chimneys, linings, joints and spacers therefor F23J11/00, F23J13/00)]

References relevant to classification in this group

This subclass/group does not cover:

Free-standing chimneys	E04H 12/28
Connections between fireplace and chimney, chimney fittings, covers for cleaning holes for chimneys	F23J
Chimney tops	F23L
Coke-ovens	C10B
Working measures on existing vertical ducts	E04G 23/02
Apparatus for inserting new lining elements in existing ducts	E04G 21/16
Metallic chimneys, linings, joints and spacers therefor	F23J 11/00 ; F23J 13/00

E04F 17/026

[N: Exterior cladding, e.g. of chimney parts extending above the roof; Rain covers for chimney tops without draught-inducing aspects (inducing draught in chimneys F23L17/00)] [N9601]

Definition statement

This subclass/group covers:

Vertical ducts or channels for carrying away waste gases, e.g. flue gases comprising an exterior cladding, e.g. of chimney parts extending above the roof or rain covers for chimney tops without draught-inducing aspects e.g. :

FIG. 5

OR

References relevant to classification in this group

This subclass/group does not cover:

Inducing draught in chimneys	F23L 17/00
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E04F 17/04

Air-ducts or air channels [N: (heating in general F24; ventilating rooms in general F24F)]

Informative references

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

Heating in general	F24
Ventilating rooms in general	F24F

E04F 17/06

Light shafts, e.g. for cellars

Informative references

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

Daylight conveying tubular skylights	E04D 2013/034
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E04F 17/08

for receiving utility lines, e.g. cables, pipes (covers giving access to the ducts or channels, covers of inspection holes E04F19/08)

References relevant to classification in this group

This subclass/group does not cover:

Covers giving access to the ducts or channels, covers of inspection holes	E04F 19/08
Shafts or channels arranged underground outside buildings	E02D 29/10

E04F 17/10

Arrangements in buildings for the disposal of refuse (refuse bins, gathering or removal of refuse B65F)

References relevant to classification in this group

This subclass/group does not cover:

Refuse bins, gathering or removal of refuse	B65F
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E04F 19/00

Other details of constructional parts for finishing work on buildings (ladders, e.g. climbing irons, E06C9/04)

Definition statement

This subclass/group covers:

Borders, finishing strips, light-coves, built-in cup-boards, niches, covers of holes enabling access to installations, built-in gratings, chimney mantel pieces

References relevant to classification in this group

This subclass/group does not cover:

Borders for protecting edges of plaster	E04F 13/06
Climbing irons	E06C 9/04

E04F 19/02

Borders; Finishing strips, e.g. beadings; Light coves (for protecting edges of plaster E04F13/06)

References relevant to classification in this group

This subclass/group does not cover:

Borders for protecting edges of plaster	E04F 13/06
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Informative references

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

Lighting devices in general	F21V
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E04F 19/022

[N: for use at vertical intersections of walls (E04F19/028 takes precedence)]

References relevant to classification in this group

This subclass/group does not cover:

Borders adapted for cushioning impacts at protruding corners	E04F 19/028
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E04F 19/04

for use between floor or ceiling and wall, e.g. skirtings

Informative references

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

Edge details of ceilings	E04B 9/30
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E04F 19/0459

[N: characterised by the fixing method (not used, see subgroups)]

Definition statement

This subclass/group covers:

Borders or finishing strips

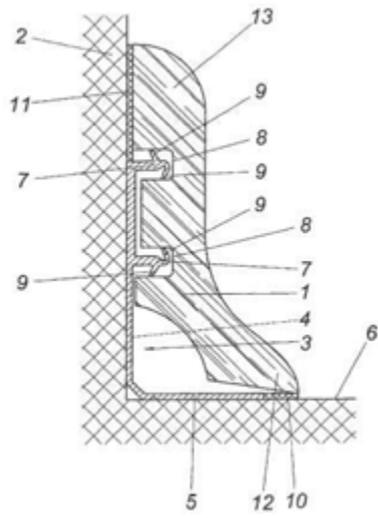
for use between floor or ceiling and wall, e.g. skirtings

characterised by the fixing method (group not used, see subgroups)

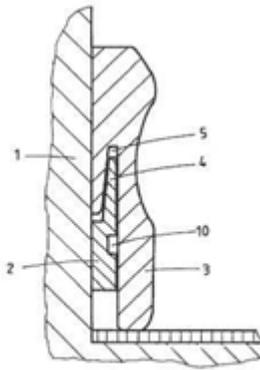
e.g. by hooking in a direction perpendicular ([E04F 19/0463](#)) or parallel ([E04F 19/0468](#)) to the wall, by means of magnets or hook and loop-type fasteners ([E04F 19/0472](#)), by means of glue ([E04F 19/0477](#)):

04F1 04F2

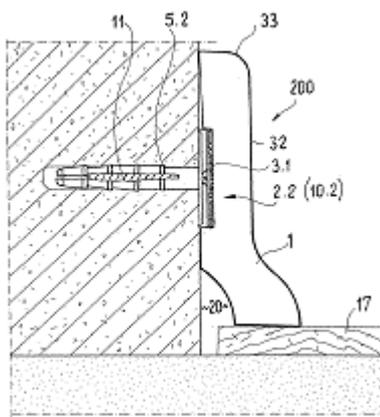
04F3 04F4



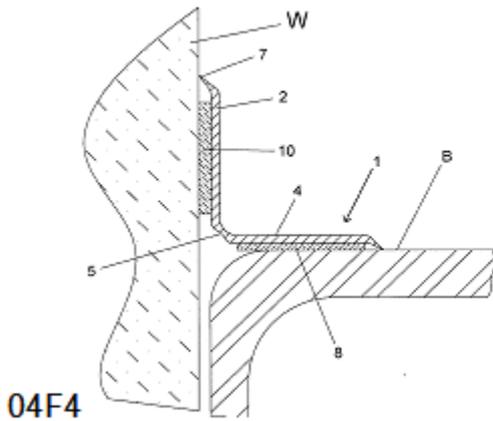
04F1



04F2



04F3



Special rules of classification within this group

Only the subgroups of this group are used

E04F 19/06

specifically designed for securing panels [N: or masking the edges of wall- or floor-covering elements (E04F19/022, E04F19/026 and E04F19/04 take precedence)]

References relevant to classification in this group

This subclass/group does not cover:

For use at vertical intersections of walls	E04F 19/022
Specially adapted for cushioning impacts	E04F 19/026
For use between floor or ceiling and wall	E04F 19/04

E04F 19/061

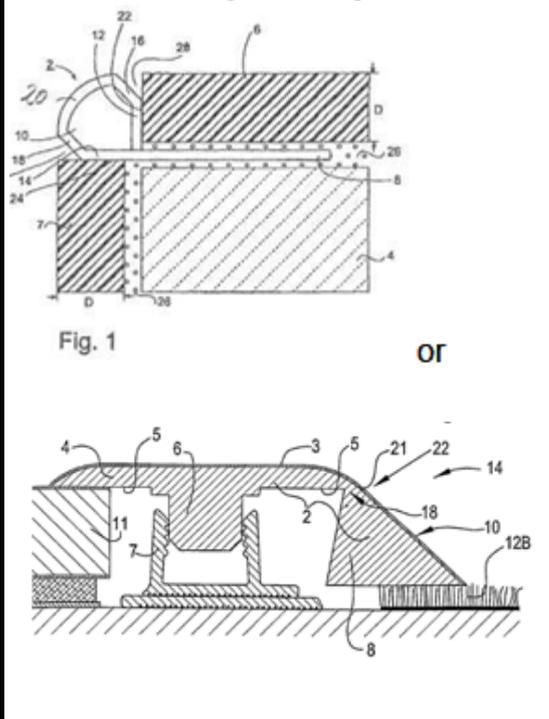
[N: used to finish off an edge or corner of a wall or floor covering area (in connection with floor fabrics A47G27/045; sealings between walls and baths A47K3/04B)]

Definition statement

This subclass/group covers:

Borders or Finishing strips, specially
--

designed for securing panels, used to finish off an edge or corner of a wall or floor covering area e.g. or



References relevant to classification in this group

This subclass/group does not cover:

In connection with floor fabrics	A47G 27/045
Sealings between walls and baths	A47K 3/04B

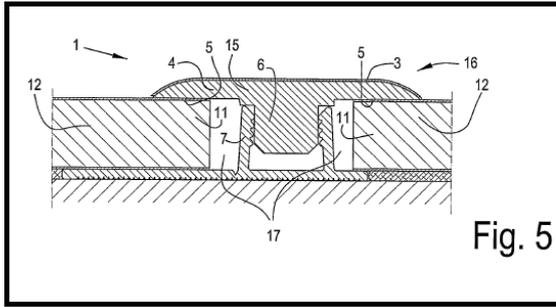
E04F 19/062

[N: used between similar elements (separate provisional spacers E04F21/0092)]

Definition statement

This subclass/group covers:

Borders or finishing strips, specially designed for securing panels, used between similar elements e.g.



References relevant to classification in this group

This subclass/group does not cover:

Separate provisional spacers	E04F 21/0092
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E04F 19/08

Built-in cupboards; Masks of niches; Covers of holes enabling access to installations ([N: inspection openings in bathtub aprons A47K3/1615; covers for electrical distribution boxes H02G3/14; movable ceiling parts E04B9/003; removable wall partitions E04B2/74 ;] clean-out doors of chimneys F23J)

References relevant to classification in this group

This subclass/group does not cover:

Inspection openings in bathtub aprons	A47K 3/1615
Cleanout doors of chimneys	F23J
Covers for electrical distribution boxes	H02G 3/14
Movable ceiling parts	E04B 9/003
Removable wall partitions	E04B 2/74

E04F 21/00

Implements for finishing work on buildings (for working or treating building elements of stone or stone-like material

B28D; designed specifically for special details provided for in the other groups of this subclass, see the relevant groups for the details [N: working measures on existing buildings E04G23/00; measuring angles or linear dimensions in general G01B, G01C; measuring inclination, e.g. by clinometers or levels G01C9/00; reference lines, planes or sectors, generated by active optical means G01C15/004])

Definition statement

This subclass/group covers:

Implements for finishing work on buildings, e.g. for mounting doors or windows, for mounting plinths, for applying plasticised masses to surfaces, for finishing joints, for setting wall or ceiling slabs, for laying flooring, for mounting staircases, for glazing.

References relevant to classification in this group

This subclass/group does not cover:

Implements for working or treating building elements of stone or stone-like materials	B28D
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Informative references

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

Working measures on existing buildings	E04G 23/00
Measuring angles or linear dimensions in general	G01B , G01C
Measuring inclination, e.g. by clinometers or levels	G01C 9/00
Reference lines, planes or sectors, generated by active optical means	G01C 15/004

Special rules of classification within this group

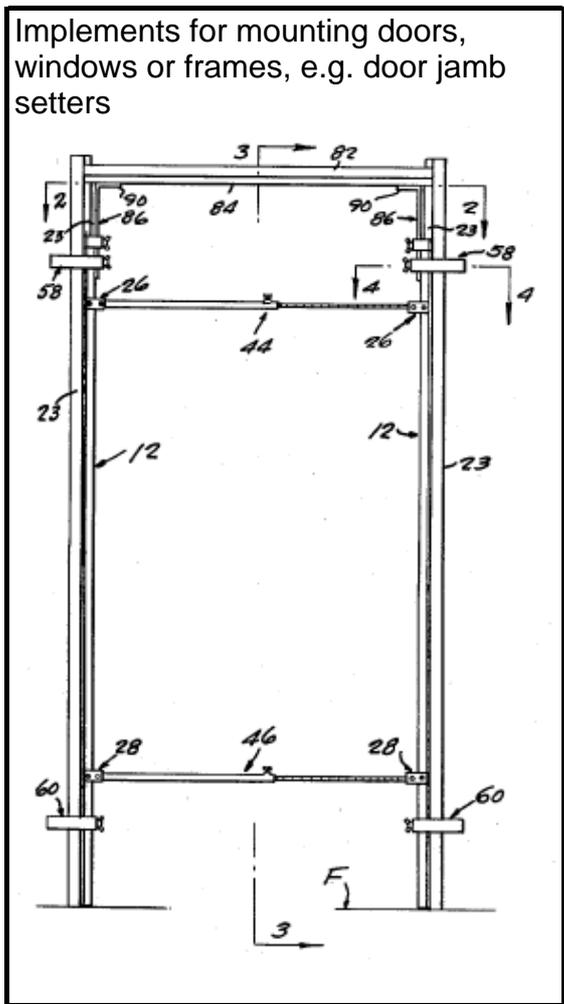
Implements designed specifically for special details provided for in the preceding groups, see the relevant groups for the details

E04F 21/0007

[N: for mounting doors, windows or frames; their fitting(door-liftersB66F15/00)]

Definition statement

This subclass/group covers:



References relevant to classification in this group

This subclass/group does not cover:

Door-lifters	B66F 15/00
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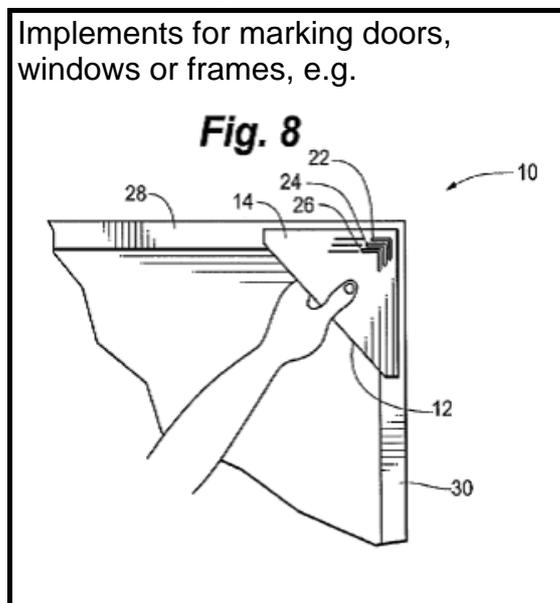
E04F 21/003

[N: for marking doors, windows or frames (templates for

marking the position of hinges E05D11/0009; templates for marking the position of doorlocks E05B17/06]

Definition statement

This subclass/group covers:



References relevant to classification in this group

This subclass/group does not cover:

Templates for marking the position of hinges	E05D 11/0009
Templates for marking the position of doorlocks	E05B 17/06

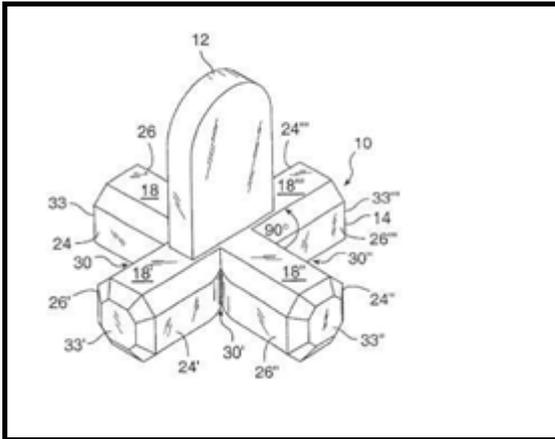
E04F 21/0092

[N: Separate provisional spacers used between adjacent floor or wall tiles (E04F13/0889, E04F15/02005 takes precedence)]

Definition statement

This subclass/group covers:

Separate provisional spacers used between adjacent floor or wall tiles , with at least parts of it being removed after installation. e.g. removable tile spacer



References relevant to classification in this group

This subclass/group does not cover:

Sealing elements between coverings composed of a number of similar elements	E04F 13/0889
Construction of joints in floorings composed of a number of similar elements	E04F 15/02005

E04F 21/02

for applying plasticised masses to surfaces, e.g. plastering walls ([N: wall covering made of hardening materials E04F13/02]; specially for flooring E04F21/20 ; implements for painting or decorating B44; applying liquids or other fluent materials to surfaces, in general B05)

Informative references

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

Wall coverings made of hardening materials	E04F 13/02
Joint tapes	E04F 13/042
Drywall taper tools	E04F 21/1657
Specially for flooring	E04F 21/20

Implements for painting or decorating	B44
Applying liquids or other fluent materials to surfaces, in general	B05

E04F 21/04

Patterns or templates; Jointing rulers [N: (profile trowels E04F21/16)]

Informative references

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

Profile trowels	E04F 21/16
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E04F 21/06

Implements for applying plaster, insulating material, or the like [N: (finishing E04F21/16)]

References relevant to classification in this group

This subclass/group does not cover:

Implements for after treatment of plaster	E04F 21/16
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E04F 21/08

Mechanical implements (E04F21/14 takes precedence; spraying in general B05B; sand-blasting B24C)

References relevant to classification in this group

This subclass/group does not cover:

Implements for applying plaster in shafts	E04F 21/14
Spraying in general	B05B
Sandblasting	B24C

E04F 21/16

Implements for after-treatment of plaster or the like [N: before it has hardened or dried], e.g. smoothing-tools, profile trowels [N: (E04F21/04, E04F21/165 take precedence)]

References relevant to classification in this group

This subclass/group does not cover:

Implements for finishing joints	E04F 21/165
Patterns or templates; Jointing rulers	E04F 21/04

E04F 21/165

for finishing joints, e.g. implements for raking or filling joints, jointers (bricklayers` tools E04G21/16; repairing, e.g. filling cracks, E04G23/02; [N: wallpaper scrapers or the like B44C7/02; implements for cleaning joints A47L13/10])

References relevant to classification in this group

This subclass/group does not cover:

Bricklayers' tools	E04G 21/16
Repairing, e.g. filling cracks	E04G 23/02
Wallpaper scrapers	B44C 7/02
Implements for cleaning joints	A47L 13/10

E04F 21/18

for setting wall or ceiling slabs or plates (tools for mosaic work B44C)

References relevant to classification in this group

This subclass/group does not cover:

Tools for mosaic work	B44C
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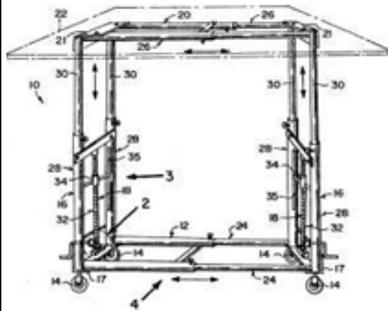
E04F 21/1805

[N: Ceiling panel lifting devices]

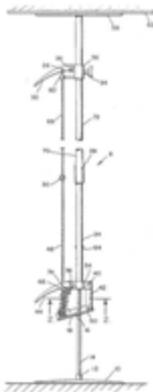
Definition statement

This subclass/group covers:

Lifting devices for installing ceiling panels in place e.g. or



or



Informative references

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

Suspended ceilings comprising panels	E04B 9/04
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E04F 21/1811

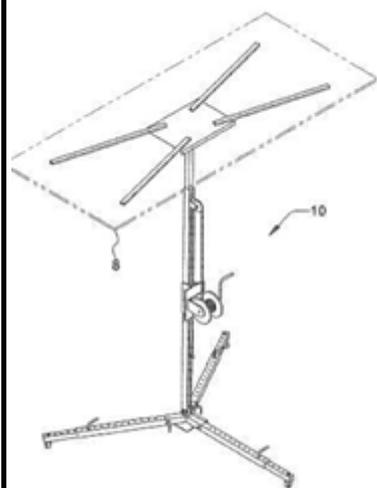
[N: with hand-driven crank systems, e.g. rope, cable or chain winding or rack-and-pinion mechanisms]

(E04F21/1816,E04F21/1822 and E04F21/1827 take precedence)

Definition statement

This subclass/group covers:

Lifting devices for installing ceiling panels in place, with hand-driven crank systems, e.g. rope, cable or chain winding or rack-and-pinion mechanisms e.g.



References relevant to classification in this group

This subclass/group does not cover:

Fluid pressure-operated	E04F 21/1816
With pivotally mounted arms	E04F 21/1822
Lazy-tongs mechanisms	E04F 21/1827

E04F 21/1816

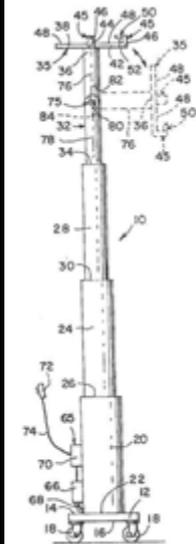
[N: fluid pressure-operated (E04F21/1822 and E04F21/1827 take precedence)]

Definition statement

This subclass/group covers:

Lifting devices for installing ceiling

panels in place, operated by fluid pressure e.g.



References relevant to classification in this group

This subclass/group does not cover:

With pivotally mounted arms	E04F 21/1822
Lazy-tongs mechanisms	E04F 21/1827

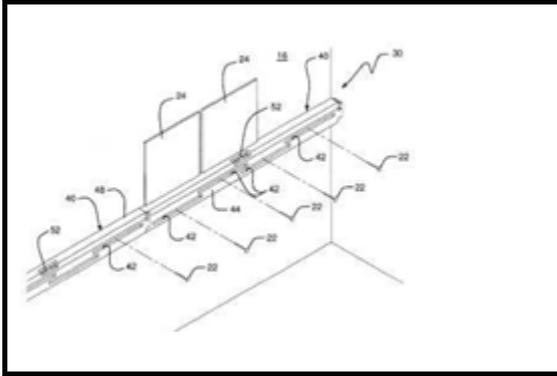
E04F 21/1838

[N: for setting a plurality of similar elements (E04F21/1805 and E04F21/1894 take precedence; separate provisional spacers E04F21/0092)]

Definition statement

This subclass/group covers:

Implements for setting a plurality of similar wall or ceiling slabs or plates:
e.g.



References relevant to classification in this group

This subclass/group does not cover:

Ceiling panels lifting devices	E04F 21/1805
Lever-type lifters	E04F 21/1894
Separate provisional spacers	E04F 21/0092

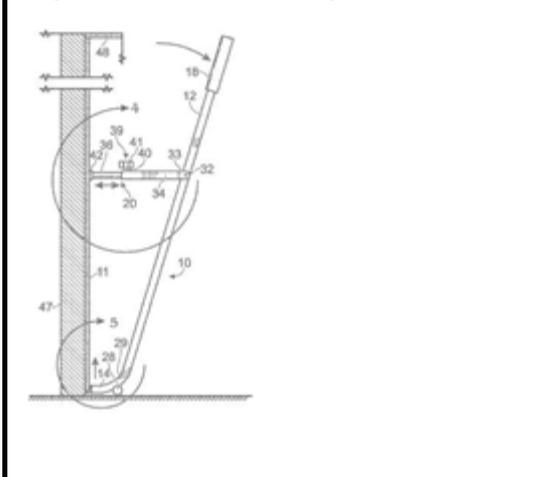
E04F 21/1894

[N: Lever-type lifters gripping the bottom edge of wall panels (door lifters B66F15/00)]

Definition statement

This subclass/group covers:

Lever-type lifters gripping the bottom edge of wall panels e.g.



Informative references

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

Door lifters	B66F 15/00
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E04F 21/20

for laying flooring (made of similar material to roads or pavements E01C; [N: arrangements for removing of previously fixed floor covering E04G23/00])

References relevant to classification in this group

This subclass/group does not cover:

Implements for laying flooring made of similar material to roads or pavements	E01C
Arrangements for removing of previously fixed floor covering	E04G 23/00

E04F 21/22

of single elements, e.g. flooring cramps; [N: flexible webs (cutting tiles B28D1/225)]

References relevant to classification in this group

This subclass/group does not cover:

Cutting tiles	B28D 1/225
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E04F 21/24

of masses made in situ, e.g. smoothing tools [N: (E04F21/04 takes precedence; finishing of concrete roads or pavings E01C19/40; devices for levelling concrete floors E04G21/10; devices for solidifying concrete floors by vibrating E04G21/066)]

References relevant to classification in this group

This subclass/group does not cover:

Pattern or templates for applying plasticised masses to surfaces	E04F 21/04
Finishing of concrete roads or pavings	E01C 19/40
Devices for levelling concrete floors	E04G 21/10
Devices for solidifying concrete floors by vibrating	E04G 21/066

E04F 21/28

for glazing (glass cutters C03B33/10)

Informative references

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

Glass cutters	C03B 33/10
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E04F 21/30

Putty squeezers or guns[N: not used, see B05C17/002]

Special rules of classification within this group

Group not used, see [B05C 17/002](#)