E04F FINISHING WORK ON BUILDINGS, e.g. STAIRS, FLOORS (windows, doors E06B)

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

10/00 Sunshades, (e.g. Florentine blinds or jalousies; Outside screens (E06B 9/26 takes precedence)); Awnings (or baldachins (for caravans B60P 3/343)); (trailer awnings E04H 15/08; for tents E04H 15/58)
10/005 . . . (Rigidly-arranged sunshade roofs with coherent surfaces)
10/006 . . . of flexible canopy materials, e.g. canvas [; Baldachins]
10/007 . . . with material fixed on sections of a collapsible frame [especially Florentine blinds]
10/008 . . . comprising a roller-blind with means for holding the end away from a building
10/009 . . . [with telescopic arms]
10/010 . . . [with guiding-sections for supporting the movable end of the blind]
10/011 . . . [with articulated arms supporting the movable end for deployment of the blind]
10/012 . . . [whereby the pivot axis of the articulation is parallel to the roller]
10/013 . . . [whereby the pivot axis of the articulation is perpendicular to the roller]
10/014 . . . [whereby the plane defined by three consecutive articulation points of an articulated arm is not parallel to the rotation axis of the roller, e.g. to create a saddle type roof construction or to prevent contact between the cloth and the arm sections]
10/015 . . . [whereby the roller is installed on the articulated arms]
10/016 . . . [whereby the arm is of the lazy tong type]
10/017 . . . [Arrangements for fastening the flexible canopy material to the supporting structure (fastening roller shutters to rollers E06B 9/171)]
10/018 . . . [with mechanisms for adjusting the inclination of the blind]
10/019 . . . [whereby the mechanism changes the inclination of the blind during unrolling]
10/020 . . . [with mechanisms for unrolling or balancing the blind]
10/021 . . . [acting on the roller tube]
10/022 . . . [acting on the arms]
10/023 . . . [acting on the movable end, e.g. front bar]
10/024 . . . [Control systems therefor]
10/025 . . . [with arrangements for fastening the blind to the building]
10/026 . . . [Accessories]
10/027 . . . [acting as intermediate support of the flexible canopy]
10/028 . . . [acting as separate supporting bar]
10/029 . . . [acting as centre bearing]
10/030 . . . [Support posts for the movable end of the blind]
10/031 . . . [Covers or housings for the rolled-up blind]
10/032 . . . [with the housing taking up the articulated arms]
10/033 . . . [Front bars]
10/034 . . . [with means to attach an auxiliary screen]
10/035 . . . of a plurality of similar rigid parts, e.g. slabs, lamellae (E04F 10/005 takes precedence)]
10/036 . . . collapsible [or extensible; metallic Florentine blinds; awnings with movable parts such as louvres; (shutters E06B 9/04; louvre windows E06B 7/08)]
11/00 Stairways, ramps, or like structures (mounting or marking-off stairways E04F 21/26; of temporary [use during building] construction E04G 27/00; means for facilitating access to swimming pools E04H 4/144; appliances for aiding patients or disabled persons to walk A61H 3/00); Balustrades; Handrails (ladders permanently attached to fixed structures E06C 9/00)
11/002 . . . [Ramps]
11/005 . . . [cast in situ]
11/007 . . . [mirrors]
11/008 . . . [mainly of glass]
11/009 . . . [mainly of metal]
11/010 . . . [mainly of stone or stone like materials, e.g. concrete; mainly of glass]
11/012 . . . [mainly of concrete]
11/014 . . . [cast in situ]
2011/0216 . . . . . (mainly of glass)
2011/0218 . . . . . (mainly of organic plastics with or without reinforcements or filling materials)
11/022 . . . . . characterised by the supporting structure
11/0223 . . . . . [Cantilevered stairways (E04F 11/032 takes precedence)]
11/0226 . . . . . [Stairways having treads supported by balusters]
11/025 . . . . . Stairways having stringers ((E04F 11/035 takes precedence)]
11/0255 . . . . . (having adjustable gradient (E04F 11/1041 takes precedence)]
11/028 . . . . . having a central stringer
11/032 . . . . . Spiral stairways supported by a central column
11/035 . . . . . Stairways consisting of a plurality of assembled modular parts without further support ((E04F 11/032 takes precedence)]
11/038 . . . . . each modular part having a load-bearing balustrade part
11/04 . . . Movable stairways, e.g. of loft ladders which may or may not be concealable or extensible (ship ladders B63B; stairs for aircraft B64F; escalators or moving walkways B66B)
11/06 . . . collapsible, e.g. folding, telescopic
11/062 . . . . . [folding]
11/064 . . . . . (with stringers overlapping when folded]
11/066 . . . . . (folding like scissors or accordions]
11/068 . . . . . (telescopic]
11/09 . . . Tread-and-riser units
11/104 . . . Treads
11/1041 . . . (having means to adjust the height, the depth and/or the slope of the stair steps (E04F 11/1042 - E04F 11/116 take precedence)]
11/1042 . . . (with an upper layer of fibres or chips, e.g. bonded with synthetic resins)
11/1043 . . . (with an upper layer of organic plastics with or without reinforcements or filling materials)
11/1045 . . . (composed of several layers, e.g. sandwich panels (layered products in general B32B; producing decorative panels or veneers B44C 5/04)]
2011/1046 . . . [Miscellaneous features of treads not otherwise provided for]
2011/1047 . . . . . [with means for eliminating squeak]
2011/1048 . . . . . [with lighting means]
11/108 . . . . . of wood (or with an upper layer of wood]
11/112 . . . . . of metal (or with an upper layer of metal]
11/116 . . . . . of stone, concrete or like material (or with an upper layer of stone or stone like material, e.g. ceramics, concrete; or glass or with an upper layer of glass]
11/16 . . . Surfaces thereof; Protecting means for edges or corners thereof ((loosely laid coverings,) floor fabrics, fastenings therefor A47G 27/00)
11/163 . . . . . [Protecting means for edges or corners]
11/166 . . . . . [with means for fixing a separate edging strip]
11/17 . . . Surfaces ([guard covers of stairs E04G 21/30)]
11/175 . . . . . [Covering panels for tread restoration]
11/18 . . . . . Balustrades; Handrails (guard-rails on ships B63B; for bridges E01D 19/10; for roads E01F 13/00, E01F 15/00; fences E04H 17/00 ; safety measures for persons during the construction of buildings E04G 21/32)]
11/1802 . . . . . [Handrails mounted on walls, e.g. on the wall side of stairs]
11/1804 . . . . . [Details of anchoring to the wall]
2011/1806 . . . . . [Balcony guard with additional child safety means]
11/1808 . . . . . [Handrail members; Connections between handrail members]
11/181 . . . . . . [Balustrades]
11/1812 . . . . . [Details of anchoring to the wall or floor]
11/1814 . . . . . . [Covers for the base portions of the balustrade posts]
11/1817 . . . . . . [Connections therefor (E04F 11/1812 and E04F 11/1836 take precedence)]
2011/1819 . . . . . . [between balustrade posts and horizontal or sloping balustrade members]
2011/1821 . . . . . . . [between balustrade posts and handrails]
2011/1823 . . . . . . . [between balustrade filling members, e.g. balusters or panels, and horizontal or sloping balustrade members]
2011/1825 . . . . . . . [between balustrade filling members, e.g. balusters or panels, and handrails]
2011/1827 . . . . . . . . . . . [between balustrades and handrails]
2011/1829 . . . . . . . . . . . [between filling panels and handrails]
2011/1831 . . . . . . . . . . . [between balustrade filling members, e.g. panels, and balustrade posts]
11/1834 . . . . . . . . . . . [with adjustable angle, e.g. pivotal connections]
11/1836 . . . . . . . . . . . [Handrails of balustrades; Connections between handrail members]
11/1838 . . . . . . . . . . . [Laterally displaced handrail]
11/184 . . . . . . . . . . . [of variable curvature; flexible]
11/1842 . . . . . . . . . . . [Balusters; Grille-type elements]
11/1844 . . . . . . . . . . . [Grille-type elements]
11/1846 . . . . . . . . . . . [Balusters with means for fixing to the floor]
11/1848 . . . . . . . . . . . [Separate means for spacing balusters apart]
11/1851 . . . . . . . . . . . [Filling panels, e.g. concrete, sheet metal panels]
11/1853 . . . . . . . . . . . [Glass panels]
11/1855 . . . . . . . . . . . [Wire mesh panels]
11/1857 . . . . . . . . . . . [Flexible panels or nets]
11/1859 . . . . . . . . . . . [Wire cables or the like filling elements]
11/1861 . . . . . . . . . . . [with additional safety means for children, e.g. nets or fillings between balusters]
11/1863 . . . . . . . . . . . [Built-in aids for ascending or descending stairs (lifts associated with stairs B66B 9/08)]
11/1865 . . . . . . . . . . . [Collapsible or portable balustrades]
2011/1868 . . . . . . . . . . . [Miscellaneous features of handrails not otherwise provided for]
2011/187 . . . . . . . . . . . [lengthwise adjustable, e.g. telescopic]
2011/1872 . . . . . . . . . . . [illuminated]
2011/1874 . . . . . . . . . . . [Noise reduction]
2011/1876 . . . . . . . . . . . [Movable elements, e.g. against sunlight]
2011/1878 . . . . . . . . . . . [Heat exchanger]
2011/188 . . . . . . . . . . . [with flower pots]
2011/1882 . . . . . . . . . . . [with traction cable inside post or rail]
2011/1885 . . . . . . . . . . . [Handrails or balusters characterized by the use of specific materials]
2011/1887 . . . . . . . . . . . [mainly of wood]
Coverings or linings, e.g. for walls or ceilings (flooring E04F 1500; decoration of surfaces, mosaic work B44, e.g. paper-hanging B44C 700; made of webs, e.g. of fabrics or wallpaper, as such, or their manufacturing) D03D, D04G, D04H, D06N, D21H; construction of [false] ceilings E04B 900; roofings or similar water-tight coverings against precipitation E04D)

13/002 . . . [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 E04F 13/0862; paperhanging, tapestry work B44C 700)]
13/005 . . . {Stretched foil- or web-like elements attached with edge gripping devices}
13/007 . . . of plastic materials hardening after applying, e.g. plaster (surface treatment in painting technique B44D; inorganic or bituminous masses C04B; organic plastics C08L; implements for applying plasticised materials E04F 21/02)}
13/00 . . . Bases for plaster (sub-ceilings with plaster-carrying means E04B 9/06)
13/009 . . . [Joint tapes]
13/015 . . . {Means for fastening plaster-bases to a supporting structure}
13/017 . . . [Plaster carrying meshes]
13/019 . . . Edge-protecting borders (borders for joints between plaster layers and window or door frames or like E06B 1/62)}
13/021 . . . for arching or curved edges)
13/023 . . . [for corners]
13/025 . . . [for lower edges of outer insulation layers]
13/027 . . . [for expansion joints between two plaster layers]
13/029 . . . [combined with mesh material or the like to allow plaster to bond therewith]
13/031 . . . composed of covering or lining elements; Sub-structures therefor; Fastening means therefor
13/033 . . . composed of specially adapted, structured or shaped covering or lining elements
13/035 . . . for particular building parts, e.g. corners or columns
13/037 . . . [for corners]
13/039 . . . [for columns]
13/041 . . . for accommodating service installations or utility lines, e.g. heating conduits, electrical lines, lighting devices or service outlets (not used; accommodating heating conduits F24D; accommodating electrical cables or lines H02G 3/00; accommodating lighting devices F21V 33/006)
13/043 . . . for insulation or surface protection, e.g. against noise or impact (not used; for insulation, e.g. against noise E04B 1/000)
faces of the covering element} 

{ by magnets }

{ by hook and loop-type fasteners }

{ the fastening elements engaged the outer surface of the covering elements, not extending through the covering (E04F 13/0839 and E04F 13/0848 take precedence) }

{ the fastening elements engaging holes or grooves in the side faces of the covering elements (E04F 13/0835 and E04F 13/0839 take precedence) }

{ the fastening elements engaged the outer surface of the covering elements, not extending through the covering (E04F 13/0839 and E04F 13/0848 take precedence) }

{ the fastening elements situate at the corners of the covering elements, not extending through the covering }

{ the fastening elements engaging the outer surface of the covering elements, not extending through the covering (E04F 13/0839 and E04F 13/0848 take precedence) }

{ with means piercing the side faces of the covering elements } 

{ fixed by means of clamping action }

{ with means of clamping action }

{ composed of a number of elements which are identical or not, e.g. carried by a common web, support plate or grid }

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

{ composed of several layers, e.g. sandwich panels or layered panels (layered products as such in general B32B; producing decorative panels or veneers B44C 5/04; E04F 13/0864, E04F 13/0875 take precedence) }

{ having acoustic absorption means on the visible surface }

{ having conduits for fluids }

{ having an ornamental or specially shaped visible surface (E04F 13/0867 takes precedence) }

{ the visible surface imitating natural stone, brick work, tiled surface or the like (E04F 13/105, E04F 13/123, E04F 13/147, E04F 13/165, E04F 13/185 take precedence) }

{ having a basic insulating layer and at least one covering layer }

{ the covering layer comprising mutual alignment or interlocking means }

{ the basic insulating layer comprising mutual alignment or interlocking means }

{ fixed directly to the wall by means of magnets, hook and loop-type or similar fasteners, not necessarily involving the side faces of the covering element }

{ by hook and loop-type fasteners }

{ by magnets }

{ specially adapted for being adhesively fixed to the wall; Fastening means therefor; Fixing by means of plastics materials hardening after application } 

{ Adhesive means specially adapted therefor, e.g. adhesive foils or strips }

{ characterised by the joints between neighbouring elements, e.g. with joint fillings or with tongue and groove connections }

{ with joint fillings }

{ with means for aligning the outer surfaces of the covering elements (E04F 13/0894 takes precedence) }

{ with tongue and groove connections }

{ with adhesive joining strips (E04F 13/0894, E04F 13/0898 take precedence) }

{ with sealing elements between coverings (seals of joints between building constructions in general E04B 1/68) }

{ of elements attached to a common web, support plate or grid { (not used, see E04F 13/0862) } }

{ of wood { or with an outer layer of wood (E04F 13/0864 takes precedence) } }

{ of an outer layer imitating natural stone, brick work, tiled surface or the like }

{ of metal { or with an outer layer of metal (E04F 13/0864 takes precedence) } }

{ of elements attached to a common web, support plate or grid { (not used, see E04F 13/0862) } }

{ of wood { or with an outer layer of wood (E04F 13/0864 takes precedence) } }

{ of an outer layer imitating natural stone, brick work, tiled surface or the like }

{ of metal { or with an outer layer of metal (E04F 13/0864 takes precedence) } }

{ of an outer layer of concrete (E04F 13/147 takes precedence) }

{ of an outer layer of ceramics or clays }

{ of an outer layer of marble or other natural stone }

{ of an outer layer of glass }

{ of an outer layer imitating natural stone, brick work or the like }

{ of an outer layer of asbestos cement or the like }

{ characterised by the use of glass elements {, i.e. wherein an outer layer is not of glass (E04F 13/145 takes precedence) } }

{ of fibres or chips, e.g. bonded with synthetic resins {, or with an outer layer of fibres or chips (E04F 13/0864 takes precedence) } }

{ with an outer layer imitating natural stone, brick work, tiled surface or the like }

{ of organic plastics with or without reinforcements or filling materials (of plastic-bound fibres or chips E04F 13/16) { or with an outer layer of organic plastics with or without reinforcements or filling materials; plastic tiles (E04F 13/0864 takes precedence) } }
Flooring (stair treads E04F 11/10; coverings not specially adapted for floors E04F 13/00; borders, skirtings E04F 19/02; implements for laying flooring E04F 21/20; gratings for cleaning soles of footwear A47L 23/24; built-in gratings E04F 19/10; removing floor coverings E04G 23/00; carpets A47G 27/00; of similar materials to roads E01C; basic or rough floors { structural floors } E04B 5/00)

Similar materials to roads E01C

Flooring; { built-in gratings E04F 19/10; carpets A47G 27/00; } of gratings for cleaning soles of footwear E01C; basic or rough floors { structural floors } E04B 5/00

Flooring consisting of parquetry tiles on a non-rollable common support plate or grid (E04F 15/02464 takes precedence)

Flooring consisting of a number of elements (of webs E04F 15/16)

Flooring consisting of parquetry tiles on a non-rollable common support plate or grid (E04F 15/02464 takes precedence)

Flooring consisting of parquetry tiles on a non-rollable sub-layer of other material, e.g. board, concrete, cork

Flooring consisting of parquetry tiles on a non-rollable sub-layer of other material, e.g. board, concrete, cork (height-adjustable supports for terrace roof coverings E04D 11/00; underfloor heating using water F24D 3/142; using air F24D 5/10; installation of cables, lines or protective tubing in floors H02G 3/28)

Flooring consisting of parquetry tiles on a non-rollable sub-layer of other material, e.g. board, concrete, cork

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Floor elements for use at a specific location (not used, see subgroups)

Floor elements for use at a specific location (not used, see subgroups)

Floor elements for use at a specific location (not used, see subgroups)

Floor elements for use at a specific location (not used, see subgroups)

Floor elements with grooved main surface

Floor elements with grooved main surface

Floor elements with grooved main surface

Floor elements with an anti-skid main surface, other than with grooves

Floor elements with grooved main surface

Floor elements with grooved main surface

Floor elements with grooved main surface

Floor elements with grooved main surface

Floor elements with grooved main surface
15/04 only of wood (or with a top layer of wood), e.g. with wooden (or metal) connecting members (rollable parquet E04F 15/16)
15/041 . . . [with a top layer of wood in combination with a lower layer of other material]
15/042 . . . (the lower layer being of fibrous or chipped material, e.g. bonded with synthetic resins)
15/043 . . . (the lower layer being of organic plastic with or without reinforcements or filling materials)
15/045 . . . [Layered panels only of wood]
15/046 . . . . [Plywood panels]
15/047 . . . [with a butcher-block like top surface]
15/048 . . . [with a top surface of assembled elongated wooden strip type]
15/06 . . . . only of metal, whether or not in combination with other material (gratings as building elements E04C 2/42 ; of elements with a metal upper layer; E04F 15/02/05 takes precedence; metal treads E04F 11/112)]
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 (E04F 15/02/05 takes precedence))
15/082 . . . . [with a top layer of stone or stone-like material, e.g. ceramics, concrete or glass in combination with a lower layer of other material]
15/085 . . . . [The lower layer being of fibrous or chipped material, e.g. bonded with synthetic resins]
15/087 . . . . [The lower layer being of organic plastic with or without reinforcements or filling materials]
15/10 . . . . of other materials, e.g. fibrous or chipped materials, organic plastics, magnesite {tiles}, hardboard {, or with a top layer of other materials}
15/102 . . . . of fibrous or chipped materials, e.g. bonded with synthetic resins)
15/105 . . . . of organic plastics with or without reinforcements or filling materials]
15/107 . . . . [composed of several layers, e.g. sandwich panels (layered products in general B32B; producing decorative panels or veneers B44C 5/04)]
15/12 . . . Flooring or floor layers made of masses in situ, e.g. seamless magnesite floors, terrazzo (gyptum floors) (inorganic or bituminous masses C04B; plastic mass C08L)
15/123 . . . (Lost formworks for producing hollow floor screed layers, e.g. for receiving installations, ducts, cables (structural floors E04B 5/00; filling elements for building-up floors E04B 5/26; installation of cables, lines or protective tubing in floors H02G 3/26))
15/126 . . . [Terrazzo floors]
15/14 . . . Construction of joints, e.g. dividing strips ((E04F 15/02/05 takes precedence;) sealing joints not restricted to flooring E04B 1/68 (. construction of joints in roads or airfields E01C 11/02))
15/142 . . . [Dividing strips or boundary strips]
15/145 . . . [adjustable in height]
15/147 . . . . [interconnected to form a grid-like structure]
15/16 . . . Flooring, e.g. parquet on flexible web, laid as flexible webs; Web specially adapted for use as flooring; Parquet on flexible web (resiliently-mounted floors, e.g. sprung floors, E04F 15/22; linoleum D06N; carpets A47G 27/00)]
15/163 . . . [Webs specially adapted for use as finishing layers]
15/166 . . . {Flooring consisting of a number of elements carried by a common flexible web, e.g. rollable parquet]
15/18 . . . Separately-laid insulating layers; Other additional insulating measures; Floating floors (insulating of buildings in general E04B 1/62)
15/181 . . . [Insulating layers integrally formed with the flooring or the flooring elements]
15/182 . . . [Underlayers coated with adhesive or mortar to receive the flooring]
15/183 . . . . [for areas prone to frost damage, e.g. for balconies or terraces]
15/185 . . . [Underlayers in the form of studded or ribbed plates]
15/186 . . . [Underlayers covered with a mesh or the like]
15/187 . . . [Underlayers specially adapted to be laid with overlapping edges]
15/188 . . . [Edge insulation strips, e.g. for floor screed layers (boundary strips in layers made of masses in situ E04F 15/142)]
15/20 . . . for sound insulation
15/203 . . . [Separately-laid layers for sound insulation]
15/206 . . . . [Layered panels for sound insulation]
15/22 . . . Resiliently-mounted floors, e.g. sprung floors (laid as webs E04F 15/16)
15/225 . . . [Shock absorber members therefor]
17000 Vertical ducts; Channels, e.g. for drainage (pipes in general F16L; pipe-line systems F17D ; drainage devices in floors E03F 5/04; roof drainage E04D 13/04))
17005 . . . [Lift shafts]
17/02 . for carrying away waste gases, e.g. flue gases (free-standing chimneys E04H 12/28; connections between fireplace and chimney, chimney fittings, covers for cleaning holes of chimneys F23J; chimney tops F23L); Building elements especially designed therefor, e.g. shaped bricks or sets thereof (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 thereof F23L 11.00, F23L 13.00)

17/023 . (made of masonry, concrete or other stone-like material; Insulating measures and joints therefor)

17/026 . [Exterior cladding, e.g. of chimney parts extending above the roof; Rain covers for chimney tops without draught-inducing aspects (inducing draught in chimneys F23L 17/00)]

17/04 . Air-ducts or air channels [(heating in general F24; ventilating rooms in general F24F)]

17/06 . Light shafts, e.g. for cellsars

17/08 . for receiving utility lines, e.g. cables, pipes (covers giving access to the ducts or channels, covers of inspection holes E04F 19/008)

17/10 . Arrangements in buildings for the disposal of refuse (refuse bins, gathering or removal of refuse B65F)

17/12 . . . Chutes

17/123 . . . {Cleaning or disinfecting thereof}

17/126 . . . . {with water flushing}

19/00 Other details of constructional parts for finishing work on buildings (ladders, e.g. climbing irons, E06C 9/004)

19/005 . (Chimney mantel pieces)

19/02 . Borders; Finishing strips, e.g. beadings; Light covs (for protecting edges of plaster E04F 13/06)

19/022 . . . {for use at vertical intersections of walls (E04F 19/028 takes precedence)}

19/024 . . . {for outside use, e.g. imitating brickwork}

19/026 . . . {specially adapted for cushioning impacts}

19/028 . . . {used at protruding corners}

19/04 . . . {for use between floor or ceiling and wall, e.g. skirtings}

19/04 . . . {for characterising the material}

19/0409 . . . . . {of wood}

19/0413 . . . . {of metal}

19/0418 . . . . {of stone or stone like material, e.g. ceramics, concrete; of glass}

19/0422 . . . . {of organic plastics with or without reinforcements or filling materials}

19/0427 . . . . {with a integrally formed hinge}

19/0431 . . . . {of two or more materials}

19/0436 . . . . {between ceiling and wall}

19/0444 . . . {with conduits}

19/0445 . . . . {Ventilating plinths}

19/0445 . . . . {Hygienic or watertight plinths}

19/0454 . . . . {with decorative effects}

19/0459 . . . . {characterised by the fixing method}

19/0463 . . . . {Plinths fixed by snap-action in a direction perpendicular to the wall}

19/0468 . . . . {Plinths fixed by hooking in a direction parallel to the wall}

19/0472 . . . . {Plinths fixed by means of magnets, hook and loop-type or similar fasteners}

19/0477 . . . . {Plinths fixed by means of adhesive}

19/0481 . . . . {Skirtings or crown mouldings with a separate cladding strip}

19/0486 . . . . {Corner filling pieces}

19/049 . . . . {Plinths specially adapted for joining wall coverings to floor surfaces}

19/0495 . . . {Plinths fixed around wall openings or around corners of walls}

19/06 . . . specially designed for securing panels {or masking the edges of wall- or floor-covering elements (E04F 19/022, E04F 19/026 and E04F 19/04 take precedence)}

19/061 . . . {used to finish off an edge or corner of a wall or floor covering area (in connection with floor fabrics A47G 27/045; sealings between walls and baths A47K 3/008)}

19/062 . . . {used between similar elements (separate provisional spacers E04F 21/0002)}

19/063 . . . {for simultaneously securing panels having different thicknesses}

19/064 . . . . {in corners}

19/065 . . . . {Finishing profiles with a T-shaped cross-section or the like}

19/066 . . . . {fixed onto a base profile by means of a separate connector}

19/067 . . . . {with means preventing a tipping movement}

19/068 . . . . . {with means allowing a tipping movement}

19/08 . Built-in cupboards; Masks of niches; Covers of holes enabling access to installations (inspection openings in bathtub aprons A47K 3/1615; covers for electrical distribution boxes H02G 3/14; movable ceiling parts E04B 9/002; removable wall partitions E04B 27/45; clean-out doors of chimneys F23J)

19/083 . . . . {Covers with fixing means providing for snap locking}

19/086 . . . . {Covers with magnetic fixing means}

19/10 . Built-in gratings, e.g. foot-scrappers

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) 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)

21/0007 . . . {for mounting doors, windows or frames; their fitting (door-lifters B66F 15/000)}

21/0015 . . . {for mounting frames}

21/0023 . . . {for mounting door leaves, window sashes or the like}

21/003 . . . {for marking doors, windows or frames (templates for marking the position of hinges E05D 11/0009; templates for marking the position of doorlocks E05B 17/006)}

21/0038 . . . {for fitting sealing strips or like}

21/0046 . . . {for reshaping butt joints between adjacent panels, e.g. drywall panels (E04F 21/165 takes precedence)}

21/0053 . . . {for installing edge-protecting borders}

21/00561 . . . . {with crimping means}

21/0069 . . . {for cutting or mounting plinths}
21/00076 . . . (for marking and cutting tiles)
21/0084 . . . (implements for removing filling material from joints)
21/0092 . . . (separate provisional spacers used between adjacent floor or wall tiles (E04F 13/0889, E04F 15/0205 takes precedence))
21/02 . . . (for applying plasticised masses to surfaces, e.g. plastering walls (wall covering made of hardening materials E04F 13/02); specially for flooring E04F 21/20; implements for painting or decorating B44; applying liquids or other fluent materials to surfaces, in general B05)
21/023 . . . (for applying adhesive, e.g. glue or mortar, on the covering elements, in particular tiles)
21/026 . . . (for applying adhesive or joint compound to joint tapes, in particular drywall tapes (joint tapes E04F 13/042; drywall tapper tools E04F 21/1657))
21/04 . . . Patterns or templates; Jointing rulers (profile trowels E04F 21/16)
21/05 . . . Supports for jointing rulers
21/06 . . . Implements for applying plaster, insulating material, or the like (finishing E04F 21/16)
21/08 . . . Mechanical implements (E04F 21/14 takes precedence; spraying in general B05D; sand-blasting B24C)
21/085 . . . (for filling building cavity walls with insulating materials)
21/10 . . . centrifugally acting
21/12 . . . acting by gas pressure, e.g. steam pressure
21/14 . . . in shafts, e.g. chimneys
21/16 . . . Implements for after-treatment of plaster or the like (before it has hardened or dried), e.g. smoothing-tools, profile trowels (E04F 21/04, E04F 21/165 takes precedence)
21/161 . . . [Trowels]
21/162 . . . . . . [with a blade having a notched or toothed edge]
21/163 . . . . . . [with exchangeable blades]
21/165 . . . . (for finishing joints, e.g. implements for raking or filling joints, jointers (bricklayers' tools E04G 21/16); repairing, e.g. filling cracks, E04G 23/02; wallpaper scrapers or the like B44C 7/02; implements for cleaning joints A47L 13/10)
21/1652 . . . (for smoothing and shaping joint compound to a desired contour)
21/1655 . . . (for finishing corner joints)
21/1657 . . . (for applying tape to joints, e.g. drywall taper tools)
21/18 . . . for setting wall or ceiling slabs or plates (tools for mosaic work B44C)
21/1805 . . . (ceiling panel lifting devices)
21/1811 . . . (with hand-driven crank systems, e.g. rope, cable or chain winding or rack-and-pinion mechanisms (E04F 21/1816, E04F 21/1822 and E04F 21/1827 take precedence))
21/1816 . . . (fluid pressure-operated (E04F 21/1822 and E04F 21/1827 take precedence))
21/1822 . . . (with pivotally mounted arms)
21/1827 . . . . . . [Lazy-tongs mechanisms]
21/1833 . . . [spring-force actuated]
by rotating the sheets, plates or panels around an axis which is perpendicular to the abutting edges and parallel to the main plane, possibly combined with a sliding movement

with snap action of the edge connectors

by rotating the sheets, plates or panels around an axis which is perpendicular to the abutting edges and perpendicular to the main plane, possibly combined with a sliding movement

with snap action of the edge connectors

Non-undercut connections, e.g. tongue and groove connections

. . . with separate protrusions

. . . with tongue or grooves alternating longitudinally along the edge

. . . with a continuous tongue or groove

. . . with tongue and grooves alternating transversally in the direction of the thickness of the panel, e.g. multiple tongue and grooves oriented parallel to each other

. . . with rabbets, e.g. being stepped

. . . connected by tongues and grooves, the centerline of the connection being inclined to the top surface

. . . connected by tongues and grooves with triangular shape

. . . Undercut connections, e.g. using undercut tongues or grooves

. . . Dovetail connections

. . . Other details of tongues or grooves

. . . Tongues or grooves with slits or cuts for expansion or flexibility

. . . with grooves positioned on the rear-side of the panel

. . . with tongues and grooves being formed by projecting or recessed parts of the panel layers

. . . with tongues or grooves comprising elements which are not manufactured in one piece with the sheets, plates or panels but which are permanently fixedly connected to the sheets, plates or panels, e.g. at the factory (for separate tongues E04F 2201/0552)

. . . wherein the elements are made of wood

. . . wherein the elements are made of metal

. . . wherein the elements are made of stone or stone like material, e.g. ceramics, concrete; of glass

. . . wherein the elements are made of fibres or chips, e.g. bonded with synthetic resins

. . . wherein the elements are made of organic plastics with or without reinforcements or filling materials

. . . Separate connectors or inserts, e.g. pegs, pins, keys or strips

. . . Pegs or pins

. . . Strips or bars, e.g. nailing strips

. . . U- or C-shaped brackets and clamps

. . . Separate tongues; Interlocking keys, e.g. joining mouldings of circular, square or rectangular shape

. . . the interlocking key acting as a dovetail-type key

. . . adapted for snap locking

. . . adapted to be moved along the joint edge

. . . adapted to be moved perpendicular to the joint edge

. . . adapted to be rotated around an axis parallel to the joint edge

. . . adapted to be rotated around an axis perpendicular to the joint edge

. . . depending on the use of specific materials

. . . of wood

. . . of metal

. . . of fibres or chips, e.g. bonded with synthetic resins

. . . of organic plastics with or without reinforcements or filling materials

Hinge-like connectors

Magnets

with connections using a special adhesives material

hook and loop-type fastener or similar fixing means

Puzzle-type connections for interlocking male and female panel edge-parts

. . . with the edge-parts forming part of the panel body

. . . with the edge-parts being separate elements not being part of the panel body

. . . with both connection parts, i.e. male and female connection parts alternating on one edge

. . . with only one type of connection parts, i.e. with male or female on one edge

. . . wherein the interlocking male and female edge-parts have a dovetail, mushroom or similar shape

Specially structured or shaped covering, lining or flooring elements not otherwise provided for

. . . having particular shapes, other than square or rectangular, e.g. triangular, hexagonal, circular, irregular

. . . having triangular shapes

. . . having hexagonal shapes

. . . comprising a plurality of internal elongated cavities arranged in substantially parallel rows

. . . comprising two layers fixedly secured to one another, in offset relationship in order to form a rebate

. . . in offset relationship longitudinally as well as transversely

. . . with a plurality of grooves or slits in the back side, to increase the flexibility or bendability of the elements

Specially adapted covering, lining or flooring elements not otherwise provided for

. . . for accommodating service installations or utility lines, e.g. heating conduits, electrical lines, lighting devices or service outlets

. . . for heating

. . . for lighting

. . . for insulation or surface protection, e.g. against noise, impact or fire

. . . against noise

. . . with a facing or top layer for sound insulation

. . . with a bottom layer for sound insulation

. . . against impact

. . . against fire

. . . with a facing or top layer for fire insulation

. . . with a bottom layer for fire insulation

. . . against static electricity