# CPC COOPERATIVE PATENT CLASSIFICATION

# E FIXED CONSTRUCTIONS

# **BUILDING**

#### E04 BUILDING

# **E04D** ROOF COVERINGS; SKY-LIGHTS; GUTTERS; ROOF-WORKING TOOLS (coverings of outer walls by plaster or other porous material <u>E04F 13/00</u>)

#### **NOTE**

In this subclass, the following expression is used with the meaning indicated:

 "roof coverings" includes any similar kind of watertight covering against rain, snow, hail, or the like, for other parts of buildings

# WARNINGS

E04D 1/14 - E04D 1/205

1. The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

 E04D 3/3645
 covered by
 E04D 3/363

 E04D 3/367
 covered by
 E04D 3/364

 E04D 13/18
 covered by
 F24S 20/67, H02S 20/23

2. 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.

1/00	Roof covering by making use of tiles, slates,	1/23	• • {with tapered thickness}
	shingles, or other small roofing elements (roofing	1/24	. Roofing elements with cavities, e.g. hollow tiles
	supports {or underlayers} <u>E04D 12/00</u> )		(E04D 1/28 takes precedence)
2001/005	• {the roofing elements having a granulated surface}	1/26	<ul> <li>Strip-shaped roofing elements {simulating a</li> </ul>
1/02	• Grooved or vaulted roofing elements ( <u>E04D 1/28</u> ,		repetitive pattern, e.g.} appearing as a row of
	E04D 1/30 take precedence)		shingles
1/025	• • {Diamond shaped and installed in diagonal lines}	1/265	• • {the roofing elements being rigid, e.g. made of
1/04	of ceramics, glass or concrete, with or without		metal, wood or concrete}
	reinforcement	1/28	• Roofing elements comprising two or more layers,
1/045	• • • {Vaulted roofing elements laid alternately side-	1 (2.0	e.g. for insulation
	up and side-down, e.g. monks and nuns tiles}	1/29	• {Means for connecting or fastening adjacent roofing
1/06	of metal	1/2007	elements}
1/08	• of plastics; {of asphalt;} of fibrous materials	1/2907	• • {by interfitted sections}
1/085	• • • {of wood}	1/2914	• • • {having fastening means or anchors at juncture
1/10	• of specified materials {not covered by any	1/2916	of adjacent roofing elements } {the fastening means taking hold directly on
	one of groups <u>E04D 1/04</u> - <u>E04D 1/085</u> }, or of combinations of materials, {where at least	1/2910	adjacent elements of the same row}
	one is} not covered by any one of groups	1/2918	{the fastening means taking hold directly on
	<u>E04D 1/04</u> - <u>E04D 1/085</u>		adjacent elements of succeeding rows}
1/12	<ul> <li>Roofing elements shaped as plain tiles or shingles,</li> </ul>	1/2921	• • • {having resilient detents adapted to be biased to
	i.e. with flat outer surface (E04D 1/28, E04D 1/30		a position to resist separation}
	take precedence)	1/2928	• • • {having slits receiving marginal edge of
1/125	• • {Diamond shaped elements specially adapted for		adjacent section}
	being installed in diagonal lines}	1/2935	• • {folded, rolled, or indented <u>in situ</u> }
1/14	• of slate material, with or without fastening means	1/2942	• • • {having folded sections receiving interfitted
1/16	• of ceramics, glass or concrete, with or without	4 (2.0.4.0	part of adjacent section}
1/10	reinforcement	1/2949	• • • {having joints with fluid-handling feature, e.g.
1/18	. of metal	1/2056	a fluid channel for draining}
1/20	• of plastics; {of asphalt;} of fibrous materials	1/2956	• • • {having tongues and grooves}
1/205	• • • {of wood}	1/2963	• • • {having laminated layers overlapping adjacent
1/22	• of specified materials (not covered by any	1/2004	sections}
	one of groups <u>E04D 1/14</u> - <u>E04D 1/205</u> }, or of combinations of materials, {where at least	1/2984	• • {with spacing or space-forming features, e.g. braces, fillers or drains}
	one is } not covered by any one of groups		oraces, finers or drains;
	one is a not covered by any one of groups		

1/30	• Special roof-covering elements, e.g. ridge tiles, gutter tiles, gable tiles, ventilation tiles (E04D 3/40)	2001/3488	• { characterised by the type of roof covering elements being fastened}
	takes precedence)	2001/3491	• • {made of flexible material, e.g. shingles}
2001/301	• • {at roof edges, e.g. intersections with walls}		{made of rigid material having a flat external
2001/302	• • {Gable tiles}		surface}
2001/303	• • {Eave tiles}	2001/3497	{Spanish type tiles}
2001/304	• • {at roof intersections, e.g. valley tiles, ridge tiles}	1/36	Devices for sealing the spaces or joints between
2001/305	• • • {Ridge or hip tiles}		roof-covering elements (sealing joints not restricted
2001/306	{Under-ridge tiles}		to roof-covering elements E04B 1/68; {channels at
2001/307	• • {for passages in the roof surface}		the intersection of roof surfaces <u>E04D 13/0445</u> })
2001/308	• • {for special purposes not otherwise provided for,	1/365	{Sealing strips between lateral sides of roof-
2001/300	e.g. turfing tiles, step tiles}		covering elements}
2001/309	• {Ventilation tiles}	2/00	Declaration beautiful and Color
1/34	• Fastenings for attaching roof-covering elements to	3/00	Roof covering by making use of flat or curved slabs or stiff sheets (£04D 1/00 takes precedence;
1,0.	the supporting elements		built-up roofs <u>E04D 11/02</u> )
1/3402	• • {for ridge or roofhip tiles}		
1/3405	• {for eaves, valley, or verge tiles}		NOTE
2001/3408	• {characterised by the fastener type or material}		In groups <u>E04D 3/361</u> - <u>E04D 3/368</u> , additional
2001/3411	{Metal wires or rods}		small fastening elements, e.g. nails, screws, are
			not to be considered to be separate connecting
	{Metal strips or sheet metal}		elements.
	{Synthetic, composite or molded material}		{This Note corresponds to IPC Note (1) relating to
2001/342	• • • {Flexible filamentous ties, e.g. to be twisted or		E04D 3/361 - E04D 3/368.}
2001/2422	forming nets}		<u> </u>
2001/3423	{Nails, rivets, staples or straps piercing or	3/02	. of plane slabs, slates, or sheets, or in which the
2001/2426	perforating the roof covering material}		cross-section is unimportant (E04D 3/35 takes
	• • • {Threaded elements, e.g. screws or bolts}		precedence)
2001/3429	• • • {Press-studs elements or hook and loop	3/04	<ul> <li>of concrete or ceramics (of asbestos cement</li> </ul>
2001/2422	elements}		<u>E04D 3/18</u> )
2001/3432	• • • {Strips covering the gap between the roof	3/06	of glass or other translucent material; Fixing
2001/2425	covering elements}		means therefor (fixing glass panes by means
2001/3435	{Adhesive, hardenable or heat-sensitive		applicable to windows <u>E06B 3/54</u> )
	material}	2003/065	• • • {Corner- or point-supported glazing}
2001/3438	{Fasteners comprising several coacting	3/08	• • • with metal glazing bars
2001/2441	elements}	2003/0806	• • • {the supporting section of the glazing bar
	• • • {Series of easily separable fasteners}		consisting of one single extruded or rolled
2001/3444	• {characterised by the roof covering or structure with integral or premounted fastening means}		metal part}
2001/2447	· · · · · · · · · · · · · · · · · · ·	2003/0812	• • • • {the supporting section of the glazing bar
2001/3447	• • • {the fastening means being integral or premounted to the roof covering}		consisting of one single bent or otherwise
2001/245			deformed sheetmetal}
2001/345	• • • {the fastening means being integral or premounted to the roof structure}	2003/0818	· 11 & & &
2001/2452	• • {characterised by the location of the fastening		consisting of several parts, e.g. compound
2001/3432	means}	2002/0025	sections}
2001/2455	• • { on the internal surface of the roof covering	2003/0825	{the metal section covered by parts of
2001/3433	elements}	2002/0021	other material}
2001/3/158	• • {on the upper or lower transverse edges of the	2003/0831	Glazing gaskets of particular shape
2001/3438	roof covering elements}	2003/0837	Sections comprising intermediate parts of
2001/3461	• • • {on the lateral edges of the roof covering	2002/0042	insulating material}
2001/3401	elements}	2003/0843	{Clamping of the sheets or glass panes to the
2001/3464	• • • {on the lateral corners of the roof covering	2002/005	glazing bars by means of covering strips}
2001/3404	elements for diagonally tiled roofs}	2003/085	locked by snap action}
2001/3467	• • {through apertures, holes or slots}	2003/0856	locked by screws, bolts or pins}
2001/347	{characterised by the fastening pattern}	2003/0862	• • • {by means of separate clips or hooks}
	{fastening single roof elements to the roof	2003/0868	{Mutual connections and details of glazing
2001/34/3	structure with or without indirect clamping of	2002/0075	bars}
	neighbouring roof covering elements}	2003/0875	• • • • (on the ridge of the roof or on intersecting
2001/3476	• • • {the fastening means taking hold directly	2002/0001	roof parts}
2001/04/0	on adjacent elements of the same row and	2003/0881	• • • • {on the eaves of the roof}
	fastening them simultaneously to the roof	2003/0887	(Glazing bars for coverings consisting of
	structure}	2002/0002	more than one sheet or glass pane }
2001/3482		2003/0893	{Glazing bars comprising means for draining condensation water or infiltrated rainwater}
	elements of succeeding rows and fastening	2/1/	
	them simultaneously to the structure}	3/14	with glazing bars of other material, e.g. of glass
		3/16	of metal

3/18		specified materials, or of combinations materials, not covered by any of groups	3/363	• • • with snap action ( <u>E04D 3/366</u> takes precedence)
		4D 3/04, E04D 3/06 or E04D 3/16	3/364	• • {by folding of the edges}
3/24		special cross-section, e.g. with corrugations on	3/365	<ul> <li>by simple overlapping of the marginal portions</li> </ul>
3/24		sides, with ribs, flanges, or the like (E04D 3/35	3/303	with use of separate connecting elements, e.g.
		precedence)		
2/26			2/266	hooks or bolts for corrugated sheets
3/26		concrete or ceramics	3/366	• • by closing the space between the slabs or sheets
3/28		glass {or other translucent material}		by gutters, bulges, or bridging elements, e.g.
2003/285		with specially profiled marginal portions for connecting purposes }	3/368	<ul><li>strips</li><li>by forcing together the marginal portions of</li></ul>
3/30	of			adjacent slabs or sheets
3/30		plastics, fibrous materials, or asbestos cement	3/369	<ul> <li>by welding of the marginal portions of adjacent</li> </ul>
			3/307	slabs or sheets {also by soldering, glueing}
3/34		specified materials, or of combinations of	2/29	
		terials, not covered by any one of groups	3/38	. Devices for sealing spaces or joints between roof-
		4D 3/26 - <u>E04D 3/32</u>		covering elements ( <u>E04D 3/36</u> takes precedence;
3/35		ng slabs or stiff sheets comprising two or more		sealing joints not restricted to roof-covering
		s, e.g. for insulation {(self-supporting roofing		elements E04B 1/68)
		laminated with layers of insulating material	3/40	<ul> <li>Slabs or sheets locally modified for auxiliary</li> </ul>
	<u>E04B</u>	7/22; insulating devices or arrangements in		purposes, e.g. for resting on walls, for serving
		of covering <u>E04D 13/16</u> ; connecting, fastening		as guttering; Elements for particular purposes,
	of do	uble roof covering E04D 3/3608)}		e.g. ridge elements, specially designed for use in
3/351		least one of the layers being composed of		conjunction with slabs or sheets $\{(\underline{\text{E04D } 13/15})\}$
		ulating material, e.g. fibre or foam material}		and E04D 13/174 take precedence; ridge
3/352		at least one insulating layer being located		sealing E04D 1/36; solar collectors F24S 20/67;
3,332		between non-insulating layers, e.g. double skin		photovoltaic devices <u>H01L 31/00</u> )}
		labs or sheets}	3/405	• • {Wall copings}
2/254				
3/354		more than one of the layers being composed	5/00	Roof covering by making use of flexible material,
0/077		of insulating material}		e.g. supplied in roll form (using stiff sheets
3/355		the insulating layers of adjacent slabs having		<u>E04D 3/00</u> ; gravelling of flat roofs <u>E04D 7/00</u> {;
		cooperating edges}		granulated roof covering <u>E04D 7/005</u> }; built-up roofs
3/357	{cc	omprising hollow cavities}		E04D 11/02)
0 (0 = 0				
3/358	{w	ith at least one of the layers being offset with		NOTE
3/358				NOTE
	res	pect to another layer}		
3/36	res . Conn	pect to another layer} ecting; Fastening		Group <u>E04D 5/12</u> takes precedence over groups
	res . Conn {of	pect to another layer} ecting; Fastening roof covering supported by the roof		
3/36	res . Conn . {of	pect to another layer} ecting; Fastening roof covering supported by the roof acture with interposition of a insulating	5/02	Group <u>E04D 5/12</u> takes precedence over groups
3/36	res Conn (of strue)	pect to another layer} ecting; Fastening roof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608,	5/02	Group <u>E04D 5/12</u> takes precedence over groups <u>E04D 5/02</u> - <u>E04D 5/10</u>
3/36 3/3601	res Conn Gof stru lay E0	pect to another layer} ecting; Fastening roof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)}	5/02 5/04	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt
3/36	res Conn (of structure) Lay E0.	pect to another layer} ecting; Fastening roof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated	5/04	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils
3/36 3/3601 3/3602	res . Conn . { of structure lay E0 {	pect to another layer} ecting; Fastening Froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer}	5/04 5/06	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics
3/36 3/3601 3/3602 3/3603	res . Conn . { of structure lay E0 {	pect to another layer} ecting; Fastening Froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails}	5/04 5/06 5/08	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials
3/36 3/3601 3/3602	res . Conn . { of structure structur	pect to another layer} ecting; Fastening Froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} Froof covering supported directly by the	5/04 5/06	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated
3/36 3/3601 3/3602 3/3603	res Conn (of structure lay E0) (figure lay E0)	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the ff structure (E04D 3/3607, E04D 3/3608,	5/04 5/06 5/08	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated
3/36 3/3601 3/3602 3/3603	res Conn (of structure) E0 (if	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the ff structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)}	5/04 5/06 5/08 5/10	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen
3/36 3/3601 3/3602 3/3603	res Conn (of structure) E0 (if	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the ff structure (E04D 3/3607, E04D 3/3608,	5/04 5/06 5/08	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated
3/3601 3/3601 3/3602 3/3603 3/3605	res Conn (of structure lay E0. (of structure	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the ff structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)}	5/04 5/06 5/08 5/10	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads
3/3601 3/3601 3/3602 3/3603 3/3605	res Conn (of structure lay E0. (of structure lay E0. (of structure lay E0. (of root E0. (of tthe lay E0. (of	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the ef structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} the fastening means being screws or nails}	5/04 5/06 5/08 5/10 5/12	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads Fastening means therefor
3/3601 3/3601 3/3602 3/3603 3/3605	res Conn (of structure lay E0. (of structure lay E0. (of structure lay E0. (of root E0. (of the ada	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the ef structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} the fastening means being screws or nails} e fastening means comprising spacer means	5/04 5/06 5/08 5/10	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads
3/3601 3/3601 3/3602 3/3603 3/3605 3/3606 3/3607	res Conn (of structure lay E0. (of structure lay E0. (of root E0. (the ada covers)	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the eff structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} the fastening means being screws or nails} e fastening means comprising spacer means upted to the shape of the profiled roof vering}	5/04 5/06 5/08 5/10 5/12	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads Fastening means therefor
3/3603 3/3605 3/3606 3/3607 3/3608	res Conn (of structure lay be left to be left to left	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the eff structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} the fastening means being screws or nails} e fastening means comprising spacer means epted to the shape of the profiled roof vering} r double roof covering or overroofing}	5/04 5/06 5/08 5/10 5/12	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads Fastening means therefor  (characterised by the location of the fastening
3/3601 3/3601 3/3602 3/3603 3/3605 3/3606 3/3607	res Conn (of structure to the structure	pect to another layer}  ecting; Fastening  froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)}  The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails}  froof covering supported directly by the ff structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} the fastening means being screws or nails} e fastening means comprising spacer means upted to the shape of the profiled roof vering} or double roof covering or overroofing} specially-profiled marginal portions of the	5/04 5/06 5/08 5/10 5/12 5/14 5/141	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads Fastening means therefor  fcharacterised by the location of the fastening means}
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3/36 3/3601 3/3602 3/3603 3/3605 3/3606 3/3607 3/3608 3/361 2003/3612	res Conn (of structure lay be less than the lay be lay be lay be less than the lay be lay be lay be lay be lay be	pect to another layer}  ecting; Fastening froof covering supported by the roof facture with interposition of a insulating for (E04D 3/3607, E04D 3/3608,  4D 3/361 - E04D 3/369 take precedence)}  The fastening means comprising elongated froofiles installed in or on the insulation layer}  It he fastening means being screws or nails}  Froof covering supported directly by the froof structure (E04D 3/3607, E04D 3/3608,  4D 3/361 - E04D 3/369 take precedence)}  It he fastening means being screws or nails} froof structure (E04D 3/369 take precedence)  The fastening means comprising spacer means for the fastening means comprising spacer means for the shape of the profiled roof for ing} froof covering or overroofing} froof covering or overroofing froof specially-profiled marginal portions of the for or sheets  Separate fastening elements fixed to the foof structure and comprising plastic parts for forwooding thermal bridges}	5/04 5/06 5/08 5/10 5/12 5/14 5/141 5/142 5/143 5/144 5/145 5/146	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads Fastening means therefor  fcharacterised by the location of the fastening means  fin the field of the flexible material  fmechanical fastening means  flossore fastening means, e.g. discs or clips  Linear fastening means, e.g. strips  Linear fastening means, e.g. strips
3/36 3/3601 3/3602 3/3603 3/3605 3/3606 3/3607 3/3608 3/361 2003/3612	res Conn (of structure lay be less than the lay be lay be lay be less than the lay be less than the lay be less th	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the eff structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} the fastening means being screws or nails} e fastening means comprising spacer means upted to the shape of the profiled roof vering} r double roof covering or overroofing} specially-profiled marginal portions of the bas or sheets Separate fastening elements fixed to the coof structure and comprising plastic parts for twoiding thermal bridges} Separate fastening elements fixed to the roof	5/04 5/06 5/08 5/10 5/12 5/14 5/141 5/142 5/143 5/144 5/145 5/146 5/147	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads Fastening means therefor (characterised by the location of the fastening means) (falong the edge of the flexible material) (fin the field of the flexible material) (fin the field of the flexible material) (fin the field of the flexible material) (falong the edge of the flexible material) (falong the edge of the flexible material) (falong the flexible material) (falong the flexible material) (falong the flexible material)
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3/36 3/3601 3/3602 3/3603 3/3605 3/3606 3/3607 3/3608 3/361 2003/3612	res Conn (of structure) EO (vector) For the structure) For the structure For the str	pect to another layer}  ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)}  The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the eff structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} the fastening means being screws or nails} e fastening means comprising spacer means upted to the shape of the profiled roof vering} er double roof covering or overroofing} specially-profiled marginal portions of the bos or sheets  Separate fastening elements fixed to the coof structure and comprising plastic parts for twoiding thermal bridges} Separate fastening elements fixed to the roof structure and consisting of parts permitting elative movement to each other, e.g. for thermal expansion}	5/04 5/06 5/08 5/10 5/12 5/14 5/141 5/142 5/143 5/144 5/145 5/146 5/147 5/148 5/149	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads Fastening means therefor (characterised by the location of the fastening means) (falong the edge of the flexible material) (fin the field of the flexible material) (fin the field of the flexible material) (fastening means, e.g. discs or clips) (fastening by gluing) (fastening by welding)
3/36 3/3601 3/3602 3/3603 3/3605 3/3606 3/3607 3/3608 3/361 2003/3612	res Conn (of structure to the structure	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the eff structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} the fastening means being screws or nails} e fastening means comprising spacer means epted to the shape of the profiled roof evering} r double roof covering or overroofing} specially-profiled marginal portions of the est or sheets Separate fastening elements fixed to the coof structure and comprising plastic parts for evoiding thermal bridges} Separate fastening elements fixed to the roof etructure and consisting of parts permitting elative movement to each other, e.g. for thermal expansion} with locking or snapping edges located in the	5/04 5/06 5/08 5/10 5/12 5/14 5/141 5/142 5/143 5/144 5/145 5/146 5/147 5/148	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads Fastening means therefor (characterised by the location of the fastening means) (falong the edge of the flexible material) (fin the field of the flexible material) (fin the field of the flexible material) (fastening means, e.g. discs or clips) (fastening by gluing) (fastening by welding)  Roof covering {exclusively consisting of} sealing
3/36 3/3601 3/3602 3/3603 3/3605 3/3606 3/3607 3/3608 3/361 2003/3612	res Conn (of structure to the structure	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the ff structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} the fastening means being screws or nails} e fastening means being screws or nails} e fastening means comprising spacer means appeared to the shape of the profiled roof vering} r double roof covering or overroofing} specially-profiled marginal portions of the bos or sheets Separate fastening elements fixed to the coof structure and comprising plastic parts for twoiding thermal bridges} Separate fastening elements fixed to the roof structure and consisting of parts permitting elative movement to each other, e.g. for thermal expansion} with locking or snapping edges located in the thickness of the slab or sheet}	5/04 5/06 5/08 5/10 5/12 5/14 5/141 5/142 5/143 5/144 5/145 5/146 5/147 5/148 5/149 <b>7/00</b>	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads Fastening means therefor  {characterised by the location of the fastening means}  { along the edge of the flexible material}  { fin the field of the flexible material}  { Mechanical fastening means}  { Discrete fastening means, e.g. discs or clips}  { Inot perforating the flexible material}  { fastening by gluing}  { fastening by welding}  Roof covering {exclusively consisting of} sealing masses applied in situ; Gravelling of flat roofs
3/36 3/3601 3/3602 3/3603 3/3605 3/3606 3/3607 3/3608 3/361 2003/3612	res Conn (of structure to the structure	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the ff structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} the fastening means being screws or nails} e fastening means being screws or nails} e fastening means comprising spacer means appeared to the shape of the profiled roof vering} r double roof covering or overroofing} specially-profiled marginal portions of the cos or sheets Separate fastening elements fixed to the coof structure and comprising plastic parts for twoiding thermal bridges} Separate fastening elements fixed to the roof tructure and consisting of parts permitting elative movement to each other, e.g. for thermal expansion} with locking or snapping edges located in the thickness of the slab or sheet} by locking the edge of one slab or sheet within	5/04 5/06 5/08 5/10 5/12 5/14 5/141 5/142 5/143 5/144 5/145 5/146 5/147 5/148 5/149	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads Fastening means therefor (characterised by the location of the fastening means) (falong the edge of the flexible material) (fin the field of the flexible material) (fin the field of the flexible material) (fin the field of the flexible material) (fastening means, e.g. discs or clips) (fastening by gluing) (fastening by gluing) (fastening by welding)  Roof covering {exclusively consisting of} sealing masses applied in situ; Gravelling of flat roofs (characterised by loose or embedded gravel or
3/36 3/3601 3/3602 3/3603 3/3605 3/3606 3/3607 3/3608 3/361 2003/3612 2003/3615	res Conn . {of stru lay E0 { . {of roo E0 { th ada cov . {fo . by slai {  t t { t t t t t t t	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the ff structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} the fastening means being screws or nails} e fastening means being screws or nails} e fastening means comprising spacer means appear to the shape of the profiled roof vering} r double roof covering or overroofing} specially-profiled marginal portions of the cos or sheets Separate fastening elements fixed to the coof structure and comprising plastic parts for avoiding thermal bridges} Separate fastening elements fixed to the roof structure and consisting of parts permitting elative movement to each other, e.g. for thermal expansion} with locking or snapping edges located in the thickness of the slab or sheet} by locking the edge of one slab or sheet within the profiled marginal portion of the adjacent	5/04 5/06 5/08 5/10 5/12 5/14 5/141 5/142 5/143 5/144 5/145 5/146 5/147 5/148 5/149 <b>7/00</b>	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of plastics by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads Fastening means therefor  {characterised by the location of the fastening means}  { along the edge of the flexible material}  { fin the field of the flexible material}  { Mechanical fastening means}  { Discrete fastening means, e.g. discs or clips}  { Inot perforating the flexible material}  { fastening by gluing}  { fastening by welding}  Roof covering {exclusively consisting of} sealing masses applied in situ; Gravelling of flat roofs
3/36 3/3601 3/3602 3/3603 3/3605 3/3606 3/3607 3/3608 3/361 2003/3612 2003/3615	res Conn . {of stru lay E0 { . {of roo E0 { th ada cov . {fo . by slai {  t t { t t t t t t t	pect to another layer} ecting; Fastening froof covering supported by the roof acture with interposition of a insulating er (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} The fastening means comprising elongated profiles installed in or on the insulation layer} the fastening means being screws or nails} froof covering supported directly by the ff structure (E04D 3/3607, E04D 3/3608, 4D 3/361 - E04D 3/369 take precedence)} the fastening means being screws or nails} e fastening means being screws or nails} e fastening means comprising spacer means appeared to the shape of the profiled roof vering} r double roof covering or overroofing} specially-profiled marginal portions of the cos or sheets Separate fastening elements fixed to the coof structure and comprising plastic parts for twoiding thermal bridges} Separate fastening elements fixed to the roof tructure and consisting of parts permitting elative movement to each other, e.g. for thermal expansion} with locking or snapping edges located in the thickness of the slab or sheet} by locking the edge of one slab or sheet within	5/04 5/06 5/08 5/10 5/12 5/14 5/141 5/142 5/143 5/144 5/145 5/146 5/147 5/148 5/149 <b>7/00</b>	Group E04D 5/12 takes precedence over groups E04D 5/02 - E04D 5/10  of materials impregnated with sealing substances, e.g. roofing felt by making use of metal foils by making use of other materials by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen specially modified, e.g. perforated, with granulated surface, with attached pads Fastening means therefor (characterised by the location of the fastening means) (falong the edge of the flexible material) (fin the field of the flexible material) (fin the field of the flexible material) (fin the field of the flexible material) (fastening means, e.g. discs or clips) (fastening by gluing) (fastening by gluing) (fastening by welding)  Roof covering {exclusively consisting of} sealing masses applied in situ; Gravelling of flat roofs (characterised by loose or embedded gravel or

elements

9/00	Roof covering by using straw, thatch, or like materials (impregnation against incendiary damage	2013/0345	• {with skylight shafts extending from roof to ceiling}
	<u>B27K</u> )	13/035	characterised by having movable parts
11/00	Roof covering, as far as not restricted to features covered by only one of groups <u>E04D 1/00</u> - <u>E04D 9/00</u> ; Roof covering in ways not provided for by groups <u>E04D 1/00</u> - <u>E04D 9/00</u> , {e.g. built-up roofs, elevated load-supporting roof coverings}		{(preventing the spread of fire A62C 3/00; roof structures with movable roof parts E04B 7/16; operating mechanisms for sky-lights E05F 11/00; automatically acting closers E05F 17/00)}  • {the parts pivoting about a fixed axis}  • • {the parts being of domed or pyramidal}
11/002	• {consisting of two or more layers, at least one of the		shape }
11/002	layers permitting turfing of the roof}	13/0354	• • {the parts being flat}
11/005	• {Supports for elevated load-supporting roof	13/0355	• • {The parts being of vaulted shape}
11/000	coverings}	13/0357	• {the parts pivoting about an axis supported on a
11/007	• • {Height-adjustable spacers}		hinged frame or arms}
11/02	<ul> <li>Build-up roofs, i.e. consisting of two or more layers bonded together <u>in situ</u>, at least one of the layers being of watertight composition (gravelling of flat roofs <u>E04D 7/00</u>; venting or ventilation <u>E04D 13/17</u>)</li> </ul>	13/04 . R	• {the parts moving, in their own plane, e.g. rolling or sliding, or moving in parallel planes with or without an additional movement, e.g. both pivoting and rolling or sliding} toof drainage; Drainage fittings in flat roofs, balconies or the like}(gutter tiles E04D 1/30; gutter
12/00	Non-structural supports for roofing materials, e.g. battens, boards ( $\underline{E04D\ 11/02}$ {and $\underline{E04D\ 13/16}$ } take	sl	labs <u>E04D 3/40</u> ; {vessels for collecting rainwater <u>603B 3/03</u> ;} street gullies <u>E03F 5/04</u> )
	precedence; {self-supporting slabs with non-structural	13/0404	{Drainage on the roof surface}
	supports for roofing materials <u>E04B 7/205</u> })	13/0409	• {Drainage outlets, e.g. gullies}
12/002	• {Sheets of flexible material, e.g. roofing tile	2013/0413	• • {Strainers for drainage outlets}
12/001	underlay}	2013/0418	• • {with de-icing devices or snow melters}
12/004	• {Battens}	2013/0422	• • {for draining water above the roof level, e.g.
12/006	• • {Batten-supporting means}		gullies with overflow ports}
12/008	• • • {Ridge-batten brackets}	2013/0427	• • { with means for controlling the flow in the
13/00	Special arrangements or devices in connection with roof coverings; {Protection against birds;} Roof drainage {; Sky-lights} (ventilation tiles		<ul><li>outlet}</li><li>• {with horizontal evacuation over the border of the roof}</li></ul>
	E04D 1/30; ventilation slabs E04D 3/40; internal		• • {with sealing means}
	channels <u>E04F 17/00</u> )		• • • {on multiple levels}
13/002	• {Provisions for preventing vegetational growth, e.g.		• {Drainage channels}
12/001	fungi, algae or moss}		• • {on inclined roofs}
13/004	• {Protection against birds, mice or the like (scaring devices for birds in general <u>A01M 29/00</u> )}		• • • {at the intersection of roof surfaces, e.g. roof valleys}
13/006	• {Provisions for detecting water leakage}	13/0459	• {Drainage borders, e.g. dripping edges, gravel
13/008	• {Provisions for reducing rain noise}	2013/0463	stops or dispersers}  • {Dispersers}
13/02	Roof-covering aspects of dormer windows		. {Dispersers} {Drip edges}
	(E04D 13/14 takes precedence; structures therefor		• • {Drip edges} • • {Gravel stops}
12/02	E04B 7/18)  • Sky-lights; Domes; Ventilating sky-lights		• {Underroof drainage layers (layers permitting
13/03	(E04D 13/14 takes precedence; structures therefor, {e.g. dormer windows} E04B 7/18; {saw-tooth		turfing of the roof $\underline{E04D \ 11/002}$ )}
12/0205	roofs with light-transmission E04B 7/12})		• {Drainage guiding provisions, e.g. deflectors or stimulation by inclined surfaces}
13/0305	<ul> <li>{Supports or connecting means for sky-lights of flat or domed shape}</li> </ul>		. (Deflectors)
12/021			• {of condensation water or infiltrated rainwater}
13/031	<ul><li>. (characterised by a frame for connection to an inclined roof)</li></ul>		• {to storage tanks}
13/0315	{characterised by a curb frame}	13/064	Gutters {(drainage channels on the roof
13/0313	Supports or connecting means for sky-lights of		surface E04D 13/0445; gutters for greenhouses A01G 9/1476)}
13/032	vaulted shape}	13/0641	• {Gutter ends}
13/0325	• • {provided with ventilating means (roof		• {Gutter ends} • {Gutter corners}
15,0525	ventilation F24F 7/02)}		• {Connections between gutter and down pipe}
13/033	• • {provided with means for controlling the light-		<ul> <li>{Connections between gutter and down pipe}</li> <li>{made of concrete or stone-like material}</li> </ul>
13/033	transmission or the heat-reflection, (e.g. shields,		
	reflectors, cleaning devices)}	13/0648	• {comprising provisions for heat insulation, e.g.
13/0335	• • {Skylight guards, security devices protecting	13/068	<ul><li>an insulation layer}</li><li>Means for fastening gutter parts together</li></ul>
	skylights or preventing objects or persons from		<ul> <li>Means for fastening gutter parts together</li> <li>{in combination with hanging means}</li> </ul>
	falling through skylight openings}	15/0085	• • {III collidination with nanging means}
2013/034	• • {Daylight conveying tubular skylights}		

13/072	• • • Hanging means (in combination with means for fastening gutter parts together	13/1476	• • • { wherein the parts extending above the roof have a generally circular cross-section}
	{ <u>E04D 13/0685</u> })	13/1478	• • • {Junctions to walls extending above the roof}
13/0722	• • • { extending mainly under the gutter }	13/15	<ul> <li>Trimming strips; Edge strips; Fascias; {Expansion</li> </ul>
13/0725	• • • { situated above or inside the gutter}		joints for roofs (wall copings E04D 3/405;
13/0727	• • • { situated mainly at the rear side of the		drainage borders <u>E04D 13/0459</u> ; joints in general
	gutter}		E04B 1/68)}
13/076	. Devices or arrangements for removing snow,	13/151	• • {Expansion joints for roofs}
	ice or debris from gutters or for preventing	13/152	• • with ventilating means {in soffits or fascias; (on
	accumulation thereof		the eaves of the roof $\underline{E04D \ 13/178}$ )
13/0762	• • • {De-icing devices or snow melters}	13/155	• retaining the roof sheathing
13/0765	{Cleaning tools}	13/158	• covering the overhang at the eave side, e.g.
13/0767	• • {Strainers at connection between gutter and	13/130	soffits, or the verge of saddle roofs
13/0/0/	down pipe}	13/1585	{covering the verge of saddle roofs (gable tiles
13/08	Down pipes; Special clamping means therefor	15/1505	<u>E04D 1/30)</u> }
13/00	(clamping pipes in general F16B, F16L)	13/16	• Insulating devices or arrangements in so far as the
2013/0806	• • {Details of lower end of down pipes, e.g.	13/10	roof covering is concerned, {e.g. characterised by
2013/0800	connection to water disposal system}		the material or composition of the roof insulating
2012/0012			material or its integration in the roof structure}
	{Water diverters}	13/1606	• • {Insulation of the roof covering characterised
	{Down pipe branches}	13/1000	by its integration in the roof structure (self-
2013/0826	• • • {Passages of down pipes through walls or		supporting insulating slabs <u>E04B 7/22</u> ,
	floors}		E04B 7/225)}
2013/0833	• • · {Elbow pieces}	13/1612	• • • {the roof structure comprising a supporting
2013/084	• • • {Means for fixing down pipes to structure}	13/1012	framework of roof purlins or rafters}
2013/0846	• • • {Interconnecting down pipe parts}	13/1618	• • • { with means for fixing the insulating
2013/0853	• • • {Valves for controlling the rain water flow}	13/1016	material between the roof covering and the
2013/086	• • • {Filters}		upper surface of the roof purlins or rafters}
2013/0866	• • • {Access opening for cleaning; Devices for	13/1625	• • • { with means for supporting the insulating
	avoiding cumulation of debris}	13/1023	material between the purlins or rafters
2013/0873	{Rain water reservoirs integrated in down		(insulating layers disposed between
	pipes}		two longitudinal supporting elements
2013/088	• • • {De-icing devices or snow melters}		E04B 1/7654)}
2013/0886	• • • {Devices for preventing climbing on down	13/1631	• • • • {the means deriving from the nature or the
	pipes}	13/1031	shape of the insulating material itself}
2013/0893	{incorporated in building structure}	13/1637	• • • • {the roof purlins or rafters being mainly
13/10	• Snow traps {; Removing snow from roofs; Snow	13/1037	insulated from the interior, e.g. the insulating
	melters}		material being fixed under or suspended
13/103	• • {De-icing devices or snow melters (for drainage		from the supporting framework}
	outlets <u>E04D 13/0409</u> , for gutters <u>E04D 13/0762</u> ,	13/1643	• • • {the roof structure being formed by load
	for down pipes <u>E04D 13/08</u> )}		bearing corrugated sheets, e.g. profiled sheet
13/106	• • {Snow removing devices (for gutters		metal roofs}
	E04D 13/076)}	13/165	{Double skin roofs}
13/12	. Devices or arrangements allowing walking on the	13/1656	{Closure strips or elements filling the
	roof or in the gutter	13/1030	spaces between the corrugated sheets and a
13/14	Junctions of roof sheathings to chimneys or other		supporting wall}
	parts extending above the roof	13/1662	• • • {Inverted roofs or exteriorly insulated roofs}
13/1407	• {for flat roofs}	13/1668	{the insulating material being masses or
13/1415	• • {Junctions to walls extending above the	15/1000	granules applied in situ}
15/1113	perimeter of the roof (trimming strips, edge	13/1675	• • • {on saddle-roofs or inclined roof surfaces}
	strips or fascias retaining the roof sheathing		
	E04D 13/155)}	13/1681	<ul> <li>• { Insulating of pre-existing roofs with or without ventilating arrangements}</li> </ul>
2013/1422	• • {Parapet building elements for retaining the roof	13/1687	<ul> <li>• {the insulating material having provisions for roof</li> </ul>
	flashing}	13/1007	drainage}
13/143	with ventilating means {in junctions of roof	12/1602	
10,110	sheathings to parts extending above the roof}	13/1693	{the upper surface of the insulating material
13/147	specially adapted for inclined roofs {(trays for	12/17	forming an inclined surface}
	cavity walls E04B 1/70)}	13/17	• Ventilation of roof coverings not otherwise
13/1471	• • • {using a hinge mechanism for adaptation to the	12/172	provided for (ventilation of rooms or spaces <u>F24F</u> )
13/17/1	inclined roof}	13/172	• • {Roof insulating material with provisions for or
13/1473	• • • {specially adapted to the cross-section of the		being arranged for permitting ventilation of the roof covering}
15,1775	parts extending above the roof}	12/174	— ·
13/1475	• • • { wherein the parts extending above the roof	13/174	• • {on the ridge of the roof}
10,1170	have a generally rectangular cross-section}	13/176	<ul> <li>. (formed by flexible material suitable to be rolled up)</li> </ul>
	J ,		roned up;

13/178	• • {on the eaves of the roof}
15/00	Apparatus or tools for roof working
15/003	• {for removing roof material (for floor coverings <u>E04G 23/006</u> )}
15/006	• {for cleaning the roof (for cleaning gutters <u>E04D 13/0765</u> ; for removing snow from roofs <u>E04D 13/106</u> )}
15/02	• for roof coverings comprising tiles, shingles, or like roofing elements {(E04D 15/003 takes precedence)}
15/025	• • {Templates, gauges or spacers for installing roof tiles or roof laths (templates for rafters E04G 21/1891)}
15/04	<ul> <li>for roof coverings comprising slabs, sheets or flexible material</li> </ul>
2015/042	• • {Fixing to the roof supporting structure}
2015/045	• • · {by nailing}
2015/047	• • · {by screwing}
15/06 15/07	<ul> <li>for handling roofing or sealing material in roll form</li> <li>for handling roofing or sealing material in bulk form</li> </ul>