# CPC COOPERATIVE PATENT CLASSIFICATION

# E FIXED CONSTRUCTIONS

# **BUILDING**

# E04 BUILDING

# E04B GENERAL BUILDING CONSTRUCTIONS; WALLS, e.g. PARTITIONS; ROOFS; FLOORS; CEILINGS; INSULATION OR OTHER PROTECTION OF BUILDINGS

(border constructions of opening in walls, floors or ceilings <u>E06B 1/00</u>; {electromagnetic shielding <u>H05K 9/0001</u>})

# NOTES

- 1. This subclass <u>covers</u> working methods used in constructing new buildings and analogous working methods on existing buildings. Other working methods on existing buildings, except those for insulating, are classified in group <u>E04G 23/00</u>.
- 2. In this subclass, the following term is used with the meaning indicated:
  - "ceiling" includes all the finishing material concealing the underside of the loadcarrying ceiling structure or roof structure.

#### WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

 E04B 1/682
 covered by
 E04B 1/68

 E04B 1/684
 covered by
 E04B 1/68

 E04B 1/686
 covered by
 E04B 1/68

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	Constructions in general; Structures which are not restricted either to walls, e.g. partitions, or floors or ceilings or roofs (scaffolds, shutterings E04G; structures specially adapted for buildings for special	1/046 1/06 1/08	<ul> <li> {using reinforcement loops protruding from the elements}</li> <li> the elements being prestressed</li> <li>. the elements consisting of metal</li> </ul>
	purposes, general layout of buildings, e.g. modular	1/10	• the elements consisting of wood
	co-ordination, <u>E04H</u> )	1/12	• the elements consisting of other material
1/0007	• {Base structures; Cellars}	1/14	the elements being composed of two or more
1/0015	• • {Cellars constructed from prefabricated units}	1/1.	materials (of reinforced concrete E04B 1/04)
1/0023	• {Building characterised by incorporated canalisations ( <u>E04B 1/34869</u> takes precedence)}	1/16	• Structures made from masses, e.g. of concrete, cast or similarly formed <u>in situ</u> with or without making
1/003	• {Balconies; Decks}		use of additional elements, such as permanent
1/0038	<ul> <li>{Anchoring devices specially adapted therefor with means for preventing cold bridging}</li> </ul>		forms, substructures to be coated with load-bearing material (E04B 1/32 - E04B 1/36 take precedence)
1/0046	• {Loggias}	1/161	• • {with vertical and horizontal slabs, both being
2001/0053	• {Buildings characterised by their shape or layout		partially cast <u>in situ</u> }
2001/0061	grid} {Buildings with substantially curved horizontal	1/162	• • • {with a central core, used as form, in order to form a continuous concrete shell}
	cross-section, e.g. circular}	1/163	• • {with vertical and horizontal slabs, only
2001/0069	• • {Prismatic shaped buildings with substantially triangular vertical cross-section}		the vertical slabs being partially cast <u>in situ</u> (E04B 2/86 takes precedence)}
2001/0076	• • {Buildings with specific right-angled horizontal layout grid}	1/164	<ul> <li>{ with vertical and horizontal slabs, only the horizontal slabs being partially cast <u>in situ</u>}</li> </ul>
2001/0084	• • {Buildings with non right-angled horizontal layout grid, e.g. triangular or hexagonal}	1/165	• • { with elongated load-supporting parts, cast <u>in situ</u> ( <u>E04B 1/161</u> , <u>E04B 1/163</u> and <u>E04B 1/164</u> take
2001/0092	• • • {Small buildings with hexagonal or similar horizontal cross-section}	1/166	<ul><li>precedence)}</li><li>• {with curved surfaces, at least partially cast in</li></ul>
1/02	<ul> <li>Structures consisting primarily of load- supporting, block-shaped, or slab-shaped elements</li> </ul>		<u>situ</u> in order to make a continuous concrete shell structure ( <u>E04B 1/169</u> takes precedence)}
	( <u>E04B 1/32</u> - <u>E04B 1/36</u> take precedence)	1/167	• • { with permanent forms made of particular
1/04	• the elements consisting of concrete, e.g.	1/1.60	materials, e.g. layered products}
	reinforced concrete, or other stone-like material	1/168	{flexible}
1/043	• • • {Connections specially adapted therefor}	1/169	· · · · {inflatable}

1/18	Structures comprising elongated load- supporting parts, e.g. columns, girders, skeletons	2001/199 • • • {Details of roofs, floors or walls supported by the framework}
	( <u>E04B 1/32</u> - <u>E04B 1/36</u> take precedence; elongated load-supporting parts as elements, trusses, truss-like	2001/1993 • • • {Details of framework supporting structure, e.g. posts or walls}
	structures E04C 3/00) NOTE	2001/1996 {Tensile-integrity structures, i.e. structures comprising compression struts connected
	Group <u>E04B 1/19</u> takes precedence over groups	through flexible tension members, e.g. cables}
	E04B 1/20 - E04B 1/30.	1/20 the supporting parts consisting of concrete, e.g. reinforced concrete, or other stonelike material
	{This Note corresponds to IPC Note (1) relating	1/21 Connections specially adapted therefor
	to <u>E04B 1/19</u> , <u>E04B 1/20</u> - <u>E04B 1/30</u> .}	1/215 {comprising metallic plates or parts}
1/185	• • {Connections not covered by <u>E04B 1/21</u> and	1/22 with parts being prestressed
1/103	E04B 1/2403, e.g. connections between structural	1/24 the supporting parts consisting of metal
	parts of different material}	1/2403 {Connection details of the elongated load-
1/19	Three-dimensional framework structures	supporting parts}
1/1903	• • • {Connecting nodes specially adapted therefor}	2001/2406 {Connection nodes}
1/1906	• • • { with central spherical, semispherical or polyhedral connecting element }	2001/2409 {Hooks, dovetails or other interlocking connections}
1/1909	• • • {with central cylindrical connecting	2001/2415 {Keyhole connections}
1/1012	element}	2001/2415 {Brackets, gussets, joining plates} 2001/2418 {Details of bolting}
1/1912	<ul><li> {with central cubical connecting element}</li><li> {with strut engaging means at the edges of</li></ul>	2001/2421 {Socket type connectors}
2001/1913	the cube}	2001/2424 {Clamping connections other than bolting or
2001/1918	• • • { with connecting nodes having flat radial	riveting}
	connecting surfaces}	2001/2427 {using adhesives or hardening masses}
2001/1921	• • • • { with connecting nodes having radial	2001/243 {Assembling by non resilient deformation
	connecting stubs}	other than riveting}
	{Struts specially adapted therefor}	2001/2433 {using a removable key}
	(of essentially circular cross section)	2001/2436 {Snap-fit connections} 2001/2439 {Adjustable connections, e.g. using
	• • • • { with flattened connecting parts, e.g. ends }	elongated slots or threaded adjustment elements}
	• • • {of polygonal, e.g. square, cross section} • • • • {Winged profiles, e.g. with a L-, T-, U- or X-	2001/2442 {Connections with built-in weakness points}
2001/1/30	shaped cross section}	2001/2445 {Load-supporting elements with
2001/1939	{Inflatable struts}	reinforcement at the connection point other
	• • • {Struts adjustable in length}	than the connector}
	• • • • {Wooden struts}	2001/2448 {Connections between open section profiles}
	{Concrete struts}	2001/2451 {Connections between closed section profiles}
	• • • {uninterrupted struts situated in the outer planes of the framework}	2001/2454 {Connections between open and closed section profiles}
2001/1954	{uninterrupted struts connecting alternately	2001/2457 {Beam to beam connections}
	with the outer planes of the framework, e.g. zig-zagging struts}	2001/246 {Post to post connections}
2001/1957	{Details of connections between nodes and	2001/2463 {Connections to foundations}
2001/1907	struts}	2001/2466 {Details of the elongated load-supporting
2001/196	• • • • {Screw connections with axis parallel to the	parts}
	main axis of the strut}	2001/2469 {Profile with an array of connection holes}
2001/1963	• {Screw connections with axis at an angle, e.g. perpendicular, to the main axis of the	2001/2472 {Elongated load-supporting part formed from a number of parallel profiles}
	strut}	2001/2475 {Profile with an undercut grooves for
2001/1966	• • • {Formlocking connections other than screw connections}	connection purposes}
2001/1969	{Ball and socket type connection}	2001/2478 {Profile filled with concrete} 2001/2481 {Details of wall panels}
	{Welded or glued connection}	2001/2484 {Details of wait panets}
	{Frameworks where the struts are directly	2001/2487 {Portico type structures}
	connected to each other, i.e. without interposed	2001/249 {Structures with a sloping roof}
	connecting nodes or plates}	2001/2493 {Structures with a vaulted roof}
2001/1978	• • • {Frameworks assembled from preformed	2001/2496 {Shear bracing therefor}
2001/1001	subframes, e.g. pyramids}	1/26 • the supporting parts consisting of wood
	• • {characterised by the grid type of the outer planes of the framework}	1/2604 {Connections specially adapted therefor (shear dowels <u>E04B 1/486</u> , <u>E04B 1/49</u> )}
	<ul><li>{rectangular, e.g. square, grid}</li><li>{triangular grid}</li></ul>	1/2608 {Connectors made from folded sheet metal $(\underline{E04B\ 1/2612}\ takes\ precedence)}$

1/2612 {Joist hangers}  2001/2616 {Hinged connections of wooden members}  2001/262 {Connection node with interlocking of	<ul> <li>Extraordinary structures, e.g. with suspended or cantilever parts supported by masts or tower-like structures enclosing elevators or stairs; Features</li> </ul>
specially shaped wooden members, e.g. puzzle type connection}	relating to the elastic stability (E04B 1/342, E04B 1/343, E04B 1/348 take precedence; for floors
2001/2624 {with dovetail-type connections}	E04B 5/43; buildings for special purposes, e.g.
2001/2628 {Interlocking connectors, e.g. with hooks	withstanding earthquake, <u>E04H</u> ) 1/3404 • {supported by masts or tower-like structures}
or dovetails, added to the elongated wooden	1/3404 {supported by masts or tower-like structures} 1/3408 {Extraordinarily-supported small buildings}
members}	1/3412 {mainly supported small buildings}
2001/2632 { with dovetail-type connections } 2001/2636 { with connectors located in slots of the	footing (E04B 1/3416 takes precedence)}
wooden members}	1/3416 • • {Structures comprising mainly a central support column and a cantilevered roof}
2001/264 {Glued connections}	1/342 • Structures covering a large free area, whether
2001/2644 {Brackets, gussets or joining plates}	open-sided or not, e.g. hangars, halls (roof trusses
2001/2648 {located in slots of the elongated wooden members}	<u>E04C 3/00</u> ; non-structural features for specified purposes, <u>see</u> the relevant groups of <u>E04H</u> )
2001/2652 {Details of nailing, screwing, or bolting}	1/343 • Structures characterised by movable, separable,
2001/2656 {Bent or curved bolts}	or collapsible parts, e.g. for transport (movable
2001/266 {Socket type connectors}	roof parts <u>E04B 7/16</u> ; floatable buildings <u>B63B</u> ;
2001/2664 { using a removable key}	small prefabricated buildings, transportable as a
2001/2668 {for members with a round cross-section}	whole, <u>E04H 1/12</u> ; small garages <u>E04H 6/02</u> ; tents
2001/2672 {for members formed from a number of	or canopies, in general <u>E04H 15/00</u> )
parallel sections} 2001/2676 {Connector nodes}	WARNING
2001/268 {Connection to foundations}	Group E04B 1/343 is impacted by
2001/2684 {with metal connectors}	reclassification into groups <u>E04B 1/34305</u> ,
2001/2688 {self adjusting, e.g. for compensation of	E04B 1/3431, E04B 1/34312, E04B 1/34315,
shrinkage}	E04B 1/34317, E04B 1/34321, E04B 1/34326,
2001/2692 {End to end connections of elongated	E04B 1/34331, E04B 1/34384, E04B 1/3444,
members along their common longitudinal	E04B 1/3441, E04B 1/3442 - E04B 1/3444, E04B 1/3445, E04B 1/3447, E04B 1/3448,
axis}	E04B 1/3449, E04B 1/345 and E04B 1/3455.
2001/2696 {Shear bracing}	All groups listed in this Warning should be
<ul> <li>1/28 . the supporting parts consisting of other material</li> <li>1/30 . the supporting parts being composed of two or</li> </ul>	considered in order to perform a complete
more materials; Composite steel and concrete	search.
constructions (of reinforced concrete E04B 1/20)	1/2/205 (4-1:-)
1/32 • Arched structures; Vaulted structures; Folded	
structures ({E04B 1/345 takes precedence;} vaulted	1/34305 {telescopic}
	WARNING
roofs <u>E04B 7/08</u> )	
1/3205 {Structures with a longitudinal horizontal axis,	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of
1/3205 • {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of documents from group E04B 1/343.
<ul> <li>1/3205 . {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}</li> <li>1/3211 . {Structures with a vertical rotation axis or the</li> </ul>	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be
<ul> <li>1/3205 . {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}</li> <li>1/3211 . {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}</li> </ul>	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete
<ul> <li>1/3205 . {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}</li> <li>1/3211 . {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}</li> <li>2001/3217 . {Auxiliary supporting devices used during</li> </ul>	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be
<ul> <li>1/3205 . {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}</li> <li>1/3211 . {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}</li> <li>2001/3217 . {Auxiliary supporting devices used during erection of the arched structures}</li> </ul>	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete
<ul> <li>1/3205 . {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}</li> <li>1/3211 . {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}</li> <li>2001/3217 . {Auxiliary supporting devices used during erection of the arched structures}</li> </ul>	WARNING  Groups E04B 1/34305 - E04B 1/34312 are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting} 1/34312 {Vertical telescopic structures}
<ul> <li>1/3205 . {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}</li> <li>1/3211 . {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}</li> <li>2001/3217 . {Auxiliary supporting devices used during erection of the arched structures}</li> <li>2001/3223 . {Theorical polygonal geometry therefor}</li> </ul>	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting}
<ul> <li>1/3205 . • {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}</li> <li>1/3211 . • {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}</li> <li>2001/3217 . • {Auxiliary supporting devices used during erection of the arched structures}</li> <li>2001/3223 . • {Theorical polygonal geometry therefor}</li> <li>2001/3229 . • {constructed using a boom}</li> </ul>	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting} 1/34312 {Vertical telescopic structures} 1/34315 {characterised by separable parts}
<ul> <li>1/3205 . {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}</li> <li>1/3211 . {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}</li> <li>2001/3217 . {Auxiliary supporting devices used during erection of the arched structures}</li> <li>2001/3223 . {Theorical polygonal geometry therefor}</li> <li>2001/3229 . {constructed using a boom}</li> <li>2001/3235 . {having a grid frame}</li> </ul>	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting} 1/34312 {Vertical telescopic structures} 1/34315 {characterised by separable parts}  WARNING
<ul> <li>1/3205 . {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}</li> <li>1/3211 . {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}</li> <li>2001/3217 . {Auxiliary supporting devices used during erection of the arched structures}</li> <li>2001/3223 . {Theorical polygonal geometry therefor}</li> <li>2001/3229 . {constructed using a boom}</li> <li>2001/3235 . {having a grid frame}</li> <li>2001/3241 {Frame connection details}</li> </ul>	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting} 1/34312 {Vertical telescopic structures} 1/34315 {characterised by separable parts}  WARNING  Groups E04B 1/34315 - E04B 1/34331
<ul> <li>1/3205 . {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}</li> <li>1/3211 . {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}</li> <li>2001/3217 . {Auxiliary supporting devices used during erection of the arched structures}</li> <li>2001/3223 . {Theorical polygonal geometry therefor}</li> <li>2001/3229 . {constructed using a boom}</li> <li>2001/3235 . {having a grid frame}</li> <li>2001/3241 {Frame connection details}</li> <li>2001/3247 {Nodes}</li> </ul>	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting} 1/34312 {Vertical telescopic structures} 1/34315 {characterised by separable parts}  WARNING  Groups E04B 1/34315 - E04B 1/34331  are incomplete pending reclassification of documents from group E04B 1/343.
1/3205 {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}  1/3211 {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}  2001/3217 {Auxiliary supporting devices used during erection of the arched structures}  2001/3223 {Theorical polygonal geometry therefor}  2001/3229 {constructed using a boom}  2001/3235 {having a grid frame}  2001/3241 {Frame connection details}  2001/3252 {Nodes}  2001/3252 {Covering details}  2001/3258 {comprised entirely of a single self-supporting}	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting} 1/34312 {Vertical telescopic structures} 1/34315 {characterised by separable parts}  WARNING  Groups E04B 1/34315 - E04B 1/34331  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be
1/3205 . {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}  1/3211 . {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}  2001/3217 . {Auxiliary supporting devices used during erection of the arched structures}  2001/3223 . {Theorical polygonal geometry therefor}  2001/3229 . {constructed using a boom}  2001/3235 . {having a grid frame}  2001/3241 {Frame connection details}  2001/3252 {Nodes}  2001/3252 {Covering details}  2001/3258 . {comprised entirely of a single self-supporting panel}	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting} 1/34312 {Vertical telescopic structures} 1/34315 {characterised by separable parts}  WARNING  Groups E04B 1/34315 - E04B 1/34331  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete
1/3205 . {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}  1/3211 . {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}  2001/3217 . {Auxiliary supporting devices used during erection of the arched structures}  2001/3223 . {Theorical polygonal geometry therefor}  2001/3229 . {constructed using a boom}  2001/3235 . {having a grid frame}  2001/3241 {Frame connection details}  2001/3247 {Nodes}  2001/3252 {Covering details}  2001/3258 . {comprised entirely of a single self-supporting panel}  2001/3264 {hardened in situ}  2001/327 . {comprised of a number of panels or blocs connected together forming a self-supporting	WARNING  Groups E04B 1/34305 - E04B 1/34312  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting} 1/34312 {Vertical telescopic structures} 1/34315 {characterised by separable parts}  WARNING  Groups E04B 1/34315 - E04B 1/34331  are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be
1/3205 {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}  1/3211 {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}  2001/3217 {Auxiliary supporting devices used during erection of the arched structures}  2001/3223 {Theorical polygonal geometry therefor}  2001/3229 {constructed using a boom}  2001/3235 {having a grid frame}  2001/3241 {Frame connection details}  2001/3247 {Nodes}  2001/3252 {Covering details}  2001/3258 {comprised entirely of a single self-supporting panel}  2001/3264 {hardened in situ}  2001/327 {comprised of a number of panels or blocs connected together forming a self-supporting structure}	Groups E04B 1/34305 - E04B 1/34312 are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting} 1/34312 {Vertical telescopic structures} 1/34315 {characterised by separable parts}  WARNING  Groups E04B 1/34315 - E04B 1/34331 are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/34317 {Set of building elements forming a self-
1/3205 {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}  1/3211 {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}  2001/3217 {Auxiliary supporting devices used during erection of the arched structures}  2001/3223 {Theorical polygonal geometry therefor}  2001/3229 {constructed using a boom}  2001/3235 {having a grid frame}  2001/3241 {Frame connection details}  2001/3247 {Nodes}  2001/3252 {Covering details}  2001/3258 {comprised entirely of a single self-supporting panel}  2001/3264 {hardened in situ}  2001/327 {comprised of a number of panels or blocs connected together forming a self-supporting structure}  2001/3276 {Panel connection details}	Groups E04B 1/34305 - E04B 1/34312 are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting} 1/34312 {Vertical telescopic structures} 1/34315 {characterised by separable parts}  WARNING  Groups E04B 1/34315 - E04B 1/34331 are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/34317 {Set of building elements forming a self-contained package for transport before
1/3205 {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}  1/3211 {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}  2001/3217 {Auxiliary supporting devices used during erection of the arched structures}  2001/3223 {Theorical polygonal geometry therefor}  2001/3229 {constructed using a boom}  2001/3235 {having a grid frame}  2001/3241 {Frame connection details}  2001/3247 {Nodes}  2001/3252 {Covering details}  2001/3258 {comprised entirely of a single self-supporting panel}  2001/3264 {hardened in situ}  2001/3276 {Panel connection details}  2001/3276 {Panel connected together exclusively at	Groups E04B 1/34305 - E04B 1/34312 are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 · · · {with only one level of nesting} 1/34312 · · · {Vertical telescopic structures} 1/34315 · · {characterised by separable parts}  WARNING  Groups E04B 1/34315 - E04B 1/34331 are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/34317 · · · {Set of building elements forming a self-contained package for transport before assembly}
1/3205 {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}  1/3211 {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}  2001/3217 {Auxiliary supporting devices used during erection of the arched structures}  2001/3223 {Theorical polygonal geometry therefor}  2001/3229 {constructed using a boom}  2001/3235 {having a grid frame}  2001/3241 {Frame connection details}  2001/3247 {Nodes}  2001/3252 {Covering details}  2001/3258 {comprised entirely of a single self-supporting panel}  2001/3264 {hardened in situ}  2001/327 {comprised of a number of panels or blocs connected together forming a self-supporting structure}  2001/3276 {Panel connection details}  2001/3282 {Panels connected together exclusively at their corners}	Groups E04B 1/34305 - E04B 1/34312 are incomplete pending reclassification of documents from group E04B 1/343. All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting} 1/34312 {Vertical telescopic structures} 1/34315 {characterised by separable parts}  WARNING  Groups E04B 1/34315 - E04B 1/34331 are incomplete pending reclassification of documents from group E04B 1/343. All groups listed in this Warning should be considered in order to perform a complete search.  1/34317 {Set of building elements forming a self-contained package for transport before assembly} 1/34321 {mainly constituted by panels}
1/3205 . {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}  1/3211 . {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}  2001/3217 . {Auxiliary supporting devices used during erection of the arched structures}  2001/3223 . {Theorical polygonal geometry therefor}  2001/3229 . {constructed using a boom}  2001/3235 . {having a grid frame}  2001/3241 {Frame connection details}  2001/3242 {Nodes}  2001/3243 {Covering details}  2001/3252 {Covering details}  2001/3258 {comprised entirely of a single self-supporting panel}  2001/3264 {hardened in situ}  2001/327 {comprised of a number of panels or blocs connected together forming a self-supporting structure}  2001/3276 {Panel connection details}  2001/3282 {Panels connected together exclusively at their corners}  2001/3288 {Panel frame details, e.g. flanges of steel sheet	Groups E04B 1/34305 - E04B 1/34312 are incomplete pending reclassification of documents from group E04B 1/343.  All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting} 1/34312 {Vertical telescopic structures} 1/34315 {characterised by separable parts}  WARNING  Groups E04B 1/34315 - E04B 1/34331 are incomplete pending reclassification of documents from group E04B 1/343. All groups listed in this Warning should be considered in order to perform a complete search.  1/34317 {Set of building elements forming a self-contained package for transport before assembly} 1/34321 {mainly constituted by panels} 1/34326 {mainly constituted by longitudinal elements}
1/3205 {Structures with a longitudinal horizontal axis, e.g. cylindrical or prismatic structures}  1/3211 {Structures with a vertical rotation axis or the like, e.g. semi-spherical structures}  2001/3217 {Auxiliary supporting devices used during erection of the arched structures}  2001/3223 {Theorical polygonal geometry therefor}  2001/3229 {constructed using a boom}  2001/3235 {having a grid frame}  2001/3241 {Frame connection details}  2001/3247 {Nodes}  2001/3252 {Covering details}  2001/3258 {comprised entirely of a single self-supporting panel}  2001/3264 {hardened in situ}  2001/327 {comprised of a number of panels or blocs connected together forming a self-supporting structure}  2001/3276 {Panel connection details}  2001/3282 {Panels connected together exclusively at their corners}	Groups E04B 1/34305 - E04B 1/34312 are incomplete pending reclassification of documents from group E04B 1/343. All groups listed in this Warning should be considered in order to perform a complete search.  1/3431 {with only one level of nesting} 1/34312 {Vertical telescopic structures} 1/34315 {characterised by separable parts}  WARNING  Groups E04B 1/34315 - E04B 1/34331 are incomplete pending reclassification of documents from group E04B 1/343. All groups listed in this Warning should be considered in order to perform a complete search.  1/34317 {Set of building elements forming a self-contained package for transport before assembly} 1/34321 {mainly constituted by panels}

1/34336 • • {Structures movable as a whole, e.g. mobile home structures (vehicles comprising living accommodation for people, e.g. caravans, camping or like vehicles <u>B60P 3/32</u>)}

1/34342 . . . {Skirtings therefor}

1/34347 . . . {Anchoring means therefor}

1/34352 . . . {Base structures or supporting means therefor}

1/34363 • • {with provisions to raise or lower the whole structure}

1/34384 . . {Assembling details for foldable, separable, collapsible or retractable structures}

#### **WARNING**

Group E04B 1/34384 is incomplete pending reclassification of documents from group E04B 1/343.

Groups E04B 1/343 and E04B 1/34384 should be considered in order to perform a complete search.

1/344 . . with hinged parts

#### **WARNING**

Group E04B 1/344 is incomplete pending reclassification of documents from group E04B 1/343.

Group <u>E04B 1/344</u> is also impacted by reclassification into group <u>E04B 1/3449</u>.

Groups E04B 1/343, E04B 1/344 and E04B 1/3449 should be considered in order to perform a complete search.

1/3441 . . . { with articulated bar-shaped elements}

#### **WARNING**

Group <u>E04B 1/3441</u> is incomplete pending reclassification of documents from group <u>E04B 1/343</u>.

Groups <u>E04B 1/343</u> and <u>E04B 1/3441</u> should be considered in order to perform a complete search.

1/3442 . . . {folding out from a core cell}

#### **WARNING**

Group E04B 1/3442 is incomplete pending reclassification of documents from group E04B 1/343.

Group <u>E04B 1/3442</u> is also impacted by reclassification into group <u>E04B 1/3449</u>.

Groups E04B 1/343, E04B 1/3442 and E04B 1/3449 should be considered in order to perform a complete search.

1/3444 . . . . {with only lateral unfolding}

### **WARNING**

Group E04B 1/3444 is incomplete pending reclassification of documents from group E04B 1/343.

Group <u>E04B 1/3444</u> is also impacted by reclassification into group <u>E04B 1/3449</u>.

Groups E04B 1/343, E04B 1/3444 and E04B 1/3449 should be considered in order to perform a complete search.

1/3445 . . . {foldable in a flat stack of parallel panels}

#### WARNING

Group E04B 1/3445 is incomplete pending reclassification of documents from group E04B 1/343.

Group  $\underline{E04B\ 1/3445}$  is also impacted by reclassification into group  $\underline{E04B\ 1/3449}$ .

Groups <u>E04B 1/343</u>, <u>E04B 1/3445</u> and <u>E04B 1/3449</u> should be considered in order to perform a complete search.

1/3447 . . . . {Portal- or saddle-shaped structures}

#### WARNING

Group <u>E04B 1/3447</u> is incomplete pending reclassification of documents from group <u>E04B 1/343</u>.

Groups <u>E04B 1/343</u> and <u>E04B 1/3447</u> should be considered in order to perform a complete search.

1/3448 • • • { with rotating shell-forming segments}

#### WARNING

Group E04B 1/3448 is incomplete pending reclassification of documents from group E04B 1/343.

Groups E04B 1/343 and E04B 1/3448 should be considered in order to perform a complete search.

1/3449 • • • {with living hinge (<u>E04B 1/345</u> takes precedence)}

# **WARNING**

Group <u>E04B 1/3449</u> is incomplete pending reclassification of documents from groups <u>E04B 1/343</u>, <u>E04B 1/344</u>, <u>E04B 1/3442</u>, <u>E04B 1/3444</u> and <u>E04B 1/3445</u>.

Group <u>E04B 1/3449</u> is also impacted by reclassification into group <u>E04B 1/345</u>.

All groups listed in this Warning should be considered in order to perform a complete search.

1/345 • • • {Structures deriving their rigidity from concertina folds}

#### WARNING

Group <u>E04B 1/345</u> is incomplete pending reclassification of documents from groups <u>E04B 1/343</u> and <u>E04B 1/3449</u>.

Groups E04B 1/343, E04B 1/3449 and E04B 1/345 should be considered in order to perform a complete search.

1/3455 . . {Wheeled arch-type structures}

# WARNING

Group <u>E04B 1/3455</u> is incomplete pending reclassification of documents from group <u>E04B 1/343</u>.

Groups <u>E04B 1/343</u> and <u>E04B 1/3455</u> should be considered in order to perform a complete search.

weter or electricity)  13487	1/346 1/3465	Rotary buildings; Buildings with rotary units, e.g. rooms  (with adapted utilities connections, e.g. for	2001/3583 • • {using permanent tensioning means, e.g. cables or rods, to assemble or rigidify structures (not pre- or poststressing concrete), e.g. by tying them
considerable parts of two sides of a room, e.g. box. life or cell-life units closed or in skeleton for missing concerned. J. (Elements integrated in a skeleton) [174823] . (Elements integrated in a skeleton) [174823] . (Elements integrated in a skeleton) [174824] . (Elements integrated in a skeleton) [174823] . (Elements for integrated in a skeleton) [174824] . (Elements for integrated in a skeleton) [174826] . (Elements for integrated in a skeleton) [174826] . (Elements for integrated in a skeleton) [174826] . (Elements for specified material, e.g. of plastics) [174826] . (Elements for special elements of condition) [174826] . (Elements for special elements or special elements or special elements or special echnical purposes, e.g. with a suntary equipment] [17482] [17482] . (Means allowing scoss to the units, e.g. stairs or cartieved specially adapted for for particular series (Elements for special echnical purposes, e.g. stairs or cartieved specially sales (Elements for special echnical purposes, e.g. stairs or cartieved specially sales (Elements for special echnical purposes, e.g. stairs or cartieved specially sales (Elements for special echnical purposes, e.g. stairs or cartieved specially sales (Elements for special echnical purposes, e.g. stairs or cartieved specially sales (Elements for special echnical purposes, e.g. stairs or cartieved specially sales (Elements for special echnical purposes, e.g. stairs or cartieved specially sales (Elements for special echnical purposes, e.g. stairs or cartieved specially sales (Elements for special echnical purposes, e.g. stairs or cartieved specially sales (Elements for special echnical purposes, e.g. stairs or cartieved specially sales (Elements for special echnical purposes, e.g. stairs or cartieved specially sales (Elements for special echnical purposes, e.g. stairs or cartieved specially sales (Elements for special echnical purposes, e.g. stairs or cartieved specially sales (Elements for foor partis and the special purpose stairs (Elements for special echnical p		- · · · · · · · · · · · · · · · · · · ·	around the structure}
1/34807   . [Elements integrated in a skeleton]   1/34823   [the supporting structure consisting of concrete]   1/34838   [the supporting structure consisting of wood]   1/34848   [the supporting structure consisting of wood]   1/34848   [the supporting structure consisting of wood]   1/34848   [the supporting structure consisting of wood]   1/34850   [the supporting structure consisting of wood]   1/34861   [the supporting structure consisting of wood]   1/34861   [the supporting structure consisting of wood]   1/34861   [the supporting structure structure]   1/34861   [the supporting structure consisting of wood]   1/34869   [treating in structure structure]   1/34869   [treating a living space between several units]   1/34869   [treating a living space between several units]   1/3580   [treating a living space between several units]   1/3580   [treating a living space between several units]   1/3580   [treating a living space so the units, e.g. stain or cantilevered gangways]   1/3580   [treating space]	1/348	considerable parts of two sides of a room, e.g. box-	gantries, overhead conveying rails}
1/34815   Elements not integrated in a skeleton   1/3482   Chemistry structure consisting of concrete   1/3483   Chemistry structure consisting of wood   1/348488   Chemistry structure consisting of wood   1/34848   Chemistry structure consisting of wood   1/3485   Chemistry structure consisting of wood   1/34861   Chemistry structure consisting of wood   1/3	4/0400=		
1/34823 • . (the supporting structure consisting of concrete] 1/3483 • . (the supporting structure consisting of wood) 1/3483 • . (the supporting structure consisting of wood) 1/34845 • . (the supporting structure consisting of other specified material, e.g. of plastics) 1/3485 • . (the supporting structure the groups of two or more materials) 1/3486 • . (particular arrangement of habitable rooms or their component parts; modular co-ordination) 1/34869 • . [Belments for special technical purposes, e.g. with a samitary equipment] 1/34869 • . [Genements or special demental purposes, e.g. with a samitary equipment] 1/350 • . [Mean sallowing access to the units, e.g. stris or cantilevered gangways) 1/351 • Extraordinary methods of construction, e.g. lift-slab, jack-black (E0H B 1/34 II. E0H B 1/35 II. E0H B 1			
1/3483   (the supporting structure consisting of metal)			
1/3484     the supporting structure consisting of other specified material, e.g. of plastics,     1/3485     (the supporting structures onessing of other specified material, e.g. of plastics,     1/3486   .   (purticular arrangement of habitable rooms or their component parts; modular co-ordination)     1/3486   .   (purticular arrangement of habitable rooms or their component parts; modular co-ordination)     1/3489   .   (Elements for special technical purposes, e.g. with a saminary equipment)     2001/34896   .   (with a sloping or harel roof)     2001/34897   .   (means allowing access to the units, e.g. stairs or cantilevered gamgways)     1/35   Extraordinary methods of construction, e.g. lift-slab; excluded by the six modular co-ordination on existing building pst 904 25300     1/350   (characterised by a measures on existing buildings 1904 25300)     1/3510   (lathracterised by a purely vertical lifting of floors or roofs or parts thereof)     1/3512   (characterised by a purely vertical lifting of floors or roofs or parts thereof)     1/3527   (the structure being a roof)     1/3528   (characterised by the missing of hingedly-connected building elements, e.g. arches, portal frames (EBB 17.353 take precedence))     1/3528   (characterised by the missing of hingedly-connected building elements, e.g. arches, portal frames (EBB 17.355 take precedence))     1/3538   (characterised by the missing of hingedly-connected building elements, e.g. arches, portal frames (EBB 17.355 take precedence))     1/3535   (characterised by the tilting up of whole buildings or sections shereof, e.g. walls, portal elements (EBB 17.355 take precedence)     1/3535   (characterised by the tilting up of whole buildings or sections shereof, e.g. walls, portal p	1/34023		
1/3488 (the supporting structure consisting of wood) 1/34860 . (the supporting structures length composed of two or more materials.) 1/34861 (particular arrangement of habitable rooms or their component parts; modular co-ordination) 1/34869 . (Elements for special technical purposes, e.g. with a samitary equipment) 1/34876 . (with a sloping or barrel port) 2001/34892 . (Means allowing access to the units, e.g. stairs or cantilevered gangways) 1/35 . Extraordinary methods of construction, e.g. lift-slab, included by the situ moduling or one sembling of biulding materials F04G 2100; working measures on existing building p59G 2200; for large parts of a structure (E0Hs 17311, E0Hs 17351, E0Hs 17352, E0Hs 17352, E0Hs 17352, E0Hs 17353, E0Hs 17354; (characterised by receding or vertical lifting of floors or roofs or parts thereof) 1/3552 . (characterised by receding a vertical structure and then adding the floors from top to bottom) 1/3553 . (the structure being a roof) 1/3553 . (characterised by the raising of hingelly-connected by the list gap of post of a structure and then adding structural elements under it (E0Hs 17351, E0Hs 17353) 1/3553 . (the structure being a floor slab with hingedly-connected by the linking of hingelly-connected by the mising of hingelly-connected by the litting up of whole buildings or parts thereof) 1/3551 . (characterised by expectednee) 1/3552 . (characterised by expectednee) 1/3553 . (characterised by the mising of hingelly-connected by the mising and more hingelly-connected by the m	1/3483	• • { the supporting structure consisting of metal }	NOTE
building parts or for particular building structures specified material, e.g. of plastics)  1/34851 . (the supporting structures being composed of two or more materials)  1/34869 . (Elements for special technical purposes, e.g. with a suntiry equipment)  1/34869 . (Elements for special technical purposes, e.g. with a suntiry equipment)  1/3500/34876 . (with a sloping or barrel roof)  1/3500/34876 . (with a slop			
1/3486) (Elements for special technical purposes, e.g. with a sumitary equipment) 1/34869 (Elements for special technical purposes, e.g. with a sumitary equipment) 1/34869 (Elements for special technical purposes, e.g. with a sumitary equipment) 1/34869 (Elements for special technical purposes, e.g. with a sumitary equipment) 1/34869 (Elements for special technical purposes, e.g. with a sumitary equipment) 1/34860 (Elements for special technical purposes, e.g. with a sumitary equipment) 1/34876 (with a sloping or barrel roof) 1/34892 (Means allowing access to the units, e.g. stairs or cantilevered gangways) 1/358 (Extraordinary methods of construction, e.g. lift-slab, jack-block (EBB 1/34 takes precedence, lifting for shaping walls, floors, ceilings or roofs in situ EOHC 11/04; conveying or assembling of building manuals EDHC 21/05; working measures on existing buildings EDHC 21/05; working measures and take shear stresses EOHB 1/248; spacers (EOHB 1/351, EOHB 1/355); and then adding the floors from top to bottom]  1/3512 (characterised by retiral as vertical structure and then adding the floors from top to bottom)  1/3523 (characterised by retiral as vertical structure bing a roof shear (EOHB 1/351); and the p		specified material, e.g. of plastics}	building parts or for particular building structures are classified in the groups for those parts or
their component parts; modular co-ordination)  (IElements for special technical purposes, e.g., with a sanitary equipment)  2001/34876 . (With a sloping or barrel roof)  2001/34884 . (creating a living space between several units)  2001/34892 . (Means allowing access to the units, e.g. stairs or cantilevered gangways)  1/35 . Extraordinary methods of construction, e.g., lift-slab, jack-block (E04B 1/34 takes precedence): falsework, subtreing for shaping walls, floors, cellings or roofs in sin E04G 11/04; conveying or assembling of united by the situ moulding of large parts of a structure (E04B 1/351), E04B 1/355.  EVALUATE OF STAIN (E04B 1/351), E04B 1/351, E04B 1/355.  EVALUATE OF STAIN (E04B 1/351), E04B 1/355.  EVALUATE OF STAIN (E04B 1/351), E04B 1/351, E04B 1/355, E04B 1/3533, E04B 1/3544, E04B 1/355; ake precedence)  1/3510 . (characterised by raising a structure and then adding structural elements under not pto bottom)  1/3522 . (characterised by raising a structure and then adding structural elements under the north of the concrete of masony surface, i.e. anchoring rails)  1/3533 . (characterised by the rising of hingedly-connected wall panels)  1/3534 . (characterised by the rising of hingedly-connected wall panels)  1/3535 . (characterised by the rising of hingedly-connected wall panels)  1/3536 . (characterised by the rising of hingedly-connected wall panels)  1/3537 . (the structure being a roof)  1/3538 . (characterised by the rising of hingedly-connected wall panels)  1/3538 . (the elements E04B 1/351 has precedence))  1/3539 . (characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames (Bob 1/355 take precedence))  1/3537 . (characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames)  1/3555 . (characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames)  1/3557 . (characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames)  1/3557 . (character		two or more materials}	
1/34669   .   [Elements for special technical purposes, e.g. with a sanitary equipment with a sloping or barrel roof]   1/380   .   (Connection of concrete prats using adhesive materials, e.g. mortar or glue)   (2001/34892   .   (Creating a living space between several units)   2001/34892   .   (Means allowing access to the units, e.g. stairs or cantilevered gangways)   1/350   Extraordinary methods of construction, e.g. lift-slab, jack-block (EU4B 1/34 takes precedence; falsework, shuttering for shaping walls, Broots, collings or roofs in sin E04G 11/04; conveying or assembling of building materials E04G 2100; working measures on existing buildings E04G 23/00)   (characterised by the in situ moulding of large parts of a structure (E04B 1/351, E04B 1/353, E04B 1/3533, E04B 1/3534, E04B 1/3535 take precedence)   (1/3510   (characterised by receiting a vertical structure and then adding structural elements under it (E04B 1/351)   (1/3537   (characterised by reasing a structure and then adding structural elements under it (E04B 1/351)   (1/3538   (characterised by the tasing of hingedly-connected building elements, e.g. arches, portal frames (E04B 1/355 takes precedence)   (1/3534   (characterised by the tasing of hingedly-connected wall panels)   (characterised by the tusing of hingedly-connected wall panels)   (characterised by the tasing of hingedly-connected wall panels)   (characterised by the tasing of hingedly-connected wall panels)   (characterised by the tasing of hingedly-connected wall panels)   (characterised by the tase of a central column to lift and temporarily or permanently support structural elements (E04B 1/3516 and B04B 1/355 take precedence))   (characterised by the tuse of a central column to lift and temporarily or permanently sup		their component parts; modular co-ordination}	
2001/34882   (creating a l'ving space between several units)   2001/34892   (Means allowing access to the units, e.g. stairs or cantilevered gangways)   1/35   Extraordinary methods of construction, e.g. lift-slab, jack-block (DMB 1/34 takes precedence; falsework, shuttering for shaping walls, floors, cellings or roofs in situ Bbdd 11.09; conveying or assembling of building materials E04G 21/00; working measures on existing buildings E04G 23/00)   1/3505   . (characterised by the in situ moulding of large parts of a structure (E04B 1/3511, E04B 1/3514, E04B 1/3551 take precedence)   1/3516   . (characterised by the resist under it (E04B 1/3514, E04B 1/3516, E04B 1/3533 take precedence)   1/3517   . (characterised by the resist under it (E04B 1/3511, E04B 1/3516, E04B 1/3533 take precedence)   1/3527   (the structure ledents under it (E04B 1/3511, E04B 1/3516, E04B 1/3516, E04B 1/3533 take precedence)   1/3538   (the acterised by a parely vertical structural end then adding structural elements under it (E04B 1/3511, E04B 1/3516, E	1/34869		appropriate subclasses, e.g. <u>F16B</u> .
2001/3892 . (Means allowing access to the units, e.g. stairs or cartillevered gangways)  1/35			
1/35   Extraordinary methods of construction, e.g., lift-slab, jack-block (EOHB J/34 takes precedence; falsework, shuttering for shaping walls, floors, ceilings or roofs in situ EO4G 11/04; converging or assembling of building materials E04G 21/00; working measures on existing buildings E04G 23/00)   1/3505   (characterised by the in sign moulding of large parts of a structure (EO4B J/3511, EO4B J/3516, E04B J/352, E04B J/353, E04B J/3516, E04B J/353, E04B J/353, E04B J/355 take precedence)   1/3516   (characterised by remaining and then adding the floors from top to bottom)   1/3522   (characterised by the raising a structure and then adding structural elements under it (E04B J/3511, E04B J/3516, E04B J/3536 (echaracterised by the raising of hingedly-connected building elements, e.g. arches, portal frames (E04B J/3516 (E04B J/3551) (enements being a floor slab with hingedly-connected building elements, e.g. arches, portal frames (E04B J/355 (akes precedence))   1/3534   (characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B J/3516 and E04B J/355 (ake precedence))   1/3555 (characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B J/3516 and E04B J/355 (ake precedence))   1/3557 (characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B J/3516 and E04B J/355 (ake precedence))   1/3557 (characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B J/3516 and E04B J/355 (ake precedence))   1/4157 (characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B J/3516 and E04B J/3556 (ake precedence))   1/4157 (characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B J/3516 and E04B J/3556 (ake precedence))   1/4157 (characterised by the use of a central column to			
1/35 Extraordinary methods of construction, e.g. lift-slab, jack-block (E04B 1/34 takes precedence; falsework, shuttering for shaping walls, floors, ceilings or roofs in situ E04G 11/04; conveying or assembling of building materials E04G 21/00; working measures on existing buildings E04G 23/00)  1/3505 • (characterised by the in situ moulding of large parts of a structure (E04B 1/3511, E04B 1/3515, E04B 1/3533, E04B 1/3544, E04B 1/3552, E04B 1/3533, E04B 1/3544, E04B 1/3552 take precedence)]  1/3511 • (Lift-slab; characterised by a purely vertical lifting of floors or roofs or parts thereof)  1/3512 • (characterised by reacting a vertical structure and then adding the floors from top to bottom)  1/3522 • (characterised by raising a structure and then adding structural elements under it (E04B 1/3515, E04B 1/3533) take precedence))  1/3523 • (characterised by the raising of hingedly-connected building elements, e.g., arches, portal frames (E04B 1/355 takes precedence))  1/3533 • (characterised by the raising of hingedly-connected wall panels)  1/3534 • (characterised by the raising of hingedly-connected wall panels)  1/3544 • (characterised by the traising of hingedly-connected wall panels)  1/355 • (characterised by the traising of hingedly-connected wall panels)  1/3555 • (characterised by the traising of hingedly-connected wall panels)  1/3556 • (characterised by the traising of hingedly-connected wall panels)  1/3557 • (characterised by the traising of hingedly-connected wall panels)  1/3558 • (characterised by the traising of hingedly-connected wall panels)  1/3557 • (characterised by the traising of hingedly-connected wall panels)  1/3558 • (characterised by the traising of hingedly-connected wall panels)  1/3557 • (characterised by the traising of hingedly-connected wall panels)  1/3558 • (characterised by the raising of hingedly-connected wall panels)  1/3557 • (characterised by the raising of hingedly-connected wall panels)  1/3558 • (characterised by the raising of hingedly-connected wall panels)  1/355	2001/34892		•
jack-block (£04B 1/34 takes precedence; falsework, shuttering for shaping walls, floors, ceilings or roofs in site D4G 11/04; conveying or assembling of building materials £04G 21/00; working measures on existing buildings £04G 23/00.  1/3505 . (characterised by the in situ moulding of large parts of a structure (£04B 1/3511, £04B 1/3516, £04B 1/3552, £04B 1/3533, £04B 1/3534, £04B 1/3552 kap recedence)}  1/3511 . (Lift-slab; characterised by a purely vertical lifting of floors or roofs or parts thereof)  1/3512 . (characterised by recting a vertical structure and then adding the floors from top to bottom)  1/3523 . (characterised by raising a structure and then adding the floors from top to bottom)  1/3533 . (chearcterised by raising a structure and then adding the floors from top to bottom)  1/3534 . (characterised by the taising of hingedly-connected building elements, e.g. arches, portal frames (£04B 1/355 takes precedence))  1/3535 . (chearcterised by the use of a central column to lift and temporarily or permanently support structural elements (£04B 1/3516 and £04B 1/355 take precedence))  1/3555 . (characterised by the taising of hingedly-connected wall panels)  1/3556 . (characterised by the caption of structural elements (£04B 1/3516 and £04B 1/355 take precedence))  1/3557 . (characterised by the use of a central column to lift and temporarily or permanently support structural elements (£04B 1/3516 and £04B 1/355 take precedence))  1/3557 . (characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames)  1/3557 . (characterised by the taising of hingedly-connected wall panels)  1/3557 . (characterised by the attraction of the precision of the precis	1/35		
in situ E04G 11/04; conveying or assembling of building materials E04G 21/00; working measures on existing buildings E04G 23/00)  1/3505 . {characterised by the in situ moulding of large parts of a structure (E04B 1/351, E04B 1/351, E04B 1/351, E04B 1/351, E04B 1/353, E04B 1/351, E04B 1/353, E04B 1/354, E04B 1/355, E04B 1/351, E		jack-block (E04B 1/34 takes precedence; falsework,	
building materials E04G 21/00; working measures on existing buildings E04G 23/00)  1/3505 . (characterised by the raising on buildings E04B 1/3516, E04B 1/3515, E04B 1/3516, E04B 1/35133, E04B 1/3514, E04B 1/3515, E04B 1/35133, E04B 1/3514, E04B 1/3515, E04B 1/3516, E04B 1/3516			
on existing buildings E04G 23/00)  1/3505 . (characterised by the in situ moulding of large parts of a structure (G04B 1/3511, E04B 1/3516, E04B 1/3552, E04B 1/3553, E04B 1/3554, E04B 1/355 take precedence))  1/3511 . (Lift-slab): characterised by a purely vertical lifting of floors or roofs or parts thereof}  1/3512 . (characterised by crecting a vertical structure and then adding the floors from top to bottom)  1/3522 . (characterised by raising a structure and then adding the floors from top to bottom)  1/3523 . (the structure elements under it (E04B 1/3511, E04B 1/3516, E04B 1/3531 take precedence))  1/3524 . (the structure being a roof)  1/3538 . (the elements being a floor slab with hingedly-connected will panels)  1/3544 . (characterised by the use of a central column to lift and temporarily or permanently support structureal elements (E04B 1/355 and E04B 1			
parts of a structure (E04B 1/3511, E04B 1/3516, E04B 1/3522, E04B 1/3533, E04B 1/3544, E04B 1/3552 take precedence)}  1/3511 . (Lift-slab; characterised by a purely vertical lifting of floors or roofs or parts thereof)  1/3516 . (characterised by erecting a vertical structure and then adding the floors from top to bottom)  1/3522 . (characterised by raising a structure and then adding the floors from top to bottom)  1/3527 (the structure being a roof)  1/3533 . (characterised by the raising of hingedly-connected building elements, e.g. arches, portal frames (E04B 1/355 takes precedence))  1/3538 . (the elements being a floor slab with hingedly-connected wall panels)  1/3544 . (characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B 1/3516 and E04B 1/355 take precedence))  1/3555 . (Constructions using straw bales)  1/3556 . (Constructions using straw bales)  1/3557 . (Instructure demand frames)  1/3556 . (Constructions using straw bales)  1/3557 . (Instructure demand frames)  1/3556 . (Instructure demand frames)  1/3557 . (Constructions using straw bales)  1/3550 . (Constructions using straw bales)  1/3551 . (Instructure demand frames)  1/3552 . (Instructure demand frames)  1/3553 . (Instructure demand frames)  1/3554 . (Instructure demand frames)  1/3555 . (Instructure demand frames)  1/3556 . (Instructure demand frames)  1/3557 . (Instructure demand frames)  1/3558 . (Instructure demand frames)  1/3559 . (Instructure demand frames)  1/3550 . (Instructure demand frames)  1/3550 . (Instructure demand frames)  1/3551 . (Instructure demand frames)  1/3552 . (Instructure demand frames)  1/3553 . (Instructure demand frames)  1/3554 . (Instructure demand frames)  1/3555 . (Instructure demand frames)  1/3556 . (Instructure demand frames)  1/3557 . (Instructure demand frames)  1/3558 . (Instructure demand frames)  1/3559 . (Instructure demand frames)  1/3550 . (Instructure demand frames)  1/3550 . (Instructure demand frames)  1/3550 . (Instructure deman			1/41 . Connecting devices specially adapted for
E04B 1/3522, E04B 1/3533, E04B 1/3544, E04B 1/3525 take precedence)   1/3511   (Lifit-slab); characterised by a purely vertical lifting of floors or roofs or parts thereof   1/3516   (characterised by erecting a vertical structure and then adding then floors from top to bottom)   1/3522   (characterised by raising a structure and then adding structural elements under it (E04B 1/3511, E04B 1/3516, E04B 1/3516, E04B 1/3513, technology and then adding structural elements under it (E04B 1/3511, E04B 1/3516, E04B 1/3516, E04B 1/3513, technology and then adding structural elements under it (E04B 1/3511, E04B 1/3516, E04B 1/3516, E04B 1/3516, E04B 1/3516, E04B 1/3516, E04B 1/3516 and E04B 1/355   (characterised by the raising of hingedly-connected wall panels)   1/412   (characterised by the see of a central column to lift and temporarily or permanently support structural elements (E04B 1/3516 and E04B 1/355 take precedence))   1/415   (characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames)   1/4164   (with tansverse hook- or loop-receiving parts, e.g. spring-loaded bolts, hanging rings)   1/417   (with tansverse hook- or loop-receiving parts, e.g. spring-loaded bolts, hanging rings)   1/4164   (with an adjustment sleeve)   1/417   (with an adjustment sleeve)   1/418   (word in adding wall ties, E04G 3/0,022)   (word in adding wall ties, E04G 3/0,022)   1/418   (word in adding wall ties, E04G 3/0,022)   1/418   (word in adding wall ties, E04G 3/0,022)   (word in adding wall ties, E04G 3/0,022)   1/418   (word in adding wall ties, E04G 3/0,022)   (word in adding	1/3505		
1/3511   . {Lift-slab; characterised by a purely vertical lifting of floors or roofs or parts thereof}   1/3516   . {characterised by receting a vertical structure and then adding the floors from top to bottom}   1/3512   . {characterised by receting a vertical structure and then adding structural elements under it (E04B 1/3511, E04B 1/3516, E04B 1/3533 take precedence)}   1/4114   {Longitudinal elements having an open profile, with the opening parallel to the concrete or masonry surface, i.e. anchoring rails}   1/4114   {Elements with sockets (E04B 1/4107 takes precedence)}   1/4121   {with internal threads or non-adjustable captive nuts}   {to enceiving adjustable or removal nuts}   {to enceiving adjustable or removal nuts}   {to enceiving adjustable or removal nuts}   {to enceiving removal both heads (E04B 1/415 takes precedence)}   {with transverse hook- or loop-receiving parts (E04B 1/415 takes precedence)}   {with transverse hook- or loop-receiving parts (E04B 1/415 takes precedence)}   {with captive and extendable anchoring parts, e.g. spring-loaded bolts, hanging rings}   {to enceiving transverse hook- or loop-receiving parts, e.g. spring-loaded bolts, hanging rings}   {to enceiving transverse hook- or loop-receiving parts, e.g. spring-loaded bolts, hanging rings}   {to enceiving transverse hook- or loop-receiving parts, e.g. spring-loaded bolts, hanging rings}   {to enceiving parts, e.g. spring-loaded bolts, hanging rings}   {to enceiving parts, e.g. spring-loaded screwable elements extending from the concrete or masonry, e.g. anchoring bolt with embedded head}   {to enceiving parts, e.g. spring-loaded screwable elements extending from the concrete or masonry, e.g. anchoring bolt with embedded head}   {to enceiving parts, e.g. spring-loaded screwable elements extending from the concrete or masonry, e.g. anchoring bolt with embedded head}   {to enceiving embedded head}   {to enceiving embedded			
lifting of floors or roofs or parts thereof}  1/3516 . {characterised by erecting a vertical structure and then adding the floors from top to bottom} then adding the floors from top to bottom}		E04B 1/355 take precedence)}	walls <u>E04B 2/30</u> , <u>E04B 2/44</u> ; connectors for
then adding the floors from top to bottom}  1/3522 . {characterised by raising a structure and then adding structural elements under it (E04B 1/3511, E04B 1/3533 take precedence)}  1/3527 {the structure being a roof}  1/3533 . {characterised by the raising of hingedly-connected building elements, e.g. arches, portal frames (E04B 1/355 takes precedence)}  1/3538 {the elements being a floor slab with hingedly-connected wall panels}  1/3544 . {characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B 1/3516 and E04B 1/355 take precedence)}  1/355 . {characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames}  1/355 . {constructions using straw bales}  2001/3561 . {adding living space above existing structures}  2001/3577 . {prefabricating a building and moving it as a whole to the erection site}  with the opening parallel to the concrete or masonry surface, i.e. anchoring rails}  1/4114 . {Elements with sockets (E04B 1/4107 takes precedence)}  1/4121 {with internal threads or non-adjustable captive nuts}  1/4128 {receiving adjustable or removal nuts}  1/4129 {receiving removal bolt heads (E04B 1/415 takes precedence)}  1/4120 {with transverse hook- or loop-receiving parts (E04B 1/415 takes precedence)}  1/4121 {with tansverse hook- or loop-receiving parts (E04B 1/415 takes precedence)}  1/4129 {with captive and extendable anchoring parts, e.g. spring-loaded bolts, hanging rings}  1/4150 {with captive and extendable anchoring rails}  1/4151 {with an adjustment sleeve}  1/4164 {with an adjustment sleeve}  1/4171 {Nailable or non-threaded screwable elements (dowels F16B 13/00)}  1/4178 {Masonry wall ties (with insulation-layer locating devices E04B 1/616; replacing or adding wall ties E04G 23/02222)}  1/4181 {Wasonry wall ties (part) takes precedence}  1/4182 {with an adjustment sleeve}  1/4183 {Roainary takes precedence}  1/4184 {Wasonry wall ties (wit	1/3511		
1/3522 . {characterised by raising a structure and then adding structural elements under it (E04B 1/3511, E04B 1/3516, E04B 1/3533 take precedence)}  1/3527 . {the structure being a roof}  1/3533 . {characterised by the raising of hingedly-connected building elements, e.g. arches, portal frames (E04B 1/355 takes precedence)}  1/3538 {the elements being a floor slab with hingedly-connected wall panels}  1/3544 . {characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B 1/3516 and E04B 1/355 take precedence)}  1/3555 . {characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames}  1/3556 . {constructions using straw bales}  2001/3561 . {adding living space above existing structures}  2001/3572 . {using templates or jigs to set out buildings or parts thereof}  2001/3577 . {prefabricating a building and moving it as a whole to the erection site}  1/4185 {characterised by traising a structure and then adding structural elements (E04B 1/3511, E04B 1/415 takes precedence)}  1/4121 {with internal threads or non-adjustable captive nuts}  1/4128 {receiving adjustable or removal nuts}  1/4129 {with transverse hook- or loop-receiving parts (E04B 1/415 takes precedence)}  1/415 {with captive and extendable anchoring parts, e.g. spring-loaded bolts, hanging rings}  1/4157 {Longitudinally-externally threaded elements extending from the concrete or masonry, e.g. anchoring bolt with embedded head}  1/4161 {with an adjustment sleeve}  1/4171 . {Nailable or non-threaded screwable elements (dowels F16B 13/00)}  1/4178 {Masonry wall ties (with insulation-layer locating devices E04B 1/7616; replacing or adding wall ties E04G 23/02222)}  1/4185 {for cavity walls with both wall leaves made of masonry (spacers for permanent forms	1/3516		
adding structural elements under it (E04B 1/3511, E04B 1/3516, E04B 1/3533 take precedence)  1/3527 (the structure being a roof) 1/3533 . {characterised by the raising of hingedly-connected building elements, e.g. arches, portal frames (E04B 1/355 takes precedence)}  1/3538 {the elements being a floor slab with hingedly-connected wall panels} 1/3544 {characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B 1/3516 and E04B 1/355 take precedence)}  1/355 . {characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames}  1/355 . {Constructions using straw bales}  2001/3561 . {adding living space above existing structures}  2001/3572 . {using templates or jigs to set out buildings or parts thereof}  2001/3577 . {prefabricating a building and moving it as a whole to the erection site}  1/4185 {Elements with sockets (E04B 1/4107 takes precedence)}  1/4121 {with internal threads or non-adjustable captive nuts}  1/4128 {receiving removal bolt heads (E04B 1/415 takes precedence)}  1/4128 {with transverse hook- or loop-receiving parts (E04B 1/415 takes precedence)}  1/4142 {with transverse hook- or loop-receiving parts, e.g. spring-loaded bolts, hanging rings}  1/415 {with captive and extendable anchoring parts, e.g. spring-loaded bolts, hanging rings}  1/4157 {Longitudinally-externally threaded elements extending from the concrete or masonry, e.g. anchoring bolt with embedded head}  1/4164 {with an adjustment sleeve}  1/4171 {Nailable or non-threaded screwable elements (dowels F16B 13/00)}  1/4178 {Masonry wall ties (with insulation-layer locating devices E04B 1/7616; replacing or adding wall ties E04G 23/0222)}  1/4185 {for cavity walls with both wall leaves made of masonry (spacers for permanent forms	1/3522	. ,	
1/3527 {the structure being a roof} 1/3533 {characterised by the raising of hingedly-connected building elements, e.g. arches, portal frames (E04B 1/355 takes precedence)} 1/3538 {the elements being a floor slab with hingedly-connected wall panels} 1/3544 . {characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B 1/3516 and E04B 1/355 take precedence)} 1/355 . {characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames} 2001/3561 . {adding living space above existing structures} 2001/3577 . {prefabricating a building and moving it as a whole to the erection site}  1/4185 {with internal threads or non-adjustable captive nuts} 1/4128 {receiving adjustable or removal nuts} 1/4128 {receiving adjustable or removal nuts} 1/4129 {with transverse hook- or loop-receiving parts (E04B 1/415 takes precedence)} 1/4142 {with captive and extendable anchoring parts, e.g. spring-loaded bolts, hanging rings} 1/4157 {Longitudinally-externally threaded elements extending from the concrete or masonry, e.g. anchoring bolt with embedded head} 1/4157 {with an adjustment sleeve} 1/4158 {with an adjustment sleeve} 1/4179 {Nailable or non-threaded screwable elements (dowels F16B 13/00)} 1/4178 {Masonry wall ties (with insulation-layer locating devices E04B 1/7616; replacing or adding wall ties E04G 23/0222})} 1/4185 {for cavity walls with both wall leaves made of masonry (spacers for permanent forms	1/3322		
1/3533 . {characterised by the raising of hingedly-connected building elements, e.g. arches, portal frames (E04B 1/355 takes precedence)}  1/3538 {the elements being a floor slab with hingedly-connected wall panels}  1/3544 . {characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B 1/3516 and E04B 1/355 take precedence)}  1/355 . {characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames}  1/355 . {Constructions using straw bales}  2001/3561 . {adding living space above existing structures}  2001/3572 . {using templates or jigs to set out buildings or parts thereof}  2001/3577 . {prefabricating a building and moving it as a whole to the erection site}  1/4185 {freceiving adjustable or removal nuts}  1/4128 {receiving adjustable or removal nuts}  1/4129 {with transverse hook- or loop-receiving parts (E04B 1/415 takes precedence)}  1/415 {with captive and extendable anchoring parts, e.g. spring-loaded bolts, hanging rings}  1/4157 {Longitudinally-externally threaded elements extending from the concrete or masonry, e.g. anchoring bolt with embedded head}  2001/3561 . {adding living space above existing structures}  1/4164 {with an adjustment sleeve}  1/4171 {Nailable or non-threaded screwable elements (dowels F16B 13/00)}  1/4178 {Masonry wall ties (with insulation-layer locating devices E04B 1/7616; replacing or adding wall ties E04G 23/0222)}  1/4185 {for cavity walls with both wall leaves made of masonry (spacers for permanent forms			
connected building elements, e.g. arches, portal frames (E04B 1/355 takes precedence)}  1/3538 {the elements being a floor slab with hingedly-connected wall panels}  1/3544 {characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B 1/3516 and E04B 1/355 take precedence)}  1/355 . {characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames}  1/355 . {Constructions using straw bales}  2001/3561 . {adding living space above existing structures}  2001/3572 . {using templates or jigs to set out buildings or parts thereof}  2001/3577 . {prefabricating a djustable or removal nuts}  1/4128 {receiving adjustable or removal nuts}  1/415 {with transverse hook- or loop-receiving parts (E04B 1/415 takes precedence)}  1/415 {with captive and extendable anchoring parts, e.g. spring-loaded bolts, hanging rings}  1/4157 {Longitudinally-externally threaded elements extending from the concrete or masonry, e.g. anchoring bolt with embedded head}  1/4164 {with an adjustment sleeve}  1/4171 {Nailable or non-threaded screwable elements (dowels F16B 13/00)}  1/4178 {Masonry wall ties (with insulation-layer locating devices E04B 1/7616; replacing or adding wall ties E04G 23/0222)}  1/4185 {for cavity walls with both wall leaves made of masonry (spacers for permanent forms		· · · · · · · · · · · · · · · · · · ·	`
frames (E04B 1/355 takes precedence)}  1/3538 {the elements being a floor slab with hingedly-connected wall panels}  1/3544 {characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B 1/3516 and E04B 1/355 take precedence)}  1/355 . {characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames}  1/355 . {Constructions using straw bales}  2001/3561 . {adding living space above existing structures}  2001/3572 . {using templates or jigs to set out buildings or parts thereof}  2001/3577 . {prefabricating a building and moving it as a whole to the erection site}  1/4185 {freceiving removal bolt heads (E04B 1/415 takes precedence)}  1/4142 {with tansverse hook- or loop-receiving parts (E04B 1/415 takes precedence)}  1/415 {with captive and extendable anchoring parts, e.g. spring-loaded bolts, hanging rings}  1/4157 {Longitudinally-externally threaded elements extending from the concrete or masonry, e.g. anchoring bolt with embedded head}  1/4164 {with an adjustment sleeve}  1/4171 {Nailable or non-threaded screwable elements (dowels F16B 13/00)}  1/4178 {Masonry wall ties (with insulation-layer locating devices E04B 1/7616; replacing or adding wall ties E04G 23/0222)}  1/4185 {for cavity walls with both wall leaves made of masonry (spacers for permanent forms	1/3333		•
1/3544   Characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B 1/3516 and E04B 1/355 take precedence)}  1/355   Characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames}  1/355   Constructions using straw bales    2001/3561   Adding living space above existing structures    2001/3572   Susing templates or jigs to set out buildings or parts thereof    2001/3577   Sprefabricating a building and moving it as a whole to the erection site    1/4185   Swith transverse hook- or loop-receiving parts (E04B 1/415 takes precedence)    1/415   Swith transverse hook- or loop-receiving parts (E04B 1/415 takes precedence)    1/415   Swith captive and extendable anchoring parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging parts, e.g. spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, hanging rings    1/4157   Spring-loaded bolts, han			
1/3544 {characterised by the use of a central column to lift and temporarily or permanently support structural elements (E04B 1/3516 and E04B 1/355 take precedence)}  1/355 {characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames}  1/355 {Constructions using straw bales}  2001/3561 {adding living space above existing structures}  2001/3572 {using templates or jigs to set out buildings or parts thereof}  2001/3577 {prefabricating a building and moving it as a whole to the erection site}  1/4185 {for cavity walls with both wall leaves made of masonry (spacers for permanent forms	1/3538		
to lift and temporarily or permanently support structural elements (£04B 1/3516 and £04B 1/355 take precedence)}  1/355  • {characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames}  1/355  • {Constructions using straw bales}  2001/3561  • {adding living space above existing structures}  2001/3572  • {using templates or jigs to set out buildings or parts thereof}  2001/3577  • {prefabricating a building and moving it as a whole to the erection site}  1/4185  • {with captive and extendable anchoring parts, e.g. spring-loaded bolts, hanging rings}  1/4157  • {Longitudinally-externally threaded elements extending from the concrete or masonry, e.g. anchoring bolt with embedded head}  1/4164  • • {with an adjustment sleeve}  1/4171  • • {Nailable or non-threaded screwable elements (dowels F16B 13/00)}  1/4178  • • {Masonry wall ties (with insulation-layer locating devices £04B 1/7616; replacing or adding wall ties £04G 23/0222})}  1/4185  • • {for cavity walls with both wall leaves made of masonry (spacers for permanent forms}	1/25/1/	- · · · · · · · · · · · · · · · · · · ·	
E04B 1/355 take precedence) rings   1/355 . {characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames} 1/4157 . {Longitudinally-externally threaded elements extending from the concrete or masonry, e.g. anchoring bolt with embedded head} 2001/3561 . {adding living space above existing structures} 1/4164 {with an adjustment sleeve} 2001/3566 . {mounting masonry against a forwork} 1/4171 {Nailable or non-threaded screwable elements (dowels F16B 13/00)} 1/4178 {prefabricating a building and moving it as a whole to the erection site} 1/4185 {for cavity walls with both wall leaves made of masonry (spacers for permanent forms}	1/3344		
1/355 . {characterised by the tilting up of whole buildings or sections thereof, e.g. walls, portal frames}  1/355 . {Constructions using straw bales}  2001/3561 . {adding living space above existing structures}  2001/3566 . {mounting masonry against a forwork}  2001/3572 . {using templates or jigs to set out buildings or parts thereof}  2001/3577 . {prefabricating a building and moving it as a whole to the erection site}  1/4185 {Longitudinally-externally threaded elements extending from the concrete or masonry, e.g. anchoring bolt with embedded head}  1/4164 {with an adjustment sleeve}  1/4171 {Nailable or non-threaded screwable elements (dowels F16B 13/00)}  1/4178 {Masonry wall ties (with insulation-layer locating devices E04B 1/7616; replacing or adding wall ties E04G 23/0222)}  1/4185 {for cavity walls with both wall leaves made of masonry (spacers for permanent forms}			
or sections thereof, e.g. walls, portal frames}  1/3555 . {Constructions using straw bales}  2001/3561 . {adding living space above existing structures}  2001/3566 . {mounting masonry against a forwork}  2001/3572 . {using templates or jigs to set out buildings or parts thereof}  2001/3577 . {prefabricating a building and moving it as a whole to the erection site}  2001/3578 . {for cavity walls with both wall leaves made of masonry (spacers for permanent forms}	1/255		
1/3555 . {Constructions using straw bales} 2001/3561 . {adding living space above existing structures} 2001/3566 . {mounting masonry against a forwork} 2001/3572 . {using templates or jigs to set out buildings or parts thereof} 2001/3577 . {prefabricating a building and moving it as a whole to the erection site}  2001/3577 . {for cavity walls with both wall leaves made of masonry (spacers for permanent forms	1/333		
2001/3566 . {mounting masonry against a forwork} 2001/3572 . {using templates or jigs to set out buildings or parts thereof} 2001/3577 . {prefabricating a building and moving it as a whole to the erection site}  1/4185 {Nailable or non-threaded screwable elements (dowels F16B 13/00)} {Masonry wall ties (with insulation-layer locating devices E04B 1/7616; replacing or adding wall ties E04G 23/0222)} {for cavity walls with both wall leaves made of masonry (spacers for permanent forms	1/3555		anchoring bolt with embedded head}
2001/3572 . {using templates or jigs to set out buildings or parts thereof}	2001/3561		The state of the s
parts thereof}  2001/3577  • {prefabricating a building and moving it as a whole to the erection site}  1/4178  • • {Masonry wall ties (with insulation-layer locating devices E04B 1/7616; replacing or adding wall ties E04G 23/0222)}  1/4185  • • {Masonry wall ties (with insulation-layer locating devices E04B 1/7616; replacing or adding wall ties E04G 23/0222)}  1/4185  • • • {for cavity walls with both wall leaves made of masonry (spacers for permanent forms			
2001/3577 • {prefabricating a building and moving it as a whole to the erection site}  1/4185 • {for cavity walls with both wall leaves made of masonry (spacers for permanent forms	2001/35/2		
whole to the erection site}  1/4185  adding wall ties E04G 23/0222)}  1.4185  adding wall ties E04G 23/0222)  for cavity walls with both wall leaves made of masonry (spacers for permanent forms	2001/3577		locating devices E04B 1/7616; replacing or
of masonry (spacers for permanent forms			
			of masonry (spacers for permanent forms

2001/4192	• • • {attached to concrete reinforcing elements, e.g. rods or wires}	1/6183 { with rotatable locking means cooperating with a recess}
1/48	• Dowels, i.e. members adapted to penetrate the surfaces of two parts and to take the shear stresses	1/6187 {by means on top and/or bottom surfaces of the slabs}
1/483	{Shear dowels to be embedded in concrete}	2001/6191 {by means on the corners of the slabs}
1/486	• • • {Shear dowels for wood ( <u>E04B 1/49</u> takes	2001/6195 {the slabs being connected at an angle, e.g.
	precedence)}	forming a corner}
1/49	with self-penetrating parts, e.g. claw dowels	1/62 • Insulation or other protection; Elements or use of
1/541	• • {Joints substantially without separate connecting	specified material therefor (chemical compositions
	elements, e.g. jointing by inter-engagement}	<u>C01</u> - <u>C11</u> ; implements for applying insulation or
1/58	• of bar-shaped building elements {(framework	sealings <u>E04F 21/00</u> ; buildings to withstand, or
	connections <u>E04B 1/21</u> , <u>E04B 1/2403</u> ,	to provide protection against, external undesired
1/5006	<u>E04B 1/2604</u> )}	influences <u>E04H 9/00</u> ; sealing pipes in walls or partitions <u>F16L 5/02</u> ; shielding against dangerous
1/5806	{with a cross-section having an open profile}	radiation <u>G21F</u> )
1/5812	• • • {of substantially I - or H - form}	1/625 . {Sheets or foils allowing passage of water vapor
1/5818 1/5825	<ul><li> {of substantially U - form}</li><li> {with a closed cross-section}</li></ul>	but impervious to liquid water; house wraps}
1/5831	• • • {with a closed cross-section} • • • • {of substantially rectangular form}	1/64 for making damp-proof; Protection against
1/5837	{of substantially rectangular form}	corrosion (sealings <u>E04B 1/66</u> )
1/5843	• • • {or substantially circular form; • • • • {with ends provided with protuberances}	<u>NOTE</u>
1/585	{with separate connection devices}	
2001/5856	{using the innerside thereof}	Group E04B 1/64 is not used for classification.  Documents are classified in subgroups only or
2001/5862	{Angularly adjustable connections without	in groups E04B 1/66, E04B 1/70
2001/3002	hinge pin}	- •
2001/5868	{Hinged connections}	1/642 {Protecting metallic construction elements
	• • • {using exterior clamping plates or shells}	against corrosion (for concrete reinforcing
2001/5881	• • • {using an undercut groove, e.g. dovetail	elements made of steel <u>E04C 5/01</u> ; anodic or cathodic protection <u>C23F 13/00</u> )}
	groove}	1/644 {Damp-proof courses (in combination with
2001/5887	,	lintels E04C 3/02)}
2001/5893	• • • {Puzzle type connections}	1/646 { obtained by removal and replacement of a
1/61	• of slab-shaped building elements with each other	horizontal layer of an existing wall}
1/6104	• • • {the overlapping ends of the slabs connected	1/648 {obtained by injection or infiltration of
1/6108	together} {the frontal surfaces of the slabs connected	water-proofing agents into an existing wall}
1/0100	together}	1/66 . Sealings ({damp-proof courses <u>E04B 1/644</u> ;
1/6112	• • • • {by clamping, e.g. friction, means on lateral	fire-proof sealings <u>E04B 1/948</u> }; additions of anti-leak properties to plaster <u>C04B</u> ;
	surfaces}	bituminous sealing masses <u>C08L 95/00</u> ; sealings
1/6116	• • • {by locking means on lateral surfaces}	for hydraulic engineering work in general
1/612	• • • {by means between frontal surfaces}	E02B 3/16; against ground humidity or ground
1/6125	• • • • { with protrusions on the one frontal	water <u>E02D 31/02</u> ; coverings against rain or
	surface co-operating with recesses in the	other precipitations of the atmosphere <u>E04D</u> ;
1/6120	other frontal surface}	composition of material or manufacture of sealing foils, see the relevant classes for these foils)
1/6129 1/6133	<ul><li> {the connection made by expansion}</li><li> {the connection made by friction-grip}</li></ul>	1/665 {Sheets or foils impervious to water and water
1/6137	{the connection made by friction-grip}	vapor}
1/6141	{the connection made by nonmocking}	1/68 of joints, e.g. expansion joints (packing
1,0111	locking key}	for joints in roads or airfields E01C 11/02;
1/6145	{ with recesses in both frontal surfaces co-	expansion joints for bridges <u>E01D 19/06</u> ;
	operating with an additional connecting	sealing joints between foundation piles
	element}	E02D 5/14; joints in foundation structures E02D 29/16; devices for sealing the spaces
1/615	• • • • • {the connection made by expansion}	or joints between roof-covering elements
1/6154	• • • • • {the connection made by friction-grip}	E04D 1/36; sealing joints between roof-
1/6158	{the connection made by formlocking}	covering elements <u>E04D 3/38</u> ; {construction of
1/6162	{ the connection made by an additional locking key }	joints for flooring or floor layers composed of
1/6166	• • • • { with protrusions on both frontal surfaces }	a number of similar elements E04F 15/02005};
1/617	{with protrusions on both Holital surfaces}	construction of joints for flooring or floor
1/01/	surface}	layers made of masses in situ E04F 15/14)  1/6801 {Fillings therefor}
1/6175	• • • • { with two or more protrusions on each	1/6803 {Joint covers ( <u>E04B 1/6815</u> takes
	frontal surface}	precedence)}
1/6179	• • • • { with protrusions and recesses on each	1/6804 {specially adapted for floor parts}
	frontal surface}	1/6806 {Waterstops ( <u>E04B 1/6807</u> takes
		precedence)}

1/6807	• • • {Expansion elements for parts cast in situ}	1/76 specifically with respect to heat only (heat
1/6809	{Reverse side strips}	insulation in general F16L 59/00)
1/681	• • • { for free moving parts }	1/7604 {fillings for cavity walls}
1/6812	• • • {Compressable seals of solid form}	1/7608 {comprising a prefabricated insulating layer
1/6813	• • • {Compressable seals of hollow form	disposed between two other layers or panels
	(E04B 1/6816 takes precedence)	1/7612 {in combination with an air space}
1/6815	• • • {Expansion elements specially adapted for wall or ceiling parts}	1/7616 { with insulation-layer locating devices combined with wall ties}
1/6816	• • • {Porous tubular seals for injecting sealing	1/762 {Exterior insulation of exterior walls}
	material (filling of cracks in existing buildings <u>E04G 23/02</u> )}	1/7625 {Details of the adhesive connection of the insulation to the wall}
2001/6818	{Joints with swellable parts}	1/7629 {Details of the mechanical connection of
1/70	• • Drying or keeping dry, e.g. by air vents ({using	the insulation to the wall}
	damp-proof courses <u>E04B 1/644</u> ; using sealings, e.g. sealing masses or foils, <u>E04B 1/66</u> }; during	1/7633 {Dowels with enlarged insulation retaining head}
	erection <u>E04G 21/28</u> )	1/7637 {Anchoring of separate elements through
1/7007	• • • {by using electricity, e.g. electro-osmosis	the lining to the wall}
	(electrochemical desalination or re-alkalisation	1/7641 {Elements for window or door openings,
1/7015	of reinforced concrete <u>C04B 41/00</u> )}	or for corners of the building}
1/7015	(by collecting water in becoments)	1/7645 {with ventilation means for the insulation
1/7023 1/703	<ul><li>. • {by collecting water in basements}</li><li>. • {Evacuating water from walls made from</li></ul>	1/765 {Bottom edge finishing profile}
1/703	hollow bricks}	1/7654 {comprising an insulating layer, disposed between two longitudinal supporting
1/7038	• • {Evacuating water from cavity walls, e.g. by	elements, e.g. to insulate ceilings}
1, 7030	using weep holes}	1/7658 {comprising fiber insulation, e.g. as pane
1/7046	· · · · {using trays}	or loose filled fibres}
1/7053	{Grills for weep holes}	1/7662 {comprising fiber blankets or batts}
1/7061	• • • • {Devices for preventing blockage of weep	1/7666 {Connection of blankets or batts to
	holes, e.g. a blockage caused by falling	the longitudinal supporting elements
	mortar}	1/767 {Blankets or batts with connecting
1/7069	• • • {by ventilating (means for ventilating in	flanges}
	floors <u>E04B 5/48</u> , in ceilings <u>E04B 9/02</u> , in building blocks <u>E04C 1/392</u> , in building panels	1/7675 {Insulating linings for the interior face of
	E04C 2/521, in roofs E04D 13/16; ventilating	exterior walls} 2001/7679 {Means preventing cold bridging at the
	wall coverings <u>E04F 13/007</u> )}	junction of an exterior wall with an interior
1/7076	{Air vents for walls}	wall or a floor}
1/7084	• • • { with Knappen systems, i.e. atmospheric	2001/7683 {Fibrous blankets or panels characterised by
	siphons}	the orientation of the fibres}
1/7092	{Temporary mechanical ventilation of damp	2001/7687 {Crumble resistant fibrous blankets or pane
1 /70	layers, e.g. insulation of a floating floor}	using adhesives or meltable fibres}
1/72	• Pest control (by keeping dry <u>E04B 1/70;</u> impregnation of wood or like materials <u>B27K</u> )	2001/7691 {Heat reflecting layers or coatings}
1/74	Heat, sound or noise insulation, absorption,	2001/7695 {Panels with adjustable width} 1/78 Heat insulating elements {(E04B 1/7662)
1//-	or reflection (forms of, or arrangements in,	takes precedence)}
	rooms for influencing or directing sound	1/80 slab-shaped
	E04B 1/99); Other building methods affording	1/803 { with vacuum spaces included in the
	favourable thermal or acoustical conditions,	slab}
	e.g. accumulating of heat within walls (fire	1/806 { with air or gas pockets included in the
	protection <u>E04B 1/94</u> ; elements chiefly adapted for structural purposes <u>E04C 1/00</u> - <u>E04C 3/00</u> ;	slab}
	chiefly adapted for surface coverings <u>E04F 13/00</u> ;	1/82 specifically with respect to sound only ({of
	as underlayers for floor coverings <u>E04F 15/18</u> ;	floors or ceilings <u>E04B 9/001;</u> } noise damping
	closures for wall or like openings E06B)	in ducts or channels <u>E04F 17/00</u> ; noise damping in general <u>G10K 11/16</u> )
2001/741	• • • {Insulation elements with markings, e.g.	1/8209 {sound absorbing devices ( <u>E04B 1/8218</u> ,
2001/742	identification or cutting template} {Use of special materials; Materials having	E04B 1/8227 take precedence)}
2001/142	special structures or shape}	1/8218 {soundproof enclosures}
2001/743	• • • {Animal products, e.g. wool, feathers}	1/8227 {screens ( $\underline{\text{E04B 2/74}}$ takes precedence; for
2001/745	• • • {Vegetal products, e.g. plant stems, barks}	road or railway traffic <u>E01F</u> ); Arrangement
2001/746	• • • {Recycled materials, e.g. made of used tires,	of sound-absorbing elements, e.g. baffles} 1/8236 {Stage shells}
	bumpers or newspapers}	2001/8245 {Stage shens}
2001/747	{Corrugated materials}	piercing or filling sound insulating element.
2001/748	• • • {Honeycomb materials}	1 0 3 9

2001/8254 {Soundproof supporting of building elements, e.g. stairs, floor slabs or beams, on a structure}	1/94	• • • against fire ({fire protection of partitions <u>E04B 2/7403</u> , <u>E04B 2/7409</u> ; supporting constructions for ceilings having the capability
2001/8263 {Mounting of acoustical elements on supporting structure, e.g. framework or wall surface}		of expansion in case of fire E04B 9/08}; fire-fighting A62C, {e.g. fire prevention or containment A62C 2/00}; impregnation of
2001/8272 {Resiliently mounted wall cladding acting as a diaphragmatic sound damper}		wood or similar materials <u>B27K</u> ; {fireproof paints <u>C09D 5/18</u> ; fireproofing materials
2001/8281 {Flat elements mounted parallel to a supporting surface with an acoustically active air gap between the elements and the mounting surface}		C09K 21/00; flame-resistant papers  D21H 5/0002; coverings or linings, e.g. for walls or ceilings, in general E04F 13/00}; fireproof doors E06B 5/16; {firebreak devices
2001/829 {Flat elements mounted at an angle, e.g. right angle, to the supporting surface}		for pipes or the like passing through walls <u>F16L 5/04</u> ; protection of pipes by means of non-inflammable material <u>F16L 57/04</u> })
1/84 Sound-absorbing elements	1/941	{Building elements specially adapted
1/8404 {block-shaped}	1/241	therefor}
1/8409 {sheet-shaped}	1/942	{slab-shaped}
2001/8414 { with non-planar face, e.g. curved, egg-	1/943	· · · · {elongated}
crate shaped}	1/944	{covered with fire-proofing material}
2001/8419 {Acoustical cones or the like, e.g. for		{Load-supporting structures specially
anechoic chambers} 2001/8423 {Tray or frame type panels or blocks, with	1/945	adapted therefor}
or without acoustical filling}	1/946	• • • • {Protection against smoke or toxic gases}
2001/8428 {containing specially shaped acoustical bodies, e.g. funnels, egg-crates,	1/947	• • • • {by closing openings in walls or the like in the case of fire (fire-proof doors <u>E06B 5/16</u> )}
fanfolds}	1/948	• • • {Fire-proof sealings or joints (for doors or windows <u>E06B 5/164</u> )}
2001/8433 { with holes in their face }	2001/949	• • • {Construction elements filled with liquid,
2001/8438 {Slot shaped holes}		e.g. water, either permanently or only in case
2001/8442 {Tray type elements}		of fire}
2001/8447 {with two facing trays}	1/98	• • against vibrations or shocks (on foundations
2001/8452 { with peripheral frame members}		E02D 31/08); against mechanical destruction,
2001/8457 {Solid slabs or blocks}		e.g. by air-raids (against incendiary damage
2001/8461 {layered}		only <u>E04B 1/94</u> ; finishing work therefor <u>E04F</u> ;
2001/8466 { with an intermediate layer formed of lines or dots of elastic material }		buildings withstanding earthquake or the like, shelters, arrangements of splintercatching walls
2001/8471 {with non-planar interior transition surfaces between layers, e.g. faceted,	1/99	E04H 9/00)  Room acoustics, i.e. forms of, or arrangements
corrugated} 2001/8476 { with acoustical cavities, with or without acoustical filling}		in, rooms for influencing or directing sound (E04B 1/82 takes precedence; acoustics in general G10K 11/00; electric signal processing
2001/848 { the cavities opening onto the face of the element }		for producing a reverberation or echo sound G10K 15/08)
2001/8485 {the opening being restricted, e.g.	1/994	{Acoustical surfaces with adjustment}
forming Helmoltz resonators}		mechanisms}
2001/849 {Groove or slot type openings}	2/00	Wallana mandidiana fambarildinas Wall
2001/8495 { the openings going through from one face to the other face of the	2/00	Walls, e.g. partitions, for buildings; Wall construction with regard to insulation; Connections specially adapted to walls (connections
element}		for building structures in general E04B 1/38;
1/86 slab-shaped		insulation for buildings in general E04B 1/62;
1/88 Insulating elements for both heat and sound		building elements of relatively thin form for parts of
1/90 slab-shaped		buildings E04C 2/00)
1/92 . Protection against other undesired influences or	2/02	built-up from layers of building elements
dangers (buildings providing protection against	2002/0202	• • {Details of connections}
external dangers <u>E04H 9/00</u> ; shielding against	2002/0204	• • (Non-undercut connections, e.g. tongue and
dangerous radiation <u>G21F</u> )	3201	groove connections}
2001/925 {Protection against harmful electro-magnetic or	2002/0206	• • • {of rectangular shape}
radio-active radiations, e.g. X-rays}	2002/0208	• • • • {of trapezoidal shape}
	2002/021	• • • • {of triangular shape}
	2002/0213	• • • • {of round shape}
	2002/0215	• • • • {with separate protrusions}
	2002/0217	• • • • {of prismatic shape}
	2002/0219	• • • • {of pyramidal shape}
		• • • • {of conical shape}

2002/0223	{of cylindrical shape}	2/16 using elements having specially-designed
2002/0226	• • • { with tongues and grooves next to each other	means for stabilising the position
2002/0228	on the end surface} { with tongues next to each other on one end	2/18 by interlocking of projections or inserts with indentations, e.g. of tongues, grooves, dovetails
	surface and grooves next to each other on opposite end surface}	2/20 by filling material with or without
2002/023	• • • {with rabbets, e.g. stepped}	reinforcements in small channels in, or in
2002/0232	{Undercut connections, e.g. using undercut	grooves between, the elements
2002/0224	tongues and grooves}	2/22 using elements having a general shape differing from that of a parallelepiped
	<ul><li> {Angular dovetails}</li><li> {tapered, i.e. dovetail narrows in the</li></ul>	2/24 the walls being characterised by fillings in
	direction of tongue or groove}	some of the cavities forming load-bearing
	• • • {Round dovetails}	pillars or beams  2/26 the walls being characterised by fillings in all
2002/0241	{tapered, i.e. dovetail narrows in the direction of tongue or groove}	2/26 the walls being characterised by fillings in all cavities in order to form a wall construction
2002/0243	{Separate connectors or inserts, e.g. pegs, pins	2/28 Walls having cavities between, but not in, the
	or keys}	elements; Walls of elements each consisting of two or more parts kept in distance by means of
	• • • {Pegs or pins}	spacers, all parts being solid
	<ul><li> {Strips or bars}</li><li> {U-shaped, e.g. brackets}</li></ul>	2/30 using elements having specially designed
	{O-shaped, e.g. blackets}	means for stabilising the position; Spacers
	{Tie rods}	for cavity walls {(masonry wall ties <u>E04B 1/4178</u> )}
2002/0256	• • {Special features of building elements}	2/32 by interlocking of projections or inserts
	• • • {Gripping or handling aids}	with indentations, e.g. of tongues, grooves,
	• • • {Splittable building elements}	dovetails
	{Building elements for making angled walls}	2/34 by filling material with or without
	{Building elements for making arcuate walls}	reinforcements in small channels in, or in
2002/0267	• • {Building elements with the appearance of several bricks}	grooves between, the elements  2/36 using elements having a general shape differing
2002/0269	{Building elements with a natural stone facing}	from that of a parallelepiped
	{Building elements with the appearance of rock	2/38 the walls being characterised by fillings in
	layers}	some of the cavities forming load-bearing
2002/0273	{Adhesive layers other than mortar between	pillars or beams
2002/0276	building elements} {Separate layers or strips}	2/40 the walls being characterised by fillings in all cavities in order to form a wall construction
	• • • {Separate tayers of strips} • • • • {forming a unity with the building elements}	2/42 • Walls having cavities between, as well as in, the
	{Spacers between building elements}	elements; Walls of elements each consisting of
	{Separate spacers}	two or more parts, kept in distance by means of
2002/0284	• • • {forming a unity with the building elements}	spacers, at least one of the parts having cavities
	• • • {Building elements with coatings}	2/44 using elements having specially-designed means for stabilising the position; Spacers
2002/0289	{Building elements with holes filled with	for cavity walls {(masonry wall ties
2002/0291	insulating material} {loose material}	E04B 1/4178)}
2002/0291	{solid material}	2/46 by interlocking of projections or inserts
2002/0295	• • {of which the width is equal to the wall	with indentations, e.g. of tongues, grooves, dovetails
	thickness}	2/48 by filling material with or without
2002/0297	• • (of which the width is less than the wall	reinforcements in small channels in, or in
2/04	thickness} Walls having neither cavities between, nor in, the	grooves between, the elements
2/04	solid elements	2/50 using elements having a general shape differing from that of a parallelepiped
2/06	using elements having specially-designed	2/52 the walls being characterised by fillings in
2/00	means for stabilising the position	some of the cavities forming load-bearing
2/08	• • • by interlocking of projections or inserts with indentations, e.g. of tongues, grooves,	pillars or beams
	dovetails	2/54 the walls being characterised by fillings in all cavities in order to form a wall construction
2/10	by filling material with or without	2/56 . {Load-bearing} walls of framework or pillarwork;
	reinforcements in small channels in, or in	Walls incorporating load-bearing elongated
2/12	grooves between, the elements using elements having a general shape differing	members (E04B 2/74, E04B 2/88 take precedence;
2/12	from that of a parallelepiped	pillars <u>E04C 3/30</u> )
2/14	Walls having cavities in, but not between, the	2/562 • { with fillings between the load-bearing elongated members }
	elements, i.e. each cavity being enclosed by at	2002/565 • • {with a brick veneer facing}
	least four sides forming part of one single element	

2002/567	• • {with posts or pillars made from a plurality of	2002/742 {Details of panel top cap}
	smaller prefabricated elements}	2/7422 {with separate framed panels without
2/58	• with elongated members of metal	intermediary support posts}
2/60	characterised by special cross-section of the	2/7424 {Glazing details}
2/62	elongated members the members being formed of two or more	2/7425 {Details of connection of panels (E04B 2/7427 takes precedence)}
2/02	elements in side-by-side relationship	2/7427 {with adjustable angular connection of
2/64	with elongated members of concrete	panels}
2/66	characterised by special cross-section of the	2/7429 {using flexible hinges}
_, _,	elongated members	2/7431 {using hinges having two parallel
2/68	made by filling-up wall cavities (E04B 2/24,	rotation axes}
	E04B 2/38, E04B 2/52 take precedence)	2/7433 {with panels and support posts}
2/70	with elongated members of wood	2/7435 {Glazing details}
2/701	• • • {with integrated supporting and obturation	2/7437 { with panels hooked onto posts
	function}	$(\underline{E04B \ 2/7438} \text{ takes precedence})$
2/702	• • • { with longitudinal horizontal elements	2/7438 {with adjustable angular connection of
2/702	( <u>E04B 2/704</u> , <u>E04B 2/705</u> take precedence)}	panels to posts}
2/703 2/704	<ul><li> {with longitudinal vertical elements}</li><li> {with longitudinal horizontal elements</li></ul>	2/744 {using angularly-spaced longitudinal
2/704	shorter than the length of a wall}	grooves of the posts} 2/7442 {hinged connections (E04B 2/7444
2/705	• • • { with longitudinal horizontal elements	takes precedence)}
2/103	placed between columns}	2/7444 {panels hooked onto the rim or in a
2/706	• • { with supporting function }	groove of circular posts}
2/707	{obturation by means of panels}	2002/7446 {Post-like profiles for connecting panels at
2/708	{obturation by means of longitudinal	an angle}
	elements with a convex external surface}	2/7448 { with separate framed panels without
2/709	• • • {obturation by means of longitudinal	intermediary posts, extending from floor to
	elements with a plane external surface}	ceiling}
2/72	• {Non-load-bearing} walls of elements of relatively	2/745 {Glazing details}
	thin form {with respect to the thickness of the	2/7451 { with false tongue joints}
	wall}(E04B 2/56, E04B 2/74, E04B 2/88 take precedence; with joint fillings acting as framework	2/7453 { with panels and support posts, extending from
	or pillars <u>E04B 2/68</u> ; elements <u>E04C 2/00</u> )	floor to ceiling} 2/7455 {Glazing details}
2/721	• {connections specially adapted therefor}	2/7457 {Grazing details}
2/723	• {constituted of gypsum elements}	faces of the posts, parallel to the partition
2002/725	• • {Corner or angle connection details}	(E04B 2/7459 takes precedence)
2002/726	{Clips for butt-joining plasterbords}	2/7459 { with telescoping posts to compensate for
2002/728	{Butt-joining plasterboards in the space	floor or ceiling irregularities}
	between two studs}	2002/7461 {Details of connection of sheet panels to frame or
2/74	<ul> <li>Removable non-load-bearing partitions; Partitions</li> </ul>	posts}
	with a free upper edge (framed panels <u>E04C 2/38</u> )	2002/7462 {using resilient connectors, e.g. clips}
2/7401	• • {assembled using panels without a frame or	2002/7464 {clasping a flange of a profile}
	supporting posts, with or without upper or lower	2002/7466 {using hooks}
2/7403	edge locating rails} { with special measures for sound or thermal	2002/7468 {using magnets}
2/7403	insulation including fire protection}	2002/747 {using hook and loop-type fasteners}
2/7405	• • • { with free upper edge, e.g. for use as office	2002/7472 {using adhesives}
2// 100	space dividers}	2002/7474 {using releasable connectors actuable with a key or a tool}
2/7407	• • {assembled using frames with infill panels or	2002/7475 {using connectors with claws penetrating the
	coverings only; made-up of panels and a support	sheet panels}
	structure incorporating posts (E04B 2/78 and	2002/7477 {Details of connections using screws or nails}
	E04B 2/80 take precedence)}	2002/7479 {Details of connection of flexible sheets to frame
2/7409	• • • {special measures for sound or thermal	or posts}
0/7411	insulation, including fire protection}	2002/7481 {Locating rails with adjustable curvature}
2/7411	{Details for fire protection}	2002/7483 • • {Details of furniture, e.g. tables or shelves,
2/7412	• • • {Posts or frame members specially adapted for reduced sound or heat transmission}	associated with the partitions}
2/7414	• • • {Posts or frame members with projections	2002/7485 {Load supports therefor placed between wall
۷,, ۲11	for holding sound or heat insulating fillings}	studs}
2/7416	• • • { with free upper edge, e.g. for use as office	2002/7488 • • {Partitions with slotted profiles}
-	space dividers}	2002/7488 • • {Details of wiring}
2002/7418	{Accessories supported on the free upper	2002/749 {Partitions with screw-type jacks} 2002/7492 {used in partitions extending from floor to
	edge, e.g. auxiliary panels, noise abatement	ceiling }
	devices}	coning)

20027496 (sasing wedges to level or hold the partition in placy) 200274978 (Partitions for clean rooms) 2760 (Partitions for clean rooms) 2761 (L-connections) 2762 (Cross connections) 2763 (with one continuous profile, the perpendicular one passing continuously through the first one) 2764 (with one continuous profile, the perpendicular one passing continuously through the first one) 2765 (with one continuous profile, the perpendicular one being interrupted) 2766 (T-connections) 2767 (Connections between wall study and upper or lower boundary or lower boundary of lower to see the perpendicular one being interrupted) 2768 (Jallowing venteal movement of upper rail with respect to the stud, e.g., Py tesing store without the holp of cover-stript of the finant nembers (as far a important for securing wall panels to a framework with or without the holp of cover-stript of the finant nembers (as far a important for securing wall panels to a framework with or without the holp of cover-stript of the finant nembers (as far a important for securing wall panels to a framework with or without the holp of cover-stript projections) 27892 (of single or multiple turbular from) 27893 (of single or multiple turbular from) 27894 (with the solution) 27895 (with disc) (of open profile) 27896 (with first solution) 27896 (of single or multiple turbular from) 27897 (with an interrupted proper solution) 27898 (of substantially 1-section with web perpendicular to plane of partition) 27898 (with first solution) 27898 (of substantially 1-section with web perpendicular to plane of partition) 2899 (of substantially 1-section with every perpendicular to plane of partition) 2890 (of substantially 1-section with web perpendicular to plane of partition) 2890 (with first solution) 2890 (with first solution) 2891 (with first solution) 2892 (connections) between two opposed surfaces (e.f. froor and celling heips achieved without any extention of the partition in leastifularly the opposing surface) 2892 (the connections between the floor and the celli		• • • { the jacks being located at the top or the side of the partition}	2/84	• Walls made by casting, pouring, or tamping in situ (E04B 2/02, E04B 2/56 take precedence; forms
200274988   . [Partitions for clean rooms]   2766   . (with transector or posts of metal (details of connections, thresholds or skirtings E04B 282)   2761   . (1-connections)   2762   . (Cross connections)   2763   . (with one continuous profile, the perpendicular one passing continuously through the first one]   2766   . (with one continuous profile, the perpendicular one being interrupted)   2766   . (with one continuous profile, the perpendicular one being interrupted)   2766   . (with one continuous profile, the perpendicular one being interrupted)   2766   . (with one continuous profile, the perpendicular one being interrupted)   2767   . (Connections)   2768   . (allowing vertical movement of upper rail with respect to the stud, e.g. by using slots in the rail or stud)   27627   . (Connections between the study of the frame members [as far as important for security wall panels to a framework with or without the help of cover-strips)   27680   . (allowing vertical movement of upper rail with respect to the stud, e.g. by using slots in the rail or stud)   27629   . (with the part of the frame members [as far as important for security wall panels to a framework with or without the help of cover-strips)   27680   . (of single name of the profiles having substantially similar undereut grooves or connecting projections)   27681   . (with dissipationally assistantially similar undereut grooves or connecting projections)   27681   . (with units of the forms)   27682   . (with ties of the forms)   27685   . (with units of the forms)   276864   . (with decirally the order of the profiles having substantially similar undereut grooves or connecting projections)   276864   . (with decirally the order of the profiles having substantially similar undereut grooves or connecting projections)   276864   . (with test panel for farmation)   276865   . (with test panel for farmation)   27686	2002/7496			therefor <u>E04G 11/06</u> ; working of concrete or similar masses able to be cast or poured in situ <u>E04G 21/02</u> )
connections, thresholds or skirtings E04B 2829) 27612		• • {Partitions for clean rooms}	2/842	• • {by projecting or otherwise applying hardenable
2762 (Cross connections) 2763 (with one continuous profile, the perpendicular one passing continuously drough the first one] 2764 (with two interrupted profiles) 2765 (with one cuntinuous profile, the perpendicular one being interrupted) 2766 (Terconnections) 2767 (Connections between wall studs and upper or lower locating rails) 2768 (allowing vertical movement of upper rail with respect to the stud, e.g. by using stors in the rail or stud] 2768 (allowing vertical movement of upper rail with respect to the stud, e.g. by using stors in the rail or stud] 2778 (chancerised by special cross-section of the frame members (as far as important for securing wall panels to a framework with or without the hop of cover-stripts) 277807 (of single or multiple tubular form) 277818 (of substantially terming the shaving substantially similar undercut grooves or connecting projections) 277845 (of curved cross-section, e.g. circular) 277863 (of substantially the substantially similar undercut grooves or connecting projections) 277845 (of curved cross-section, e.g. circular) 277863 (of substantially the section with Manges perpendicular to plane of partition) 277872 (of substantially the section with Manges perpendicular to plane of partition) 277873 (of substantially the section with Manges perpendicular to plane of partition) 277874 (of substantially the section with one perpendicular to plane of partition) 277875 (of substantially the section with diages are connected to the building) the manner in which edges are connected to the building Means therefor, Special details of easily removable partitions (a.g. for substantially the partition of the building) to call partition (a.g. for substantially at the copposing surface) 27821 (Connections between the opposing surface) 27822 (Inthe connection, e.g. inflated joints) 27823 (Inthe connection between the partition) 27824 (Inthe connection between the partition) 27825 (Inthe connection between the partition) 27826 (Inthe connection between the partition) 27827 (Inthe connection be		connections, thresholds or skirtings <u>E04B 2/82</u> )}	2/845	• • { the form leaf comprising a wire netting, lattice
2763			2/847	•
perpendicular one passing continuously through the first one)  2764			2/04/	
through the first one   27605	2/103		2/86	- · · ·
2765   with one continuous profile, the perpendicular one being interrupted   2766   (T-connections)   2767   (Connections between wall studs and upper or lower locating rails)   2768   (allowing vertical movement of upper rail with respect to the stud, e.g. by using slots in the rail or stud)   2768   (allowing vertical movement of upper rail with respect to the stud, e.g. by using slots in the rail or stud)   2768   (with spacers and at least one form leaf being monolithic)   2768   (with the help of cover-strips)   (of single or multiple tubular form)   2768   (with all four sides of the profiles having substantially similar undercut grooves or connecting projections)   2768   (with only two sides of the profiles having substantially similar undercut grooves or connecting projections)   2778   (of curved cross-section, e.g. circular)   2778   (of curved cross-section, e.g. circular)   2778   (of substantially I - section with web perpendicular to plane of partition)   2778   (of substantially I - section with the perpendicular to plane of partition)   2778   (of substantially S - or Z - section; having a shape or cross-section adapted for gripping or overlapping panels by means of at least partially cumplementary shaped partialle clements   (substantially U - or C - section)   278   (connections between two opposed surfaces (e. floor and ceiting) by means of a device offering a restraining force acting in the plane of the partition)   278   (Connection between the floor and the ceiling being achieved without any restraining forces acting in the plane of the partition)   278   (Connection between the floor and the ceiling being achieved without any restraining forces acting in the plane of the partition)   (Connection between the floor and the ceiling being achieved without any restraining forces acting in the plane of the partition)   (Connection between the floor and the ceiling being achieved without any restraining forces acting			2/8605	• • • {without spacers}
perpendicular one being interrupted) 2766	2/764	• • • { with two interrupted profiles}	2/8611	· · · · · · · · · · · · · · · · · · ·
2766   (T-connections)	2/765		0/0<15	·
2/767 (Connections between wall studs and upper or lower locating rails) 2/768 allowing vertical movement of upper rail with respect to the stud, e.g. by using slots in the rail or stud) 2/78 characterised by special cross-section of the farame members [as far as important for securing wall panels to a framework with or without the help of cover-strips] 2/7899 . [of single or multiple tubular form] 2/7818 . [of substantially rectangular form] 2/7819 . [with all four sides of the profiles having substantially similar undereut grooves or connecting projections] 2/7836 . [with only two sides of the profiles having substantially similar undereut grooves or connecting projections] 2/7845 . [of orewed cross-section of the visual properties] 2/7846 . [of substantially 1- section with web perpendicular to plane of partition] 2/7872 . [of substantially 1- section with meb perpendicular to plane of partition] 2/7873 . [of substantially 1- section with flanges a shape or cross-section adapted for gripping or overlapping panels by means of at least partially complementary shaped parallel elements] 2/789 . [of substantially 1- or C- section] 2/789 . [of substantially 1- or C- section] 2/789 . [of substantially 1- section with deep perpendicular to plane of partition] 2/789 . [of substantially 1- or C- section] 2/780 . [of substantially 1- or C- section] 2/781 . [of open profile] 2/782 . [of substantially 1- or C- section] 2/783 . [of substantially 1- or C- section] 2/784 . [of open profile] 2/785 . [of substantially 1- or C- section] 2/786 . [of substantially 1- or C- section] 2/787 . [of substantially 1- or C- section] 2/788 . [of substantially 1- or C- section] 2/789 . [of substantially 1- or C- section] 2/789 . [of substantially 1- or C- section] 2/789 . [of substantially 1- or C- section] 2	2/7/		2/8617	
2/78			2/8623	,
with respect to the stud, e.g. by using slots in the rail or stud)  2/8	2//0/		2/0023	
2/88	2/768		2/8629	
2/78 characterised by special cross-section of the frame members (as far as important for securing wall panels to a framework with or without the help of cover-strips)  2/7809 (of single or multiple tubular form)  2/7818 (of substantially rectangular form)  2/7827 (with all four sides of the profiles having substantially similar undereut grooves or connecting projections)  2/7836 (with only two sides of the profiles having substantially similar undereut grooves or connecting projections)  2/7845 (of curved cross-section, e.g. circular)  2/7845 (of open profile)  2/7846 (of open profile)  2/7846 (of open profile)  2/7847 (of substantially I - section with web perpendicular to plane of partition)  2/7847 (of substantially S - or Z - section; having a shape or cross-section adapted for gripping or overlapping panels by means of a teast partially complementary shaped parallel elements)  2/789 (of substantially U - or C - section)  2/789 (of connection setween two opposed surfaces far as related to the connection with other parts of the building)  2/80 (with rise going through the forms)  2/80 (with ties going through the forms)  2/8652 (with ties log obstile to the forms {			2/0/27	,
the frame members (as far as important for securing wall panels to a framework with or without the help of cover-strips)  27809 . (of single or multiple tubular form) 27818 . (of substantially serial and the help of cover-strips) 27827 . (with all four sides of the profiles having substantially similar undercut grooves or connecting projections) 27836 . (with only two sides of the profiles having substantially similar undercut grooves or connecting projections) 27845 . (of curved cross-section, e.g. circular) 27845 . (of curved cross-section, e.g. circular) 27846 . (of open profile) 27887 . (of substantially I - section with web perpendicular to plane of partition) 27881 . (of substantially I - section with web perpendicular to plane of partition) 27881 . (of substantially I - section with web perpendicular to plane of partition) 27882 . (of substantially I - section with langes perpendicular to plane of partition) 27881 . (of substantially I - section with web perpendicular to plane of partition) 27882 . (of substantially to overlaping a panels by means of a teast partially complementary shaped parallel elements) 2789 . (of substantially to or C- section) 2780 . with framework or posts of wood 282 . characterised by the manner in which edges are connected to the building; Means therefor; Special details of easily-removable partitions (as far as related to the connection with other parts of the building) 27821 . (Connections between two opposed surfaces (i.e. floor and celling) by means of a device offering a restraining force acting in the plane of the partition) 27822 . (Elastic connections, e.g. inflated joints) 27823 . (the connection between the floor and the celling being achieved without any restraining forces acting in the plane of the partition) 27824 . (Textrained elastically at one surface and inelastically at the opposing surface) (i.e. floor and celling) by means of a device offering a restrainine force acting in the plane of the partition and resulting the forms of the building) 27824 . (Econnecti	2/50		2/8635	
securing wall panels to a framework with or without the help of cover-strips]  2/7809	2/78			
27809 (of single or multiple tubular form) 27818 (of substantially rectangular form) 27827 (with all four sides of the profiles having substantially similar undereut grooves or connecting projections) 27836 (with only two sides of the profiles having substantially similar undereut grooves or connecting projections) 27845 (of curved cross-section, e.g. circular) 27845 (of open profile) 27863 (of open profile) 27864 (of open profile) 27865 (of substantially I - section with web perpendicular to plane of partition) 27881 (of substantially H - section with the perpendicular to plane of partition) 27882 (of substantially U - or C - section) 27883 (of substantially U - or C - section) 27884 (of of substantially U - or C - section) 27885 (of substantially U - or C - section) 27886 (connections between two opposed surfaces (i.e. floor and celling) by means of a device offering a restraining force acting in the plane of the partition) 2782 (Elastic connection between the floor and the ceiling being achieved without any restraining forces acting in the plane of the partition) 2782 (Fertitions constituted of sliding panels) 2783 (Fertitions constituted of sliding panels) 2784 (Fertitions constituted of sliding panels) 2785 (Floors; Floor construction with regard to insulation; Connections specially adapted therefor (elements for flooring, sectional false floors, e.g. for computers for prefabricated of floor-slabs) 2785 (Connections between two opposing structures form unline) and transoms) 2786 (connections between two opposed surfaces (i.e. floor and celling) by means of a device offering a restraining force acting in the plane of the partition) 2786 (connections between two opposing surface) 3787 (connections of mullions or transoms (E04B 2.995 takes precedence)) 3788 (connections between two opposing surface) 3788 (connections bet			2/8641	
27809 . {of single or multiple tubular form} 27818 . {of substantially rectangular form} 27827 {with all four sides of the profiles having substantially similar undereut grooves or connecting projections} 27836 {with only two sides of the profiles having substantially similar undereut grooves or connecting projections} 27845 {of curved cross-section, e.g. circular} 27845 {of open profile} 27863 . {of substantially I - section with web perpendicular to plane of partition} 27881 . {of substantially I - section with langes perpendicular to plane of partition} 27881 . {of substantially S - or Z - section; having a shape or cross-section adapted for gripping or overlapping panels by means of at least partially complementary shaped parallel elements} 2789 {of substantially U - or C - section} 280 with framework or posts of wood with framework or posts of wood the building; Means therefor; Special details of easily-removable partitions (as far as related to the connection with other parts of the building) 282 {Elastic connections between two opposed surfaces (i.e. floor and ceiling) by means of a device offering a restraining force acting in the plane of the partition) 282 {Elastic connections, e.g. inflated joints} 282 {Elastic connections between two opposing surface} 282 {Elastic connection between the floor and the ceiling being achieved without any restraining forces acting in the plane of the partition) 282 {Elastic connection between the floor and the ceiling being achieved without any restraining forces acting in the plane of the partition) 282 {Elastic connections between the floor and the ceiling being achieved without any restraining forces acting in the plane of the partition) 282 {Elastic connection between the floor and the ceiling being achieved without any restraining forces acting in the plane of the partition) 282 {Elastic connections between the floor and the ceiling being achieved without any restraining forces acting in the plane of the parti				
Leaves   L	2/7809			
2/7836 (with only two sides of the profiles having substantially similar undercut grooves or connecting projections) 2/7845 (with only two sides of the profiles having substantially similar undercut grooves or connecting projections) 2/7845 (of curved cross-section, e.g. circular) 2/7854 (of open profile) 2/7863 (of substantially I - section with web perpendicular to plane of partition) 2/7872 (of substantially H - section with flanges perpendicular to plane of partition) 2/7881 (of substantially S - or Z - section; having a shape or cross-section adapted for gripping or overlapping panels by means of at least partially complementary shaped parallel elements) 2/789 (of substantially U - or C - section) 2/780 (with framework or posts of wood 2/780 (with framework or posts of wood 2/82 (characterised by the manner in which edges are connected to the building; Means therefor; Special details of easily-removable partitions {as far as related to the connection with other parts of the building} 2/821 (Connections between two opposed surfaces (i.e. floor and ceiling) by means of a device offering a restraining force acting in the plane of the partition) 2/822 (Elastic connections, e.g. inflated joints) ceiling being achieved without any restraining force acting in the plane of the partition) 2/825 (the connection between the floor and the ceiling being achieved without any restraining force acting in the plane of the partition) 2/827 (Partitions constituted of sliding panels) 2/828 (Connections osmittuted of sliding panels) 2/828 (Connections osmittuted of sliding panels) 2/828 (Connections osmittuted of sliding panels) 2/828 (Connections constituted of sliding panels) 2/828 (Connections osmittured) 2/828 (Connections osmittuted of sliding panels) 2/828 (Connections osmitture	2/7818	• • • • {of substantially rectangular form}	2/8658	• • • {using wire netting, a lattice or the like as form
grooves or connecting projections)  27836 (with only two sides of the profiles having substantially similar undercut grooves or connecting projections)  27845 (of curved cross-section, e.g. circular)  27854 (of open profile)  27863 (of substantially I - section with web perpendicular to plane of partition)  27872 (of substantially I - section with flanges perpendicular to plane of partition)  27881 (of substantially S - or Z - section: having a shape or cross-section adapted for gripping or overlapping panels by means of at least partially complementary shaped parallel elements)  2789 (of substantially U - or C- section)  2780 (of furranged for gripping or overlapping panels by means of at least partially complementary shaped parallel elements)  2780 (of furranged for gripping or overlapping panels by means of the leafth of the partition)  2781 (of substantially U - or C- section)  2782 (Elastic connection with other parts of the partition)  2782 (Elastic connections, e.g., inflated joints)  2782 (Elastic connections, e.g., inflated joints)  2783 ((Incornections between two opposed surfaces (i.e. floor and the ceilling being achieved without any restraining force acting in the plane of the partition)  2782 (Elastic connection between the floor and the ceilling being achieved without any restraining force acting in the plane of the partition)  2782 ((Incortions between the floor and the ceilling being achieved without any restraining force acting in the plane of the partition)  2783 ((Incortions between the floor and the ceilling being achieved without any restraining force acting in the plane of the partition)  2784 ((Incornections between the floor and the ceilling being achieved without any restraining force acting in the plane of the partition)  2785 ((Incornections between the floor and the ceilling being achieved without any restraining force acting in the plane of the partition)  2786 ((Incornec	2/7827			,
2/7845 (with only two sides of the profiles having substantially similar undercut grooves or connecting projections) 2/7845 (of ourved cross-section, e.g. circular) 2/7854 (of open profile) 2/7863 (of substantially I - section with web perpendicular to plane of partition) 2/7863 (of substantially I - section with Web perpendicular to plane of partition) 2/7872 (of substantially H - section with flanges perpendicular to plane of partition) 2/7881 (of substantially S - or Z - section; having a shape or cross-section adapted for gripping or overlapping panels by means of at least partially complementary shaped parallel elements) 2/789 (of substantially I - or C - section) 2/780 with framework or posts of wood 2/780 (of substantially U - or C - section) 2/780 (of substantially S - or Z - section; having a shape or cross-section adapted for gripping or overlapping panels by means of at least partially complementary shaped parallel elements) 2/780 (of substantially S - or Z - section) 2/780 (of substantially S - or Z - section; having a shape or cross-section adapted for gripping or overlapping panels by means of at least partially complementary shaped parallel elements of the building; Means therefor; Special details of easily-removable partitions {as far as related to the connection with other parts of the building; Means therefor; Special details of easily-removable partitions {as far as related to the connection with other parts of the building; Means therefor; Special details of easily-removable partitions {as far as related to the connection with other parts of the building; Means therefor; Special details of easily-removable partitions {as far as related to the connection with other parts of the building; Means therefor; Special details of easily-removable partitions {as far as related to the connection with other parts of the building; Means therefor; Special details of easily-removable partitions {as far as related to the connection betw			2/8664	
having substantially similar undercut grooves or connecting projections   2002/8682	2/7926		2002/977	and the second s
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2/7881 {of substantially S - or Z - section; having a shape or cross-section adapted for gripping or overlapping panels by means of at least partially complementary shaped parallel elements} 2/90 {of substantially U- or C- section} 2/94 {of substantially U- or C- section} 2/95 Sandwich-type panels from the structure (E04B 2/885 takes precedence)} 2/98 {of substantially U- or C- section} 2/96 Concrete panels (E04B 2/92 takes precedence)} 2/98 (of substantially U- or C- section) 2/96 Concrete panels (E04B 2/92 takes precedence) 2/96 (comprising panels directly attached to the structure (E04B 2/885 takes precedence) 2/96 (comprising panels directly attached to the structure (E04B 2/885 takes precedence) 2/96 (comprising panels directly attached to the structure (E04B 2/885 takes precedence) 2/96 (comprising panels directly attached to the structure (E04B 2/885 takes precedence) 2/96 (comprising panels directly attached to the structure (E04B 2/885 takes precedence) 2/96 (comprising panels directly attached to the structure (E04B 2/885 takes precedence) 2/96 (comprising panels directly attached to the structure (E04B 2/885 takes precedence) 2/96 (comprising panels directly attached to the structure (E04B 2/885 takes precedence) 2/96 (comprising panels directly attached to the structure through mullions or transoms (E04B 2/92 takes precedence) 2/96 (comprising panels directly attached to the structure through mullions or transoms (E04B 2/96 takes precedence) 2/96 {with angles or corners in the curtain wall} 2/965 {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence) 2/965 {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence) 2/965 {Dotails of the cross-section of the mullions or transoms (E04B 2/965 takes precedence) 2/965 {Dotails of the cross-section of the mullions or transoms (E04B 2/965 takes precedence) 2/965 {D				
2/7881 {of substantially S - or Z - section; having a shape or cross-section adapted for gripping or overlapping panels by means of at least partially complementary shaped parallel elements}  2/789 {of substantially U - or C - section}  2/780 with framework or posts of wood  2/82 characterised by the manner in which edges are connected to the building; Means therefor; Special details of easily-removable partitions {as far as related to the connection with other parts of the building}  2/821 {Connections between two opposed surfaces (i.e. floor and ceiling) by means of a device offering a restraining force acting in the plane of the partition}  2/822 {Elastic connections, e.g. inflated joints}  2/823 {the connection between the floor and the ceiling being achieved without any restraining forces acting in the plane of the partition}  2/825 {the connection between the floor and the ceiling being achieved without any restraining forces acting in the plane of the partition}  2/826 {Partitions constituted of sliding panels}  2/96 comprising panels directly attached to the structure {(E04B 2/885 takes precedence)}  2/96 Concrete panels (E04B 2/92 takes precedence)  2/96 comprising panels directly attached to the structure {(E04B 2/95 takes precedence)}  2/96 Concrete panels (E04B 2/92 takes precedence)  2/96 {with angles or corners in the curtain wall}  2/96 {Connections of mullions and transoms}  2/965 {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)}  2/967 {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)}  2/968 {Elastic connections, e.g. inflated joints}  2/969 {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)}  2/960 {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)}  2/961 {Details of the cross-section of the oross-section of the oross-section of the oross-sect	2/7872			
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gripping or overlapping panels by means of at least partially complementary shaped parallel elements    2/789	2//881		2/00	0 01 /
of at least partially complementary shaped parallel elements}  2/82			2/90	
parallel elements 2/789 {of substantially U- or C- section} 2/96 {or concrete panels (E04B 2/92 takes precedence)} 2/96 Concrete panels (E04B 2/92 takes precedence) 2/96 comprising panels attached to the structure through mullions or transoms {(E04B 2/885 takes precedence)} are connected to the building; Means therefor; Special details of easily-removable partitions {as far as related to the connection with other parts of the building} 2/965 {Connections of mullions and transoms} 2/965 {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section of the mullions or transoms (E04B 2/965 takes precedence)} {Details of the cross-section			2/92	The state of the s
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Special details of easily-removable partitions {as far as related to the connection with other parts of the building}  2/821	2/82		<b>2</b> (0.12	
far as related to the connection with other parts of the building}  2/821				
2/821 {Connections between two opposed surfaces (i.e. floor and ceiling) by means of a device offering a restraining force acting in the plane of the partition}  2/822 {Elastic connections, e.g. inflated joints}  2/824 {restrained elastically at one surface and inelastically at the opposing surface}  2/825 {the connection between the floor and the ceiling being achieved without any restraining forces acting in the plane of the partition}  2/827 {Partitions constituted of sliding panels}  2/828 {Connections between partitions and structural  transoms (E04B 2/965 takes precedence)}  Floors; Floor construction with regard to insulation; Connections specially adapted therefor (elements for floors, e.g. bricks, stones, filling bodies, girders, E04C; flooring as finishing work, insulation of flooring, sectional false floors, e.g. for computers E04F 15/00)  5/02				
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offering a restraining force acting in the plane of the partition}  2/822 {Elastic connections, e.g. inflated joints}  2/824 {restrained elastically at one surface and inelastically at the opposing surface}  2/825 {the connection between the floor and the ceiling being achieved without any restraining forces acting in the plane of the partition}  2/827 {Partitions constituted of sliding panels}  2/828 {Connections between partitions and structural  insulation; Connections specially adapted therefor (elements for floors, e.g. bricks, stones, filling bodies, girders, <u>E04C</u> ; flooring as finishing work, insulation of flooring, sectional false floors, e.g. for computers <u>E04F 15/00</u> )  Load-carrying floor structures formed substantially of prefabricated units ( <u>E04B 5/43 - E04B 5/48 take precedence</u> )  S/023 {Separate connecting devices for prefabricated floor-slabs}	2/821			
of the partition}  2/822 {Elastic connections, e.g. inflated joints}  2/824 {restrained elastically at one surface and inelastically at the opposing surface}  2/825 {the connection between the floor and the ceiling being achieved without any restraining forces acting in the plane of the partition}  2/827 {Partitions constituted of sliding panels}  2/828 {Connections between partitions and structural}  (elements for floors, e.g. bricks, stones, filling bodies, girders, E04C; flooring as finishing work, insulation of flooring, sectional false floors, e.g. for computers E04F 15/00)  Load-carrying floor structures formed substantially of prefabricated units (E04B 5/43 - E04B 5/48 take precedence)  S/023 {Separate connecting devices for prefabricated floor-slabs}			5/00	
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ceiling being achieved without any restraining forces acting in the plane of the partition}  2/827 {Partitions constituted of sliding panels}  5/023 {Connections between partitions and structural}  5/023 {Connections between partitions and structural}  5/023 {Connections between partitions and structural}		inelastically at the opposing surface}		
forces acting in the plane of the partition}  2/827 {Partitions constituted of sliding panels}  5/023 {Connections between partitions and structural}  5/023 {Connections between partitions and structural}	2/825		5/02	
2/827 {Partitions constituted of sliding panels} 5/023 {Separate connecting devices for prefabricated floor-slabs}				-
2/828 {Connections between partitions and structural floor-slabs}	2/827		5/023	
2/020 • • • Connections between partitions and structural			5,025	
	2,020	· · · · · · · · · · · · · · · · · · ·	5/026	*

5/04 5/043	<ul> <li>with beams {or slabs} of concrete or other stone-like material, e.g. asbestos cement (<u>E04B 5/08</u>, <u>E04B 5/14</u> take precedence)</li> <li>{having elongated hollow cores}</li> </ul>	5/38	• • • • with slab-shaped form units acting simultaneously as reinforcement; Form slabs with reinforcements extending laterally outside the element {(beams placed against
5/046	{with beams placed with distance from another}		one another and acting as permanent forms E04B 5/23)}
5/06	• • • {with beams} placed against one another	5/40	with metal form-slabs
5/08	<ul> <li>{optionally with pointing-mortar}</li> <li>assembled of block-shaped elements, e.g. hollow stones (E04B 5/14 takes precedence; floors composed of reinforced brickwork E04B 5/44)</li> </ul>		• Floor structures of extraordinary design; Features relating to the elastic stability; Floor structures specially designed for resting on columns only, e.g. mushroom floors ({anchoring devices for belowing with more for responsible and bridging stability.
5/10 5/12	<ul> <li>with metal beams or girders, e.g. with steel lattice girders (E04B 5/14 takes precedence)</li> <li>with wooden beams (E04B 5/14 takes</li> </ul>	2	balconies with means for preventing cold bridging E04B 1/0038}; extraordinary constructions in general E04B 1/34)
	precedence)	5/44	• Floors composed of stones, mortar, and reinforcing elements (with inserts of glass <u>E04B 5/46</u> )
5/14	<ul> <li>with beams or girders laid in two directions</li> </ul>	5/46	
5/16	<ul> <li>Load-carrying floor structures wholly or partly cast or similarly formed in situ (E04B 5/43 - E04B 5/48 take precedence; floors merely characterised by the prefabricated elements E04C)</li> </ul>		<ul> <li>Special adaptation of floors for transmission of light, e.g. by inserts of glass (of ceilings <u>E04B 9/32</u>, block-shaped elements <u>E04C 1/42</u>; slab- or sheet- shaped elements <u>E04C 2/54</u>; for roof covering E04D 3/06)</li> </ul>
5/17	Floor structures partly formed <u>in situ</u>	5/40	<del></del>
2005/173	• • • { with permanent forms for the floor edges }	5/48	• Special adaptations of floors for incorporating ducts,
2005/176	• • { with peripheral anchors or supports}		e.g. for heating or ventilating (in block-shaped
5/18	• • • with stiffening ribs or other beam-like		elements E04C 1/39; in slab- or sheet-shaped
3/10	formations wholly cast between filling		elements <u>E04C 2/52</u> )
	members	7/00	Roofs; Roof construction with regard to insulation
5/10			(structures for roofs as well as for floors <u>E04B 5/00</u> ;
5/19	• • • • the filling members acting as self-supporting	3	ceilings <u>E04B 9/00</u> ; greenhouses <u>A01G 9/14</u> ; large
	permanent forms ( <u>E04B 5/21</u> takes		
	precedence)		containers having floating covers <u>B65D 88/34</u> ; roof
5/21	Cross-ribbed floors		trusses, truss-like structures, joists <u>E04C 3/02</u> ; roof
5/23	• • • with stiffening ribs or other beam-like		coverings <u>E04D</u> )
	formations wholly or partly prefabricated (with all load-carrying parts substantially consisting		with plane sloping surfaces, e.g. saddle roofs (E04B 7/12 takes precedence)
	of prefabricated units <u>E04B 5/02</u> {; beams built-up by elements joined in line <u>E04C 3/22</u> }		<ul> <li>{consisting of a plurality of parallel similar trusses or portal frames}</li> </ul>
2005/232	• • • { with special provisions for connecting wooden stiffening ribs or other wooden beam-like formations to the concrete slab}	7/024	<ul> <li>• { the trusses or frames supporting load-bearing purlins, e.g. braced purlins (battens, supports for battens E04D 12/00)}</li> </ul>
2005/235	• • • • • {Wooden stiffening ribs or other wooden beam-like formations having a special	7/026	• • {consisting of prefabricated modules, e.g. box-like or cell-like units ( <u>E04B 7/24</u> takes
	form}	<b>-</b> 10.00	precedence)}
2005/237	{Separate connecting elements}	7/028	• • {consisting of structures of pyramidal or conical
5/26	with filling members between the beams		shape}
	(E04B 5/28 takes precedence)	7/04	supported by horizontal beams or the equivalent
5/261	• • • • {Monolithic filling members}		resting on the walls ( <u>E04B 7/06</u> takes precedence)
5/263	• • • • • { with a flat lower surface ( <u>E04B 5/265</u> takes precedence)}	7/045	• • • { with connectors made of sheet metal for connecting the roof structure to the supporting
5/265	• • • • • {with one or more hollow cores}		wall (connectors made of sheet metal for
5/266	• • • • {Filling members covering the		wooden elongated load-supporting elements in
	undersurface of the beams}		general <u>E04B 1/2608</u> )}
5/268	{End filling members to be placed	7/06	Constructions of roof intersections or hipped ends
3/200	between the floor and the wall, e.g.	7/063	• • {Hipped ends}
	thermal breaks}	2007/066	• • • • {for conservatories}
5/28	Cross-ribbed floors	7/08	• Vaulted roofs (E04B 7/14 takes precedence; vaulted
5/29		7700	structures in general <u>E04B 1/32</u> ; inflatable tents or
3/29	<ul> <li>the prefabricated parts of the beams consisting wholly of metal (<u>E04B 5/28</u> takes precedence)</li> </ul>		canopies, in general E04H 15/20; inflatable forms for shaping in situ E04G 11/04)
5/32	Floor structures wholly cast <u>in situ</u> with or without form units or reinforcements	7/10	• • Shell structures, e.g. of hyperbolic-parabolic shape; Grid-like formations acting as shell
2005/322	• • • {with permanent forms for the floor edges}		structures; Folded structures {(buildings
2005/324	• • { with permanent forms for the froot edges} • • • { with peripheral anchors or supports }		E04B 1/32)}
		7/102	• • {Shell structures}
5/326	• • { with hollow filling elements }	7/105	{Grid-like structures}
5/328	• • • • {the filling elements being spherical}	7/107	{Folded structures}
5/36	with form units as part of the floor	//10/	· · · (Police structures)

7/12	• formed in bays, e.g. sawtooth roofs (E04B 7/10	9/061	• • {supporting construction for curved ceilings}
7/14	takes precedence)  Suspended roofs (suspended tents or canopies in	2009/062	• • {Caps covering visible surfaces of the supporting construction}
	general <u>E04H 15/04</u> )	9/064	• • {comprising extruded supporting beams}
7/16	<ul> <li>Roof structures with movable roof parts (buildings for special purposes <u>E04H</u>)</li> </ul>	9/065	<ul> <li>{comprising supporting beams having a folded cross-section}</li> </ul>
7/163	• • {characterised by a pivoting movement of	9/067	• • { with inverted T-shaped cross-section }
	the movable roof parts (E04B 7/166 takes	9/068	• • • { with double web}
	precedence)}	9/08	<ul> <li>having the capability of expansion {, e.g. in case</li> </ul>
7/166	{characterised by a translation movement of the	27.00	of fire}
	movable roof part, with or without additional	9/10	Connections between parallel members of
	movements}	27-2	the supporting construction (E04B 9/08 takes
7/18	<ul> <li>Special structures in or on roofs, e.g. dormer</li> </ul>		precedence)
	windows (in connection with roof coverings	9/12	Connections between non-parallel members of
	<u>E04D 13/00</u> , especially domes <u>E04D 13/03</u> )		the supporting construction (E04B 9/08 takes
7/20	• Roofs consisting of self-supporting slabs, e.g. able		precedence)
	to be loaded	9/122	• • • {one member passing through the other
7/205	• • {the slabs having non-structural supports for		member, both members laying at least partly in
	roofing materials (for slaps having insulating		the same plane}
_,	properties <u>E04B 7/225</u> )}	9/125	• • • {both members being continuous members}
7/22	• • the slabs having insulating properties, e.g.	9/127	• • • {one member being discontinuous and abutting
5/00 <i>5</i>	laminated with layers of insulating material		against the other member}
7/225	• • • {the slabs having non-structural supports for	9/14	all the members being discontinuous and laying
7/24	roofing materials}		at least partly in the same plane
7/24	• the slabs being collapsible {or retractable}, e.g.	9/16	• • • the members lying in different planes
	for transport	9/18	<ul> <li>Means for suspending the supporting construction</li> </ul>
9/00	Ceilings; Construction of ceilings, e.g. false	9/183	• • {having a lower side adapted to be connected to a
	ceilings; Ceiling construction with regard to		channel of the supporting construction}
	insulation (ceilings used as forms for making	2009/186	• • {with arrangements for damping vibration}
	floors E04B 5/00; coverings or linings for ceilings	9/20	adjustable
	<u>E04F 13/00</u> )	9/205	• • • {by means of a resilient clip}
9/001	• {characterised by provisions for heat or sound	9/22	. Connection of slabs, {panels,} sheets or the like to
	insulation}		the supporting construction
9/003	<ul> <li>{with movable parts, e.g. pivoting panels, access doors}</li> </ul>	9/225	• • { with the slabs, panels, sheets or the like hanging at a distance below the supporting construction }
9/005	• {composed of imitation beams or beam coverings}	9/24	• with the slabs, {panels,} sheets or the like
9/006	• {with means for hanging lighting fixtures or other		positioned on {the upperside of}, or held against
	appliances to the framework of the ceiling}		{the underside of the} horizontal flanges of the
9/008	• {with means for connecting partition walls or panels		supporting construction {or accessory means
	to the ceilings}	0/0/11	connected thereto}
9/02	<ul> <li>having means for ventilation or vapour discharge</li> </ul>	9/241	• • • {with the slabs, panels, sheets or the like
9/023	• • {comprising drainage gutters for condensed water		positioned on the upperside of the horizontal flanges of the supporting construction}
	or grease}	0/242	• • • { with separate retaining elements }
2009/026	• • {the supporting ceiling grid acting as air	9/242	{with separate retaining elements} {comprising sealing means between the
0.40.4	diffusers}	9/244	supporting construction and the slabs, panels,
9/04	comprising slabs, {panels,} sheets or the like		sheets or the like}
9/0407	• {being stiff and curved}	9/245	• • • {by means of screws, bolts or clamping strips
9/0414	• • {being foldable, curvable or rollable}	7/243	held against the underside of the supporting
9/0421	• • {comprising ducts}		construction (E04B 9/26 takes precedence)}
9/0428	• • {having a closed frame around the periphery}	9/247	{by means of sliding or pivoting locking
9/0435	• • {having connection means at the edges}		elements, held against the underside of the
9/0442	• • {having a honeycomb core}		supporting construction}
9/045	• • {being laminated}	9/248	• • • {by means of permanent magnetic force
9/0457	• • {having closed internal cavities}		held against the underside of the supporting
9/0464	<ul> <li>{having irregularities on the faces, e.g. holes, grooves}</li> </ul>	9/26	<ul><li>construction}</li><li>by means of snap action of elastically</li></ul>
9/0471	• • {having a trapezoidal cross section}	7,20	deformable elements {held against the
9/0478	• • {of the tray type}		underside of the supporting construction}
9/0485	• • {containing a filling element}	9/28	• with the slabs, {panels,} sheets or the like having
2009/0492	• • {with fabrics tensioned on frames}	2,20	grooves engaging with horizontal flanges of
9/06	<ul> <li>characterised by constructional features of the</li> </ul>		the supporting construction or accessory means
	supporting construction {, e.g. cross section or		connected thereto
	material of framework members}		

# E04B

9/30	<ul> <li>characterised by edge details of the ceiling; e.g.</li> </ul>
	securing to an adjacent wall
9/303	• • {for flexible tensioned membranes}
9/306	• • • {Tensioning hand tools therefor}
9/32	. Translucent ceilings, i.e. permitting both the
	transmission and diffusion of light ({E04B 9/303
	and} E04B 9/34 takes precedence; lighting F21)
9/34	• {Grid-like or} open-work ceilings, e.g. lattice type
	{box-like modules, acoustic baffles} (E04B 9/30
	takes precedence)
9/345	• • {consisting of non-parallel slats, e.g. grids}
9/36	consisting of parallel slats
9/363	• • • {the principal plane of the slats being
	horizontal}
9/366	• • • {the principal plane of the slats being vertical}

# INDEXING SCHEME ASSOCIATED WITH E04B 1/00 - E04B 9/00, RELATING TO MATERIAL CONSTITUTION OF SLABS, SHEETS OR THE LIKE

2103/00	Material constitution of slabs, sheets or the like
2103/02	• of ceramics, concrete or other stone-like material
2103/04	of plastics, fibrous material or wood
2103/06	• of metal