

CPC COOPERATIVE PATENT CLASSIFICATION

E04H BUILDINGS OR LIKE STRUCTURES FOR PARTICULAR PURPOSES; SWIMMING OR SPLASH BATHS OR POOLS; MASTS; FENCING; TENTS OR CANOPIES, IN GENERAL ([foundations E02D](#))

NOTES

1. This subclass deals primarily with the layout of buildings as a whole, but includes details which are peculiar to types of buildings or buildings for special purposes, specified in the groups. The word "buildings" does not exclude engineering structures and other constructions
2. This subclass provides for canopies in general and for canopies similar in construction to tents. For canopies having special application, see the relevant class, e.g. bed canopies [A47C 29/00](#); protecting chairs against the weather [A47C 7/66](#); sunshades or awnings for buildings [E04F 10/00](#)
3. In this subclass, the term "tent" means a tent or canopy having a supporting means, e.g. frame and a flexible cover

WARNING

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

E04H 4/02	covered by	E04H 4/0018 , E04H 4/0075
E04H 4/04	covered by	E04H 4/0018 , E04H 4/0075

1/00	Buildings or groups of buildings for dwelling or office purposes; General lay-out, e.g. modular co-ordination, staggered storeys {small buildings} (E04H 3/00 takes precedence; buildings for two or more purposes, e.g. drive-in buildings E04H 14/00; building construction in general E04B 1/00)	2001/1288	. . {Sauna cabins}
		2001/1294	. . {Booths for smoking}
		1/14	. . Telephone cabinets
		3/00	Buildings or groups of buildings for public or similar purposes; Institutions, e.g. infirmaries, prisons (portions of buildings for individual occupation, e.g. cubicles E04H 1/00; structures covering a large free area E04B 1/342)
1/005	. {Modulation co-ordination}		
1/02	. Dwelling houses; Buildings for temporary habitation, {e.g. summer houses} (small erections for limited occupation E04H 1/12 {collapsible, erectable or rotatable buildings E04B 1/343 })	3/02	. Hotels; Motels; Coffee houses; Restaurants; Shops; Department stores {(furnishing or fitting A47F)}
1/04	. . Apartment houses arranged in two or more levels	3/04	. . Restaurants or shops having arrangements for self-service (paying counters A47F 9/02 ; furniture or installations specially adapted for supermarkets A47F 10/00 ; transport aspects B65G ; coin-freeed apparatus G07F)
1/06	. Office buildings; Banks (E04H 1/12 takes precedence; furniture or fittings for shops, storehouses or the like A47F)		
1/12	. Small buildings or other erections for limited occupation, erected in the open air or arranged in buildings, e.g. kiosks, waiting shelters for bus stops or for filling stations, roofs for railway platforms, watchmen's huts, dressing cubicles (movable screens as household equipment A47G 5/00)	3/06	. Museums; Library buildings
		3/08	. Hospitals, infirmaries, or the like; Schools; Prisons
		3/10	. for meetings, entertainments, or sports
		3/12	. . Tribunes, grandstands or terraces for spectators {or amphitheatres} (auditoriums E04H 3/30 ; chairs, stools, benches A47C)
1/1205	. . {Small buildings erected in the open air (E04H 1/1272 takes precedence)}	3/123	. . . {Telescopic grandstands}
1/1211	. . . {Waiting shelters for bus stops}	3/126	. . . {Foldable, retractable or tiltable tribunes (E04H 3/123 takes precedence)}
1/1216	. . . {Public W.C.s}		
1/1222	. . . {Sales kiosks}	3/14	. . Gymnasiums; Other sporting buildings (tribunes E04H 3/12)
1/1227	. . . {Traffic control kiosks}		
1/1233	. . . {Shelters for filling stations}	2003/142	. . . {with vertically movable or tiltable playing field or sections}
1/1238	. . . {Shelters for engines, e.g. electrical meter housings}	2003/145	. . . {with reconfigurable seating arrangement}
1/1244	. . . {Dressing or beach cabins}	2003/147	. . . . {using horizontally movable sections of tribunes}
1/125	. . {Small buildings, arranged in other buildings (E04H 1/1272 takes precedence)}	3/16	. . . for swimming (swimming or splash baths or pools E04H 4/00)
1/1255	. . . {Voting booths}	3/165	. . . . {having movable parts}
1/1261	. . . {Cubicles for fire-protection}	3/22	. . Theatres; Concert halls; Studios for broadcasting, cinematography, television or similar purposes (drive-in buildings E04H 14/00 ; equipment for theatres or concert halls A63J ; {vehicles specially adapted to carry a theatre or stage B60P 3/025 })
1/1266	. . . {Cubicles for dressing; Toilets}		
1/1272	. . {Exhibition stands}		
1/1277	. . {Shelters for decontamination}		
2001/1283	. . {Small buildings of the ISO containers type}		

3/24	. . . Constructional features of stages	4/1245	. . . {Recirculating pumps for swimming pool water}
3/26	. . . . Revolving stages; Stages able to be lowered (devices for raising or lowering persons A63J 5/12)	4/1254	. . . {Arm-mounted debris traps or flow diverters}
3/28	. . . . Shiftable or portable platforms	4/1263	. . . {Floating skimmers}
3/30	. . . Constructional features of auditoriums (chairs, stools, benches A47C ; building details providing acoustical effects E04B 1/99)	4/1272	. . . {Skimmers integrated in the pool wall}
4/00	Swimming or splash baths or pools (wave-producers for baths A47K 3/10 ; separation B01D ; treatment of water C02F ; wave-producing pumps F04D 35/00)	4/1281	. . {Devices for distributing chemical products in the water of swimming pools}
4/0006	. {Devices for producing waves in swimming pools (generating current of water in swimming pools A63B 69/125)}	4/129	. . {Systems for heating the water content of swimming pools (solar collectors using pools F24J 2/0472 , F24J 2/0461 ; by solar radiation F24J 2/423)}
4/0012	. {Floating swimming pools}	4/14	. Parts, details or accessories not otherwise provided for
4/0018	. {Easily movable or transportable swimming pools}	4/141	. . {Coping elements for swimming pools}
4/0025	. . {with inflatable parts}	4/142	. . . {with fixing means for sealing foil}
4/0031	. . {with shell type elements}	4/143	. . {Swimming lane markers with or without wave suppressors}
4/0037	. . . {Mono-shell type}	4/144	. . {Means for facilitating access, e.g. step units or slides (invalid-lifting devices for swimming pools A61G 7/1005)}
4/0043	. . {mainly made of panels (E04H 4/0031 takes precedence)}	4/145	. . {Dividing means for swimming pools, e.g. panels, bulkheads}
4/005	. . . {characterised by the framework for supporting the panels}	2004/146	. . {Fixing of liners}
4/0056	. . {with a framework combined with a water retaining bag}	2004/147	. . . {the liner edge being held in a slot}
4/0062	. . {characterised by stacked planks or staves}	4/148	. . {Lighting means}
2004/0068	. . {made of plastic shells or plastic elements including at least parts of walls and floors}	4/16	. . specially adapted for cleaning (cleaning devices peculiar to vessels B63B 59/00)
4/0075	. {made of concrete (E04H 4/0012 takes precedence)}	4/1609	. . . {Hand-held strainers, non-powered brushes or scrubbers}
4/0081	. . {with walls and floor cast <u>in situ</u> }	4/1618	. . . {Hand-held powered cleaners}
4/0087	. . {with walls prefabricated and floor cast <u>in situ</u> }	4/1627	. . . . {Powered gutter cleaners}
4/0093	. . {with walls and floor prefabricated}	4/1636	. . . . {Suction cleaners}
4/06	. Safety devices; Coverings for baths	4/1645	. . . . . {Connections to the pool water circulation system}
4/065	. . {Floors adjustable in height}	4/1654	. . . . {Self-propelled cleaners}
4/08	. . Coverings consisting of rigid elements, {e.g. coverings composed of separate or connected elements}	4/1663	. . . . . {the propulsion resulting from an intermittent interruption of the waterflow through the cleaner}
4/082	. . . {composed of flexibly or hingedly-connected slat-like elements, which may or may not be wound-up on a fixed axis (E04H 4/088 takes precedence)}	4/1672	. . . . . {Connections to the pool water circulation system}
4/084	. . . {with lifting mechanism}	4/1681	. . . {Cleaning whips}
4/086	. . . {Sliding covers (E04H 4/084 and E04H 4/088 take precedence)}	4/169	. . . {Pool nozzles}
4/088	. . . {Covers made in concertina folds}	5/00	Buildings or groups of buildings for industrial or agricultural purposes (building construction in general E04B 1/00)
4/10	. . Coverings of flexible material	2005/005	. {Buildings for data processing centers}
4/101	. . . {wound-up on a fixed axis}	5/02	. Buildings or groups of buildings for industrial purposes, e.g. for power-plants, factories (buildings forming part of cooling plants E04H 5/10 ; building structures for parking vehicles E04H 6/00)
4/103	. . . {with inflatable chambers}	5/04	. . Transformer houses; Substations or switchgear houses
4/105	. . . {supported by air pressure under the cover}	5/06	. . Pits or building structures for inspection or services (manhole shafts or other inspection chambers in general E02D 29/12)
4/106	. . . {supported by separate buoyant bodies}	5/08	. Buildings or groups of buildings for agricultural purposes (silos E04H 7/22 ; manure storage places A01C 3/02 ; greenhouses A01G 9/14)
4/108	. . . {supported by frames}	5/10	. Buildings forming part of cooling plants
4/12	. Devices or arrangements for circulating water, {i.e. devices for removal of polluted water, cleaning baths or for water treatment}	5/12	. . Cooling towers (towers in general E04H 12/00 ; cooling equipment F28)
4/1209	. . {Treatment of water for swimming pools (filters B01D)}		
4/1218	. . . {Devices for removal of polluted water; Circumferential gutters}		
4/1227	. . . . {Circumferential gutters}		
4/1236	. . . {Bottom drains}		

6/00	Buildings for parking cars, rolling stock, aircraft, vessels or like vehicles, e.g. garages (tents for use as garages E04H 15/00; bicycle stands B62H; storing of vessels on land B63C 15/00; construction of ground-supported surfaces E01C; marking of parking areas on the ground E01F 9/50; building construction in general E04B 1/00)	6/26	. . . . characterised by the use of tiltable floors or floor sections; characterised by the use of movable ramps
6/005	. {Garages for vehicles on two wheels}	6/28	. . . . characterised by the use of turntables or rotary rings for horizontal transport { E04H 6/20 takes precedence}
6/02	. Small garages, e.g. for one or two cars (attached to, or supported by, the vehicle B62D ; prefabricated and with undivided interior E04B 1/343)	6/282	. . . . . {turntables, rotary elevators or the like on which the cars are not permanently parked}
6/025	. . {in the form of an overhead canopy, e.g. carports}	6/285	. . . . . {using car-gripping transfer means}
6/04	. . wheeled, hinged, foldable, telescopic, swinging or otherwise movable ({ E04H 6/025 takes precedence}; transportable or collapsible buildings in general E04B 1/343)	6/287	. . . . . {using comb-type transfer means}
6/06	. . with means for shifting or lifting vehicles	6/30	. . . with means for transport in horizontal direction only
6/065	. . . {using tiltable floors or ramps (in garages for many vehicles E04H 6/26)}	6/302	. . . . {the cars rolling freely from the transfer means}
6/08	. Garages for many vehicles	6/305	. . . . {using car-gripping transfer means}
6/10	. . without mechanical means for shifting or lifting vehicles, e.g. with helically-arranged fixed ramps, with movable ramps ({ E04H 6/26 takes precedence})	6/307	. . . . {using comb-type transfer means}
6/12	. . with mechanical means for shifting or lifting vehicles	6/32	. . . . characterised by use of conveyor chains or rotatable rollers
6/14	. . . with endless conveyor chains having load-carrying parts moving vertically, e.g. paternoster lifts {also similar transport in which cells are continuously mechanically linked together}	6/34	. . . . characterised by use of movable platforms { E04H 6/32 takes precedence}
6/16	. . . Garages shaped as a wheel or drum rotatable about a horizontal axis	6/36	. . . . characterised by use of freely-movable dollies
6/18	. . . with means for transport in vertical direction only or independently in vertical and horizontal directions (E04H 6/14 takes precedence)	6/38	. . . . characterised by use of tiltable floors or floor sections
6/181	. . . . {the cars rolling freely from the transfer means (E04H 6/282 takes precedence)}	6/40	. . . . characterised by use of turntables or rotary rings ({ E04H 6/32 - E04H 6/38 take precedence})
6/182	. . . . {using car-gripping transfer means (E04H 6/285 takes precedence)}	6/42	. Devices or arrangements peculiar to garages, not covered elsewhere, e.g. securing devices, safety devices, {monitoring and operating schemes; centering devices}
6/183	. . . . . {without transverse movement of the car after leaving the transfer means}	6/422	. . {Automatically operated car-parks}
6/185	. . . . {using comb-type transfer means (E04H 6/287 takes precedence)}	6/424	. . . {Positioning devices}
6/186	. . . . . {without transverse movement of the car after leaving the transfer means}	6/426	. . {Parking guides}
6/187	. . . . {using vertical parking loops}	6/428	. . {Devices for collecting oil or other fluids under parked cars (servicing, maintaining, repairing or refitting of vehicles B60S 5/00)}
6/188	. . . . {using only vertical transport means}	6/44	. for storing aircraft (structures covering a large free area E04B 1/342)
6/20	. . . . characterised by the use of conveyor chains or rotatable rollers for horizontal transport	7/00	Construction or assembling of bulk storage containers employing civil engineering techniques in situ or off the site (tower aspects E04H 12/00; storage aspects, e.g. floating roofs, sealing means, filling or discharging means B65D, B65G, F17B, F17C; foundations E02D 27/38)
6/22	. . . . characterised by the use of movable platforms for horizontal transport, {i.e. cars being permanently parked on pallets (E04H 6/20 takes precedence)}	7/02	. Containers for fluids or gases; Supports therefor (arrangements or adaptations of tanks for water supply E03B 11/00)
6/225	. . . . . {without transverse movement of the parking palette after leaving the transfer means}	7/04	. . mainly of metal
6/24	. . . . characterised by the use of dollies for horizontal transport, {i.e. cars being permanently parked on wheeled platforms (E04H 6/20 takes precedence)}	7/06	. . . with vertical axis
6/245	. . . . . {without transverse movement of the wheeled parking platform after leaving the transfer means}	7/065	. . . . {roof constructions}
		7/14	. . . ball-shaped
		7/16	. . . with horizontal axis
		7/18	. . mainly of concrete, e.g. reinforced concrete, or other stone-like material
		7/20	. . . Prestressed constructions
		7/22	. Containers for fluent solids, e.g. silos, bunkers; Supports therefor
		2007/225	. . {Silos with retaining wall type wall elements, e.g. trench silos}
		7/24	. . Constructions, with or without perforated walls, depending on the use of specified materials

7/26	. . . mainly of concrete, e.g. reinforced concrete or other stone-like materials	2012/006	. {Structures with truss-like sections combined with tubular-like sections}
7/28	. . . . composed of special building elements	12/02	. Structures made of specified materials (E04H 12/16 , E04H 12/18 take precedence)
7/30	. . . mainly of metal	12/04	. . of wood
7/32	. . . mainly of wood	12/06	. . . Truss-like structures
9/00	Buildings, or groups of buildings, or shelters adapted to withstand or provide protection against abnormal external influences, e.g. war-like action, earthquake, extreme climate (floatable buildings B63B ; foundation aspects E02D ; building constructions in general E04B ; bearings or like supports allowing movement E04B 1/36 ; special details in regard to insulation or other protection E04B 1/62 ; supporting structures for endangered or damaged existing buildings or parts thereof E04G 23/04 ; doors, windows E06B 5/00 ; air-conditioning, ventilation F24F ; camouflage F41H 3/00 ; cells or rooms shielded against dangerous radiation G21F 7/00)	12/08	. . of metal
9/02	. withstanding earthquake or sinking of ground (foundations E02D 27/34 ; {making use of active or passive dynamic mass damping systems E04B 1/985 })	12/085	. . . {Details of flanges for tubular masts}
9/021	. . {Bearing, supporting or connecting constructions specially adapted for such buildings}	12/10	. . . Truss-like structures
9/022	. . . {and comprising laminated structures of alternating elastomeric and rigid layers}	12/12	. . of concrete or other stone-like material, with or without internal or external reinforcements, e.g. with metal coverings, with permanent form elements
9/023	. . . {and comprising rolling elements, e.g. balls, pins}	12/14	. . . Truss-like structures
9/024	. . {Structures with steel columns and beams}	12/16	. Pre-stressed structures
9/025	. . {Structures with concrete columns}	12/18	. movable or with movable sections, e.g. rotatable, telescopic ({flexible slalom gate poles A63C 19/062 ; flexible road sign supports E01F 9/627 }; rotary buildings E04B 1/346)
2009/026	. . {Anti-seismic devices with hydraulic or pneumatic damping}	12/182	. . {telescopic (locking of telescopic systems in general F16B 7/10)}
9/027	. . {Preventive constructional measures against earthquake damage in existing buildings}	12/185	. . {with identical elements}
9/028	. . {Earthquake withstanding shelters}	12/187	. . {with hinged sections}
9/029	. . . {arranged inside of buildings (E04H 9/06 takes precedence)}	12/20	. Side supporting means therefor, e.g. using guy ropes, struts (ground anchors E02D 5/80 ; fastening means for cables or ropes F16G 11/00)
9/04	. against air-raid or other warlike actions (respiratory apparatus A62B)	12/22	. Sockets or holders for poles or posts ({for sports articles, e.g. floor sockets A63B 71/023 ; for road signs E01F 9/673 ; foundations for poles, masts or chimneys E02D 27/42)}
9/06	. . Structures arranged in or forming part of buildings	12/2207	. . {not used}
9/08	. . . Structures arranged underneath buildings, e.g. air-raid shelters	12/2215	. . . {driven into the ground (ground anchors E02D 5/80)}
9/10	. . Independent shelters; Arrangement of independent splinter-proof walls	12/2223	. . . . {by screwing}
9/12	. . . entirely underneath the level of the ground, e.g. air-raid galleries (tunnels, mine galleries E21D)	12/223	. . . . {with movable anchoring elements; with separately driven anchor rods}
9/14	. against other dangerous influences, e.g. tornadoes, floods	12/2238	. . {to be placed on the ground (christmas tree stands A47G 33/12)}
9/145	. . {Floods (protecting building openings E06B 9/00)}	12/2246	. . . {filled with water, sand or the like}
9/16	. against adverse conditions, e.g. extreme climate, pests	12/2253	. . {Mounting poles or posts to the holder (E04H 12/2284 takes precedence; break-away mountings E01F 9/631)}
12/00	Towers; Masts or poles; Chimney stacks; Water-towers; Methods of erecting such structures (cooling-towers E04H 5/12 ; supports for road signs E01F 9/60 ; foundation piles E02D 5/22 ; foundations for masts, poles or chimneys E02D 27/42 ; structural elongated members in general E04C 3/00 ; fixed climbing irons E06C 9/04 ; derricks for oil drilling E21B 15/00)	12/2261	. . . {on a flat base (E04H 12/08 , E04H 12/10 take precedence)}
12/003	. {Access covers or locks therefor}	12/2269	. . . {in a socket}
		12/2276	. . . {Clamping poles or posts on a stub (E04H 12/2269 takes precedence)}
		12/2284	. . {Means for adjusting the orientation of the post or pole}
		12/2292	. . {Holders used for protection, repair or reinforcement of the post or pole (E04H 12/2276 takes precedence)}
		12/24	. Cross arms
		12/26	. Winding-towers for mines (elevators B66B)
		12/28	. Chimney stacks, e.g. free-standing, or similar ducts (foundations E02D 27/42 ; chimneys as part of buildings E04F 17/02 ; connections between furnace and smoke-stack, chimney equipment F23)
		12/30	. Water-towers (tanks B65D 88/00 ; use of high-level tanks E03B 11/12)
		12/32	. Flagpoles (flags, banners, mountings therefor G09F 17/00)
		12/34	. Arrangements for erecting or lowering towers, masts, poles, chimney stacks, or the like

12/341	. . {Arrangements for casting <u>in situ</u> concrete towers or the like}	2015/202	. . {with inflatable panels, without inflatable tubular framework}
12/342	. . {Arrangements for stacking tower sections on top of each other (E04H 12/344 takes precedence)}	2015/203	. . . {supported by a non-inflatable structure or framework}
12/344	. . {Arrangements for lifting tower sections for placing additional sections under them}	2015/204	. . . {made from contiguous inflatable tubes}
12/345	. . {Arrangements for tilting up whole structures or sections thereof (E04H 12/347 takes precedence)}	2015/205	. . . {made from two sheets with intermediate spacer means}
12/347	. . {Arrangements for setting poles in the ground}	2015/206	. . {Details of inflation devices, e.g. valves, connections to fluid pressure source}
12/348	. . {Arrangements for demolition towers or the like}	2015/207	. . {Tents specially designed for insulation}
13/00	Monuments; Tombs; Burial vaults; Columbaria, (coffins, urns A61G 17/00); sculpture or other artistic features B44)	2015/208	. . {with inflatable mattresses}
13/001	. {Accessories for grave sites, e.g. liners, covers, vault lowering devices (E04H 13/003 takes precedence)}	2015/209	. . {Structures with a netting or similar for anchorage}
13/003	. {Funeral monuments, grave sites curbing or markers not making part of vaults (E04H 13/008 takes precedence)}	15/22	. . supported by air pressure inside the tent
13/005	. {Ventilation systems therefor}	15/24	. cone shaped, e.g. teepees
13/006	. {Columbaria, mausoleum with frontal access to vaults}	15/26	. Centre-pole supported tents (umbrella-type E04H 15/28)
13/008	. {Memorials for cremation ashes (E04H 13/006 takes precedence)}	15/28	. Umbrella type tents
14/00	Buildings for combinations of different purposes not covered in a single previous group of this subclass, e.g. for double purpose (E04H 3/02, E04H 9/06 take precedence); Buildings of the drive-in type	15/30	. convertible, e.g. from one type to another type tent, from tent to canopy, from tent cover into diverse articles (sacks or packs convertible into tents A45F 4/04; coats or capes convertible into tent coverings A45F 4/14)
15/00	Tents or canopies, in general	15/32	. Parts, components, construction details, accessories, interior equipment, specially adapted for tents, e.g. guy-line equipment, skirts, thresholds
15/001	. {Hunting, fishing huts or the like}	15/322	. . {Stretching devices}
15/003	. {Bathing or beach cabins}	15/324	. . {Beds constituted by the tent supporting means (Beds per se , A47C)}
15/005	. . {Wind breakers, i.e. fabric stretched between posts anchored in the ground}	2015/326	. . {Frame members connected by elastic cord}
15/006	. {Tents used as toys}	2015/328	. . {Frames kept erected solely by guy lines}
15/008	. {Tents or tent-like constructions composed partially of rigid panels (E04H 15/06 takes precedence; trailer-type vehicles or caravans with foldable or readily disassembled living accommodation comprising flexible elements B60P 3/341)}	15/34	. . Supporting means, e.g. frames
15/02	. Tents combined or specially associated with other devices	15/36	. . . arch-shaped type (E04H 15/42 takes precedence; {arches connected with lazy-tongues E04H 15/505 })
15/04	. . suspended type, e.g. from trees, from cantilever supports (supporting frames E04H 15/34)	15/38	. . . . expansible, e.g. extensible {in a fan type manner}
15/06	. . Tents at least partially supported by vehicles	15/40	. . . . flexible
15/08	. . . Trailer awnings or the like	15/405	. . . . . {flexible and foldable}
15/10	. . Heating, lighting or ventilating (for heating, lighting or ventilating devices per se , see the relevant classes , e.g. F21 , F24)	15/42	. . . external type, e.g. frame outside cover
15/12	. . . Heating	15/425	. . . . {Flexible supporting means}
15/14	. . . Ventilating	15/44	. . . collapsible, e.g. breakdown type {having connecting nodes} (E04H 15/42 takes precedence; building structures having collapsible parts in general E04B 1/343)
15/16	. . . . of tent roofs	15/46	. . . . . telescoping and foldable
15/18	. Tents having plural sectional covers, e.g. pavilions, vaulted tents, marquees, circus tents (inflatable E04H 15/20); Plural tents, e.g. modular	15/48	. . . . . foldable, i.e. having pivoted or hinged means (E04H 15/405 and E04H 15/46 takes precedence)
15/20	. inflatable, e.g. shaped, strengthened, or supported by fluid pressure (connection of valves to inflatable elastic bodies B60C 29/00; inflatable forms for making walls or the like E04G 11/04)	15/50	. . . . . lazy-tong type
2015/201	. . {with inflatable tubular framework, with or without tent cover}	15/505	. . . . . {characterised by connecting arches with lazy-tongues}
		15/52	. . . . . parallelogram type
		15/54	. . Covers of tents or canopies (ventilated tent roofs E04H 15/16)
		15/56	. . Floors
		15/58	. . Closures; Awnings; Sunshades
		15/60	. . Poles
		15/62	. . Pegs, stakes or the like
		15/64	. . Tent or canopy cover fastenings
		15/642	. . . {with covers held by elongated fixing members locking in longitudinal recesses of a frame}
		15/644	. . . . {the fixing members being a beading}

15/646	. . . . {the fixing members being locked by an additional locking member}	2017/1482	. . . . {the rails being attached to the tops of the posts}
15/648	. . . . {the longitudinal recesses being made from two clamping members}	2017/1486	. . . . {the rails being positioned between the uprights of double posts}
17/00	Fencing, e.g. fences, enclosures, corrals (features peculiar to electrified fences A01K 3/00 , H05C ; means for allowing passage through fences, barriers, or the like E06B 11/00)	2017/1491	. . . . {Hinged connections between rails and posts}
17/003	. {Anti-climbing devices, e.g. fixed or rotary spikes}	2017/1495	. . {Fences with pivotable slats for reduced wind resistance or for adjusting visibility}
2017/006	. {Caps for posts}	17/16	. . using prefabricated panel-like elements, e.g. wired frames
17/02	. Wire fencing (E04H 17/14 takes precedence)	17/161	. . . . {using wired panels without frame}
17/04	. . using wire, barbed wire, wire mesh, toothed strips, or the like; Coupling means therefor (wire netting B21F 27/00 ; other metallic fabrics see the relevant classes; {turnbuckles F16G 11/12 })	17/163	. . . . {using wired panels with frame}
17/06	. . Parts for wire fences	17/165	. . . . {using panels with frame (E04H 17/163 takes precedence)}
17/063	. . . . {Fence liners; Vegetation prevention barriers}	17/166	. . . . . {with cross-members}
17/066	. . . . {Slats for chain link fences}	17/168	. . . . {using panels without frames and fitted in grooves of posts}
17/08	. . . . Anchoring means therefor, e.g. specially-shaped parts entering the ground; Struts or the like (for towers or masts E04H 12/20 ; sockets for posts E04H 12/22)	17/18	. . . . Corrals, i.e. easily transportable or demountable enclosures
	NOTE	17/20	. . Posts therefor
	Parts entering the ground are classified in E04H 12/22	17/22	. . . . Anchoring means therefor, e.g. specially-shaped parts entering the ground; Struts or the like (for towers or masts E04H 12/20 ; sockets for posts E04H 12/22)
17/10	. . characterised by the way of connecting wire to posts; Droppers		NOTE
17/12	. . . the wire being placed in slots, grooves, or the like		Parts entering the ground are classified in E04H 12/22
17/14	. Fences constructed of rigid elements, e.g. with posts, with additional wire fillings	17/24	. . Connections for attaching additional wire to frames, posts or railings
17/1404	. . {using building blocks}	17/26	. . Devices for erecting or removing fences {(hand-operated hammers having the impact head in form of a sleeve slidable on a shaft B25D 1/16)}
17/1408	. . {using woven slats}	17/261	. . {for post and wire handling}
17/1413	. . {Post-and-rail fences without vertical cross-members}	17/263	. . . . {for erecting posts (pile driving E02D 7/00)}
17/1417	. . {Post-and-rail fences with vertical cross-members}	17/265	. . . . {for removing posts}
17/1421	. . . . {Connections between rail and post}	17/266	. . . . {for stretching or winding wire or wire mesh}
17/1426	. . {Picket fences}	17/268	. . {Hand tools for wiring fences, e.g. tying or splicing tools (E04H 17/266 takes precedence)}
17/143	. . . {with separate pickets attached to the side of the horizontal members}		
17/1434	. . . . {Connections between horizontal members and post}		
17/1439	. . . {with separate pickets going through the horizontal members}		
17/1443	. . . . {Connections between horizontal members and post}		
2017/1447	. . {Details of connections between rails and posts}		
2017/1452	. . . . {the ends of the rails are fixed on the lateral sides of the posts}		
2017/1456	. . . . {the ends of the rails being located in vertical channels extending along a substantial portion of the length of the post}		
2017/146	. . . . {the rails being attached to the front faces of the posts}		
2017/1465	. . . . {the rails being supported within blind or through holes of the posts}		
2017/1469	. . . . {Snap connections}		
2017/1473	. . . . {using fixing devices encircling, partially or fully, the post}		
2017/1478	. . . . {the posts extending through apertures or cut-outs in the rails}		