

CPC COOPERATIVE PATENT CLASSIFICATION

E FIXED CONSTRUCTIONS

BUILDING

E04 BUILDING

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

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:

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

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	Buildings or groups of buildings for dwelling or office purposes; General layout, e.g. modular co-ordination or staggered storeys (E04H 3/00 takes precedence)	1/1266 . . . {Cubicles for dressing; Toilets}
1/005	. {Modulation co-ordination}	1/1272 . . {Exhibition stands}
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})	1/1277 . . {Shelters for decontamination}
1/04	. Apartment houses arranged in two or more levels	2001/1283 . . {Small buildings of the ISO containers type}
1/06	. Office buildings; Banks (E04H 1/12 takes precedence)	2001/1288 . . {Sauna cabins}
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 or dressing cubicles	2001/1294 . . {Booths for smoking}
1/1205	. . {Small buildings erected in the open air (E04H 1/1272 takes precedence)}	1/14 . . Telephone cabinets
1/1211	. . . {Waiting shelters for bus stops}	3/00 Buildings or groups of buildings for public or similar purposes; Institutions, e.g. infirmaries or prisons
1/1216	. . . {Public W.C.s}	3/02 . Hotels; Motels; Coffee-houses; Restaurants; Shops; Department stores
1/1222	. . . {Sales kiosks}	3/04 . . Restaurants or shops having arrangements for self-service
1/1227	. . . {Traffic control kiosks}	3/06 . Museums; Library buildings
1/1233	. . . {Shelters for filling stations}	3/08 . Hospitals, infirmaries, or the like; Schools; Prisons
1/1238	. . . {Shelters for engines, e.g. electrical meter housings}	3/10 . for meetings, entertainments, or sports
1/1244	. . . {Dressing or beach cabins}	3/12 . . Tribunes, grandstands or terraces for spectators
1/125	. . . {Small buildings, arranged in other buildings (E04H 1/1272 takes precedence)}	3/123 . . . {Telescopic grandstands}
1/1255	. . . {Voting booths}	3/126 . . . {Foldable, retractable or tiltable tribunes (E04H 3/123 takes precedence)}
1/1261	. . . {Cubicles for fire-protection}	3/14 . . Gymnasiums; Other sporting buildings
		2003/142 . . . {with vertically movable or tiltable playing field or sections}
		2003/145 . . . {with reconfigurable seating arrangement}
		2003/147 {using horizontally movable sections of tribunes}
		3/16 . . . for swimming
		3/165 {having movable parts}

3/22	. . Theatres; Concert halls; Studios for broadcasting, cinematography, television or similar purposes	4/1281	. . {Devices for distributing chemical products in the water of swimming pools}
3/24	. . . Constructional features of stages	4/129	. . {Systems for heating the water content of swimming pools (solar collectors using pools F24S 10/17, F24S 10/10; by solar radiation F24S 20/02)}
3/26	. . . . Revolving stages; Stages able to be lowered	4/14	. Parts, details or accessories not otherwise provided for
3/28	. . . . Shiftable or portable platforms	4/141	. . {Coping elements for swimming pools}
3/30	. . . Constructional features of auditoriums	4/142	. . . {with fixing means for sealing foil}
4/00	Swimming or splash baths or pools	4/143	. . {Swimming lane markers with or without wave suppressors}
4/0006	. {Devices for producing waves in swimming pools (generating current of water in swimming pools A63B 69/125)}	4/144	. . {Means for facilitating access, e.g. step units or slides (invalid-lifting devices for swimming pools A61G 7/1005)}
4/0012	. {Floating swimming pools}	4/145	. . {Dividing means for swimming pools, e.g. panels, bulkheads}
4/0018	. {Easily movable or transportable swimming pools}	2004/146	. . {Fixing of liners}
4/0025	. . {with inflatable parts}	2004/147	. . . {the liner edge being held in a slot}
4/0031	. . {with shell type elements}	4/148	. . {Lighting means}
4/0037	. . . {Mono-shell type}	4/16	. . specially adapted for cleaning
4/0043	. . {mainly made of panels (E04H 4/0031 takes precedence)}	4/1609	. . . {Hand-held strainers, non-powered brushes or scrubbers}
4/005	. . . {characterised by the framework for supporting the panels}	4/1618	. . . {Hand-held powered cleaners}
4/0056	. . {with a framework combined with a water retaining bag}	4/1627	. . . . {Powered gutter cleaners}
4/0062	. . {characterised by stacked planks or staves}	4/1636	. . . . {Suction cleaners}
2004/0068	. . {made of plastic shells or plastic elements including at least parts of walls and floors}	4/1645	. . . . . {Connections to the pool water circulation system}
4/0075	. {made of concrete (E04H 4/012 takes precedence)}	4/1654	. . . . {Self-propelled cleaners}
4/0081	. . {with walls and floor cast in situ }	4/1663	. . . . . {the propulsion resulting from an intermittent interruption of the waterflow through the cleaner}
4/0087	. . {with walls prefabricated and floor cast in situ }	4/1672	. . . . . {Connections to the pool water circulation system}
4/0093	. . {with walls and floor prefabricated}	4/1681	. . . . {Cleaning whips}
4/06	. Safety devices; Coverings for baths	4/169	. . . . {Pool nozzles}
4/065	. . {Floors adjustable in height}	5/00	Buildings or groups of buildings for industrial or agricultural purposes
4/08	. . Coverings consisting of rigid elements {, e.g. coverings composed of separate or connected elements}	2005/005	. {Buildings for data processing centers}
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)}	5/02	. Buildings or groups of buildings for industrial purposes, e.g. for power-plants or factories (buildings forming part of cooling plants E04H 5/10)
4/084	. . . {with lifting mechanism}	5/04	. . Transformer houses; Substations or switchgear houses
4/086	. . . {Sliding covers (E04H 4/084 and E04H 4/088 take precedence)}	5/06	. . Pits or building structures for inspection or services
4/088	. . . {Covers made in concertina folds}	5/08	. . Buildings or groups of buildings for agricultural purposes (silos E04H 7/22)
4/10	. . Coverings of flexible material	5/10	. . Buildings forming part of cooling plants
4/101	. . . {wound-up on a fixed axis}	5/12	. . Cooling towers
4/103	. . . {with inflatable chambers}	6/00	Buildings for parking cars, rolling-stock, aircraft, vessels or like vehicles, e.g. garages
4/105	. . . {supported by air pressure under the cover}	6/005	. {Garages for vehicles on two wheels}
4/106	. . . {supported by separate buoyant bodies}	6/02	. Small garages, e.g. for one or two cars (attached to, or supported by, the vehicle B62D)
4/108	. . . {supported by frames}	6/025	. . {in the form of an overhead canopy, e.g. carports}
4/12	. Devices or arrangements for circulating water {, i.e. devices for removal of polluted water, cleaning baths or for water treatment}	6/04	. . wheeled, hinged, foldable, telescopic, swinging or otherwise movable
4/1209	. . {Treatment of water for swimming pools (filters B01D)}	6/06	. . with means for shifting or lifting vehicles
4/1218	. . . {Devices for removal of polluted water; Circumferential gutters}	6/065	. . . . {using tiltable floors or ramps (in garages for many vehicles E04H 6/26)}
4/1227	. . . . {Circumferential gutters}		
4/1236	. . . {Bottom drains}		
4/1245	. . . {Recirculating pumps for swimming pool water}		
4/1254	. . . {Arm-mounted debris traps or flow diverters}		
4/1263	. . . {Floating skimmers}		
4/1272	. . . {Skimmers integrated in the pool wall}		

9/028	. . . {Earthquake withstanding shelters}	12/2276	. . . {Clamping poles or posts on a stub (E04H 12/2269 takes precedence)}
9/029	. . . {arranged inside of buildings (E04H 9/06 takes precedence)}	12/2284	. . . {Means for adjusting the orientation of the post or pole}
9/04	. against air-raid or other war-like actions	12/2292	. . . {Holders used for protection, repair or reinforcement of the post or pole (E04H 12/2276 takes precedence)}
9/06	. . . Structures arranged in or forming part of buildings	12/24	. . . Cross arms
9/08	. . . Structures arranged underneath buildings, e.g. air-raid shelters	12/26	. . . Winding towers for mines
9/10	. . . Independent shelters; Arrangement of independent splinter-proof walls	12/28	. . . Chimney stacks, e.g. free-standing, or similar ducts (chimneys as part of buildings E04F 17/02)
9/12	. . . entirely underneath the level of the ground, e.g. air-raid galleries	12/30	. . . Water-towers
9/14	. against other dangerous influences, e.g. tornadoes, floods	12/32	. . . Flagpoles
9/145	. . . {Floods (protecting building openings E06B 9/00)}	12/34	. . . Arrangements for erecting or lowering towers, masts, poles, chimney stacks, or the like
9/16	. against adverse conditions, e.g. extreme climate, pests	12/341	. . . {Arrangements for casting <i>in situ</i> concrete towers or the like}
12/00	Towers; Masts or poles; Chimney stacks; Water-towers; Methods of erecting such structures (cooling towers E04H 5/12; derricks for oil drilling E21B 15/00)	12/342	. . . {Arrangements for stacking tower sections on top of each other (E04H 12/344 takes precedence)}
12/003	. . . {Access covers or locks therefor}	12/344	. . . {Arrangements for lifting tower sections for placing additional sections under them}
2012/006	. . . {Structures with truss-like sections combined with tubular-like sections}	12/345	. . . {Arrangements for tilting up whole structures or sections thereof (E04H 12/347 takes precedence)}
12/02	. . . Structures made of specified materials	12/347	. . . {Arrangements for setting poles in the ground}
12/04	. . . of wood	12/348	. . . {Arrangements for demolition towers or the like}
12/06	. . . Truss-like structures		
12/08	. . . of metal		
12/085	. . . {Details of flanges for tubular masts}	13/00	Monuments; Tombs; Burial vaults; Columbaria
12/10	. . . Truss-like structures	13/001	. . . {Accessories for grave sites, e.g. liners, covers, vault lowering devices (E04H 13/003 takes precedence)}
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	13/003	. . . {Funeral monuments, grave sites curbing or markers not making part of vaults (E04H 13/008 takes precedence)}
12/14	. . . Truss-like structures	13/005	. . . {Ventilation systems therefor}
12/16	. . . Prestressed structures	13/006	. . . {Columbaria, mausoleum with frontal access to vaults}
12/18	. . . movable or with movable sections, e.g. rotatable or telescopic	13/008	. . . {Memorials for cremation ashes (E04H 13/006 takes precedence)}
12/182	. . . {telescopic (locking of telescopic systems in general F16B 7/10)}		
12/185	. . . {with identical elements}	14/00	Buildings for combinations of different purposes not covered by any single one of main groups E04H 1/00-E04H 13/00 of this subclass, e.g. for double purpose (E04H 3/02, E04H 9/06 take precedence); Buildings of the drive-in type
12/187	. . . {with hinged sections}		
12/20	. . . Side-supporting means therefor, e.g. using guy ropes or struts	15/00	Tents or canopies, in general
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)}	15/001	. . . {Hunting, fishing huts or the like}
12/2207	. . . {not used}	15/003	. . . {Bathing or beach cabins}
12/2215	. . . . {driven into the ground (ground anchors E02D 5/80)}	15/005	. . . {Wind breakers, i.e. fabric stretched between posts anchored in the ground}
12/2223	. . . . . {by screwing}	15/006	. . . {Tents used as toys}
12/223	. . . . . {with movable anchoring elements; with separately driven anchor rods}	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)}
12/2238	. . . . {to be placed on the ground (Christmas tree stands A47G 33/12)}	15/02	. . . Tents combined or specially associated with other devices
12/2246	. . . . {filled with water, sand or the like}	15/04	. . . suspended type, e.g. from trees or from cantilever supports
12/2253	. . . . {Mounting poles or posts to the holder (E04H 12/2284 takes precedence; break-away mountings E01F 9/631)}	15/06	. . . Tents at least partially supported by vehicles
12/2261	. . . . {on a flat base (E04H 12/08, E04H 12/10 take precedence)}	15/08	. . . . Trailers awnings or the like
12/2269	. . . . {in a socket}	15/10	. . . Heating, lighting or ventilating
		15/12	. . . . Heating
		15/14	. . . . Ventilating

15/16	. . . . of tent roofs	15/642	. . . {with covers held by elongated fixing members locking in longitudinal recesses of a frame}
15/18	. Tents having plural sectional covers, e.g. pavilions, vaulted tents, marquees, circus tents (inflatable E04H 15/20); Plural tents, e.g. modular	15/644	. . . . {the fixing members being a beading}
15/20	. inflatable, e.g. shaped, strengthened or supported by fluid pressure	15/646	. . . . {the fixing members being locked by an additional locking member}
2015/201	. . . {with inflatable tubular framework, with or without tent cover}	15/648	. . . . {the longitudinal recesses being made from two clamping members}
2015/202	. . . {with inflatable panels, without inflatable tubular framework}	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)
2015/203	. . . {supported by a non-inflatable structure or framework}	17/003	. . {Anti-climbing devices, e.g. fixed spikes}
2015/204	. . . {made from contiguous inflatable tubes}	17/004	. . . {Unstable, e.g. rotatory or resiliently mounted fence panels, spikes}
2015/205	. . . {made from two sheets with intermediate spacer means}	17/006	. . {Caps or covers for posts}
2015/206	. . {Details of inflation devices, e.g. valves, connections to fluid pressure source}	17/009	. . {Footing elements for fence posts or fence sections}
2015/207	. . {Tents specially designed for insulation}	17/013	. . {in combination with gates}
2015/208	. . {with inflatable mattresses}	17/017	. . {Fencing provided with electric elements or components, e.g. fencing member or component, such as fence strands, post, panel or rail, provided with electric elements or components}
2015/209	. . {Structures with a netting or similar for anchorage}		NOTE
15/22	. . supported by air pressure inside the tent		{When classifying in this group, aspects of electrified wire fencing for animal pasturing should also be classified in group A01K 3/005 }
15/24	. cone shaped, e.g. teepees	17/02	. Wire fencing, e.g. made of wire mesh (E04H 17/14 takes precedence)
15/26	. Centre-pole supported tents (umbrella-type E04H 15/28)	17/04	. . characterised by the use of specially adapted wire, e.g. barbed wire {, wire mesh, toothed strip or the like; Coupling means therefor}
15/28	. Umbrella type tents	17/045	. . . {Barbed wire or toothed strip}
15/30	. convertible, e.g. from one type tent to another type tent, from tent to canopy or from tent cover into diverse articles	17/05	. . . {Wire mesh or wire fabric}
15/32	. Parts, components, construction details, accessories, interior equipment, specially adapted for tents, e.g. guy-line equipment, skirts, thresholds	17/055	. . . {Pickets for wire fencing}
15/322	. . {Stretching devices}	17/06	. . Parts for wire fences
15/324	. . {Beds constituted by the tent supporting means (beds per se, A47C)}	17/063	. . . {Fence liners; Vegetation prevention barriers}
2015/326	. . {Frame members connected by elastic cord}	17/066	. . . {Slats for chain link fences}
2015/328	. . {Frames kept erected solely by guy lines}	17/08	. . . Anchoring means therefor, e.g. specially-shaped parts entering the ground; Struts or the like
15/34	. . Supporting means, e.g. frames		NOTE
15/36	. . . arch-shaped type (E04H 15/42 takes precedence {; arches connected with lazy-tongues E04H 15/505 })		Parts entering the ground are classified in E04H 12/22
15/38	. . . . expandable, e.g. extensible {in a fan type manner}	17/10	. . characterised by the way of connecting wire to posts; Drovers
15/40	. . . . flexible	17/12	. . . the wire being placed in slots, grooves, or the like
15/405	. . . . {flexible and foldable}	17/124	. . . {connecting by one or more clamps, clips, screws, wedges or ties}
15/42	. . . external type, e.g. frame outside cover	17/127	. . . {Stretcher-type wire fencing; Tensioning devices for wire fencing}
15/425	. . . . {Flexible supporting means}	17/131	. . . {the wire being tensioned by one or more springs}
15/44	. . . collapsible, e.g. breakdown type (E04H 15/42 takes precedence)	17/133	. . . {the wire being tensioned by one or more winders}
15/46	. . . . telescoping and foldable	17/135	. . . . {winder fixed to post via a bracket}
15/48	. . . . foldable, i.e. having pivoted or hinged means ({ E04H 15/405 and} E04H 15/46 takes precedence)	17/139	. . . . {winder internal to post}
15/50	. . . . . lazy-tongs type	17/14	. Fences constructed of rigid elements, e.g. with additional wire fillings or with posts
15/505	. . . . . {characterised by connecting arches with lazy-tongues}	17/1404	. . . {using building blocks, e.g. from concrete or stone}
15/52	. . . . . parallelogram type		
15/54	. . Covers of tents or canopies		
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		

17/1408	. . . {using woven slats}	17/23	. . . {lateral supporting elements, e.g. braces, tie downs, or cables}
17/1413	. . . {Post-and-rail fences, e.g. without vertical cross-members}	17/24	. . . Connections for attaching additional wire to frames, posts or railings
17/1417	. . . . {with vertical cross-members}	17/26	. Devices for erecting or removing fences
17/1426	. . . . . {Picket fences}	17/261	. . . {for post and wire handling}
17/143	. . . . . {with separate pickets attached to the side of the horizontal members}	17/263	. . . . {for erecting posts (pile driving E02D 7/00)}
17/1439	. . . . . {with separate pickets going through the horizontal members}	17/265	. . . . {for removing posts}
17/1445	. . . . . {Fences with pivotable slats for reduced wind resistance or for adjusting visibility}	17/266	. . . . {for stretching or winding wire or wire mesh (stretcher-type wire fencing or tensioning devices for wire fencing E04H 17/127)}
17/1447	. . . . . {Details of connections between rails and posts}	17/268	. . . {Hand tools for wiring fences, e.g. tying or splicing tools (E04H 17/266 takes precedence)}
17/1448	. . . . . {Adjustable, angled or hinged connections}		
17/145	. . . . . {being welded, bonded or deformed in-situ}		
17/1452	. . . . . {the ends of the rails are fixed on the lateral sides of the posts}		
17/1456	. . . . . {the ends of the rails being located in vertical channels extending along a substantial portion of the length of the post}		
17/146	. . . . . {the rails being attached to the front faces of the posts}		
17/1465	. . . . . {the rails being supported within blind or through holes of the posts}		
17/1469	. . . . . {Snap connections}		
17/1473	. . . . . {using fixing devices encircling, partially or fully, the post}		
17/1478	. . . . . {the posts extending through apertures or cut-outs in the rails}		
17/1482	. . . . . {the rails being attached to the tops of the posts}		
17/1486	. . . . . {the rails being positioned between the uprights of double posts}		
17/1488	. . . . . {Brackets for connections between rails and posts (E04H 17/1448- E04H 17/1486 take precedence)}		
17/16	. . . using prefabricated panel-like elements, e.g. wired frames		
17/1602	. . . . . {Using wooden, plastic or composite-material panel-like elements}		
17/161	. . . . . {using wire panels}		
17/163	. . . . . {using wired panels with frame}		
17/164	. . . . . {occultation devices therefor, e.g. slats, fence liners or panels blocking view therethrough}		
17/165	. . . . . {using panels with rigid filling and frame}		
17/166	. . . . . {with cross-members}		
17/168	. . . . . {using panels fitted in grooves of posts}		
17/17	. . . . . {brackets for the connection between panels and posts}		
17/18	. . . Corrals, i.e. easily transportable or demountable enclosures		
17/185	. . . . . {hinged or tied prefabricated panel-like elements}		
17/20	. . Posts therefor		
17/21	. . . . . {with hollow cross sections}		
17/22	. . . Anchoring means therefor, e.g. specially-shaped parts entering the ground; Struts or the like		

NOTE

Parts entering the ground are classified in
[E04H 12/22](#)