## CPC COOPERATIVE PATENT CLASSIFICATION

### E FIXED CONSTRUCTIONS
#### BUILDING

**E04** BUILDING (layered materials, layered products in general **B32B**)

**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 1/00**.

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.

### Classes

<table>
<thead>
<tr>
<th>1/00</th>
<th>Buildings or groups of buildings for dwelling or office purposes; General layout, e.g. modular co-ordination, staggered storeys (small buildings)</th>
<th>1/125</th>
<th>.</th>
<th>[Small buildings, arranged in other buildings (E04H 1/1272 takes precedence)]</th>
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<tr>
<td></td>
<td>(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)</td>
<td>1/125</td>
<td>.</td>
<td>[Small buildings, arranged in other buildings (E04H 1/1272 takes precedence)]</td>
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<td>1/005</td>
<td>.</td>
<td>(Modulation co-ordination)</td>
<td>1/125</td>
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<td>1/02</td>
<td>.</td>
<td>Dwelling houses; Buildings for temporary habitation, [e.g. summer houses] (small erections for limited occupation E04H 1/12); collapsible, erectable or rotatable buildings E04B 1/342)</td>
<td>1/125</td>
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<td>1/04</td>
<td>.</td>
<td>Apartment houses arranged in two or more levels</td>
<td>1/125</td>
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<td>1/06</td>
<td>.</td>
<td>Office buildings; Banks (E04H 1/12 takes precedence; furniture or fittings for shops, storehouses or the like A47F)</td>
<td>1/125</td>
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<td>1/12</td>
<td>.</td>
<td>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)</td>
<td>1/125</td>
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<td>1/1205</td>
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<td>1/1216</td>
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<td>[Public W.C.s]</td>
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<td>1/1222</td>
<td>.</td>
<td>[Sales kiosks]</td>
<td>1/125</td>
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<td>1/1227</td>
<td>.</td>
<td>[Traffic control kiosks]</td>
<td>1/125</td>
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<td>1/1233</td>
<td>.</td>
<td>[Shelters for filling stations]</td>
<td>1/125</td>
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<td>1/1238</td>
<td>.</td>
<td>[Shelters for engines, e.g. electrical meter housings]</td>
<td>1/125</td>
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<td>1/1244</td>
<td>.</td>
<td>[Dressing or beach cabins]</td>
<td>1/125</td>
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<td>2001/1283</td>
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<td>1/2001</td>
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<td>2001/1288</td>
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<td>1/2001</td>
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<td>2001/1294</td>
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<td>1/2001</td>
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3/126 . . . [Foldable, retractable or tiltable tribunes (E04H 3/123 takes precedence)]
3/14 . . . Gymnasiums; Other sporting buildings (tribunes E04H 3/12)
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 (swimming or splash baths or pools E04H 4/00)
3/165 . . . [having movable parts]
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])
3/24 . . . Constructional features of stages
3/26 . . . Revolving stages; Stages able to be lowered (devices for raising or lowering persons A63J 5/12)
3/28 . . . Shiftable or portable platforms
3/30 . . . Constructional features of auditoriums (chairs, stools, benches A47C; building details providing acoustical effects E04B 1/99)

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)
4/0006 . . . [Devices for producing waves in swimming pools (generating current of water in swimming pools A63B 69/125)]
4/0012 . . . [Floating swimming pools]
4/0018 . . . [Easily movable or transportable swimming pools] 4/0025 . . . [with inflatable parts]
4/0031 . . . [with shell type elements]
4/0037 . . . [Mono-shell type]
4/0043 . . . [mainly made of panels (E04H 4/0031 takes precedence)]
4/005 . . . [characterised by the framework for supporting the panels]
4/0056 . . . [with a framework combined with a water retaining bag]
4/0062 . . . [characterised by stacked planks or staves]
2004/0068 . . . [made of plastic shells or plastic elements including at least parts of walls and floors]
4/0075 . . . [made of concrete (E04H 4/0012 takes precedence)]
4/0081 . . . [with walls and floor cast in situ]
4/0087 . . . [with walls prefabricated and floor cast in situ] 4/0093 . . . [with walls and floor prefabricated]
4/06 . . . Safety devices; Coverings for baths
4/065 . . . [Floors adjustable in height]
4/08 . . . Coverings consisting of rigid elements [ , e.g. coverings composed of separate or connected elements]
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)]
4/084 . . . [with lifting mechanism]

4/086 . . . [Sliding covers (E04H 4/084 and E04H 4/088 take precedence)]
4/088 . . . [Covers made in concertina folds]
4/10 . . . Coverings of flexible material
4/101 . . . [wound-up on a fixed axis]
4/103 . . . [with inflatable chambers]
4/105 . . . [supported by air pressure under the cover]
4/106 . . . [supported by separate buoyant bodies]
4/108 . . . [supported by frames]
4/12 . . . Devices or arrangements for circulating water [ , i.e. devices for removal of polluted water, cleaning baths or for water treatment]
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]
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]
4/1281 . . . [Devices for distributing chemical products in the water of swimming pools]
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)]
4/14 . . . Parts, details or accessories not otherwise provided for
4/141 . . . [Coping elements for swimming pools]
4/142 . . . [with fixing means for sealing foil]
4/143 . . . [Swimming lane markers with or without wave suppressors]
4/144 . . . [Means for facilitating access, e.g. step units or slides (invalid-lifting devices for swimming pools A61G 7/1005)]
4/145 . . . [Dividing means for swimming pools, e.g. panels, bulkheads]
2004/0146 . . . [Fixing of liners]
2004/0147 . . . [the liner edge being held in a slot]
4/148 . . . [Lighting means]
4/16 . . . specially adapted for cleaning (cleaning devices peculiar to vessels B63B 59/00)
4/1609 . . . [Hand-held strainers, non-powered brushes or scrubbers]
4/1618 . . . [Hand-held powered cleaners]
4/1627 . . . [Powered gutter cleaners]
4/1636 . . . [Suction cleaners]
4/1645 . . . . [Connections to the pool water circulation system]
4/1654 . . . [Self-propelled cleaners]
4/1663 . . . [the propulsion resulting from an intermittent interruption of the workflow through the cleaner]
4/1672 . . . [Connections to the pool water circulation system]
4/1681 . . . [Cleaning whips]
4/169 . . . [Pool nozzles]
5/00 Buildings or groups of buildings for industrial or agricultural purposes (building construction in general E04B 1/00)
Buildings for parking cars, rolling stock, aircraft, vessels or like vehicles, e.g. garages (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)

Garages for many vehicles

without mechanical means for shifting or lifting vehicles, e.g. with helically-arranged fixed ramps, with movable ramps (E04H 6/26 takes precedence)

with mechanical means for shifting or lifting vehicles

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]

Garages shaped as a wheel or drum rotatable about a horizontal axis

with means for transport in vertical direction only or independently in vertical and horizontal directions (E04H 6/14 takes precedence)

[the cars rolling freely from the transfer means (E04H 6/282 takes precedence)]

[using car-gripping transfer means (E04H 6/285 takes precedence)]

[without transverse movement of the car after leaving the transfer means]

[using comb-type transfer means (E04H 6/287 takes precedence)]

[without transverse movement of the car after leaving the transfer means]

[using only vertical transport means]

6/20 . . . . . . characterised by the use of conveyor chains or rotatable rollers for horizontal transport

6/22 . . . . . . characterised by the use of movable platforms for horizontal transport, [i.e. cars being permanently parked on palettes (E04H 6/20 takes precedence)]

[without transverse movement of the parking palette after leaving the transfer means]

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)]

[without transverse movement of the wheeled parking platform after leaving the transfer means]

6/26 . . . . . . characterised by the use of tiltable floors or floor sections; characterised by the use of movable ramps

6/28 . . . . . . characterised by the use of turntables or rotary rings for horizontal transport (E04H 6/20 takes precedence)

[turntables, rotary elevators or the like on which the cars are not permanently parked]

6/285 . . . . . . [using car-gripping transfer means]

6/287 . . . . . . [using comb-type transfer means]

6/30 . . . . . . with means for transport in horizontal direction only

6/302 . . . . . . [the cars rolling freely from the transfer means]

6/305 . . . . . . [using car-gripping transfer means]

6/307 . . . . . . [using comb-type transfer means]

6/32 . . . . . . characterised by use of conveyor chains or rotatable rollers

6/34 . . . . . . characterised by use of movable platforms (E04H 6/32 takes precedence)

6/36 . . . . . . characterised by use of freely-movable dollies

6/38 . . . . . . characterised by use of tiltable floors or floor sections

6/40 . . . . . . characterised by use of turntables or rotary rings (E04H 6/32 - E04H 6/38 take precedence)

6/42 . . . . . . Devices or arrangements peculiar to garages, not covered elsewhere, e.g. securing devices, safety devices [, monitoring and operating schemes; centering devices]

6/422 . . . . . . [Automatically operated car-parks]

6/424 . . . . . . [Positioning devices]

6/426 . . . . . . [Parking guides]

6/428 . . . . . . [Devices for collecting oil or other fluids under parked cars (servicing, maintaining, repairing or refitting of vehicles B60S 5/00)]

6/44 . . . . . . for storing aircraft (structures covering a large free area E04B 1/342)

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)
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 E03B; 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 E41H 3/00; cells or rooms shielded against dangerous pests E04G 23/04; and comprising rolling elements, e.g. balls, pins E01F 9/60; fastening elements e.g. with metal coverings, with permanent form D01F 9/627; and comprising laminated structures of alternating elastomeric and rigid layers E04B 1/985)

9/02 . . . withstand ing earthquake or sinking of ground (foundations E02D 27/34 ; making use of active or passive dynamic mass damping systems E04B 1/985)

9/12 . . . entirely underneath the level of the ground, e.g. air-raid galleries (tunnels, mine galleries E21D)

9/14 . . . against other dangerous influences, e.g. tornadoes, floods

9/16 . . . against adverse conditions, e.g. extreme climate, pests

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)

12/03 . . . [Access covers or locks therefor]

12/04 . . . of wood

12/06 . . . Truss-like structures

12/08 . . . of metal

12/085 . . . [Details of flanges for tubular masts]

12/10 . . . Truss-like structures

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 12/14 . . . Truss-like structures

12/16 . . . Prestressed structures

12/18 . . . movable or with moveable sections, e.g. rotatable, telescopic (flexible salom gate poles A63C 19/062; flexible road sign supports E01F 9/627; rotary buildings E04B 1/346)

12/182 . . . (telescopic (locking of telescopic systems in general F16B 7/10))

12/185 . . . (with identical elements)

12/187 . . . (with hinged sections)

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)

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)

12/2207 . . . [not used]

12/2215 . . . [driven into the ground (ground anchors E02D 5/80)]

12/2233 . . . [by screwing]

12/223 . . . [with moveable anchoring elements; with separately driven anchor rods]

12/2288 . . . [to be placed on the ground (Christmas tree stands A47G 33/12)]

12/2246 . . . [filled with water, sand or the like]

12/2253 . . . [Mounting poles or posts to the holder (E04H 12/2284 takes precedence; break-away mountings E01F 9/631)]

12/2261 . . . [on a flat base (E04H 12/08, E04H 12/10 take precedence)]

12/2269 . . . [in a socket]
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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 in situ concrete towers or the like]

12/342 . . . [Arrangements for stacking tower sections on top of each other (E04H 12/344 takes precedence)]

12/344 . . . [Arrangements for lifting tower sections for placing additional sections under them]

12/345 . . . [Arrangements for tilting up whole structures or sections thereof (E04H 12/347 takes precedence)]

12/347 . . . [Arrangements for setting poles in the ground]

12/348 . . . [Arrangements for demolition towers or the like]

13/00 Monuments; Tombs; Burial vaults; Columbaria, (coffins, urns A61G 17/00); sculpture or other artistic features B44)

13/001 . . . [Accessories for grave sites, e.g. liners, covers, vault lowering devices (E04H 13/003 takes precedence)]

13/003 . . . [Funeral monuments, grave sites curbing or markers not making part of vaults (E04H 13/008 takes precedence)]

13/005 . . . [Ventilation systems therefor]

13/006 . . . [Columbaria, mausoleum with frontal access to vaults]

13/008 . . . [Memorials for cremation ashes (E04H 13/006 takes precedence)]

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

15/00 Tents or canopies, in general

15/001 . . . [Hunting, fishing huts or the like]

15/003 . . . [Batting or beach cabins]

15/005 . . . [Wind breakers, i.e. fabric stretched between posts anchored in the ground]

15/006 . . . [Tents used as toys]

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)]

15/02 . . . Tents combined or specially associated with other devices

15/04 . . . suspended type, e.g. from trees, from cantilever supports (supporting frames E04H 15/34)

15/06 . . . Tents at least partially supported by vehicles

15/08 . . . . Trailer awnings or the like

15/10 . . . Heating, lighting or ventilating (for heating, lighting or ventilating devices per se, see the relevant classes, e.g. F21, F24)

15/12 . . . Heating

15/14 . . . Ventilating

15/16 . . . . of tent roofs

15/18 . . . Tents having plural sectional covers, e.g. pavilions, vaulted tents, marquees, circus tents (inflatable E04H 15/20); Plural tents, e.g. modular 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)

15/201 . . . [with inflatable tubular framework, with or without tent cover]

15/202 . . . [with inflatable panels, without inflatable tubular framework]

15/203 . . . [supported by a non-inflatable structure or framework]

15/204 . . . [made from contiguous inflatable tubes]

15/205 . . . [made from two sheets with intermediate spacer means]

15/206 . . . [Details of inflation devices, e.g. valves, connections to fluid pressure source]

15/207 . . . [Tents specially designed for insulation]

15/208 . . . [with inflatable mattresses]

15/209 . . . [Structures with a netting or similar for anchorage]

15/22 . . . supported by air pressure inside the tent

15/24 . . . cone shaped, e.g. teepees

15/26 . . . Centre-pole supported tents (umbrella-type E04H 15/28)

15/28 . . . Umbrella type tents

15/30 . . . convertible, e.g. from one type to another type, 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)

15/32 . . . Parts, components, construction details, accessories, interior equipment, specially adapted for tents, e.g. guy-line equipment, skirts, thresholds

15/322 . . . [Stretching devices]

15/324 . . . [Beds constituted by the tent supporting means (beds per se, A47C)]

15/326 . . . [Frame members connected by elastic cord]

15/328 . . . [Frames kept erected solely by guy lines]

15/34 . . . Supporting means, e.g. frames

15/36 . . . . arch-shaped type (E04H 15/42 takes precedence; arches connected with lazy-tongues E04H 15/505)

15/38 . . . . expandible, e.g. extensible [in a fan type manner]

15/40 . . . . flexible

15/405 . . . . [Flexible and foldable]

15/42 . . . . external type, e.g. frame outside cover

15/425 . . . . [Flexible supporting means]

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)
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)

17/00

17/003 [Anti-climbing devices, e.g. fixed or rotary spikes]

17/006 [Caps for posts]

17/02 Wire fencing (E04H 17/14 takes precedence)

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)

17/06 Parts for wire fences

17/063 [Fence liners; Vegetation prevention barriers]

17/066 [Slats for chain link fences]

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)

NOTE

Parts entering the ground are classified in

E04H 12/22

17/10 characterised by the way of connecting wire to posts; Droppers

17/12 the wire being placed in slots, grooves, or the like

17/14 Fences constructed of rigid elements, e.g. with posts, with additional wire fillings

17/1404 [using building blocks]

17/1408 [using woven slats]

17/1413 [Post-and-rail fences without vertical cross-members]

17/1417 [Post-and-rail fences with vertical cross-members]

17/1421 [Connections between rail and post]

17/1426 [Picket fences]

17/143 [with separate pickets attached to the side of the horizontal members]

17/1434 [Connections between horizontal members and post]