

ECLA EUROPEAN CLASSIFICATION

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

[N: **WARNING**

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

[E04H4/02](#) covered by [E04H4/00C](#), [E04H4/00D](#)
[E04H4/04](#) covered by [E04H4/00C](#), [E04H4/00D](#)
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Note

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 [A47C29/00](#); protecting chairs against the weather [A47C7/66](#); sunshades or awnings for buildings [E04F10/00](#)
3. In this subclass, the term "tent" means a tent or canopy having a supporting means, e.g. frame and a flexible cover

E04H1/00 Buildings or groups of buildings for dwelling or office purposes; General lay-out, e.g. modular co-ordination, staggered storeys [N: small buildings] ([E04H3/00](#) takes precedence; buildings for two or more purposes, e.g. drive-in buildings [14/00](#); building construction in general [E04B1/00](#))

E04H1/00B . [N: Modulation co-ordination]

E04H1/02 . Dwelling houses; Buildings for temporary habitation, [N: e.g. summer houses] (small erections for limited occupation [E04H1/12](#)) [N: collapsible, erectable or rotatable buildings [E04B1/343](#)]

E04H1/04 . . Apartment houses arranged in two or more levels

E04H1/06 . Office buildings; Banks ([E04H1/12](#) takes precedence; furniture or fittings for shops, storehouses or the like [A47F](#))

E04H1/12 . 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 [A47G5/00](#))

E04H1/12B . . [N: Small buildings erected in the open air ([E04H1/12E](#) takes precedence)] [C9603]

E04H1/12B1 . . . [N: Waiting shelters for bus stops]

E04H1/12B2 . . . [N: Public W.C.s]

- E04H1/12B3 . . . [N: Sales kiosks]
- E04H1/12B4 . . . [N: Traffic control kiosks]
- E04H1/12B5 . . . [N: Shelters for filling stations]
- E04H1/12B6 . . . [N: Shelters for engines, e.g. electrical meter housings]
- E04H1/12B7 . . . [N: Dressing or beach cabins] [N9603]
- E04H1/12C . . [N: Small buildings, arranged in other buildings ([E04H1/12E](#) takes precedence)]
[C9603]
- E04H1/12C2 . . . [N: Voting booths]
- E04H1/12C3 . . . [N: Cubicles for fire-protection]
- E04H1/12C4 . . . [N: Cubicles for dressing; Toilets] [N9603]
- E04H1/12E . . [N: Exhibition stands]
- E04H1/12F . . [N: Shelters for decontamination]
- E04H1/14 . . Telephone cabinets

E04H3/00 **Buildings or groups of buildings for public or similar purposes; Institutions, e.g. infirmaries, prisons** (portions of buildings for individual occupation, e.g. cubicles [E04H1/00](#); structures covering a large free area [E04B1/342](#))

- E04H3/02 . . . Hotels; Motels; Coffee houses; Restaurants; Shops; Department stores [N: furnishing or fitting [A47E](#)]
- E04H3/04 . . . Restaurants or shops having arrangements for self-service (paying counters [A47F9/02](#); furniture or installations specially adapted for supermarkets [A47F10/00](#); transport aspects [B65G](#); coin-freed apparatus [G07F](#))
- E04H3/06 . . . Museums; Library buildings
- E04H3/08 . . . Hospitals, infirmaries, or the like; Schools; Prisons
- E04H3/10 . . . for meetings, entertainments, or sports
- E04H3/12 . . . Tribunes, grandstands or terraces for spectators [N: or amphitheatres] (auditoriums [E04H3/30](#); chairs, stools, benches [A47C](#))
- E04H3/12B [N: Telescopic grandstands]
- E04H3/12C [N: Foldable, retractable or tiltable tribunes ([E04H3/12B](#) takes precedence)]
- E04H3/14 . . . Gymnasiums; Other sporting buildings (tribunes [E04H3/12](#))
- E04H3/16 for swimming (swimming or splash baths or pools [E04H4/00](#))
- E04H3/16B [N: having movable parts]
- E04H3/22 . . . Theatres; Concert halls; Studios for broadcasting, cinematography, television or similar purposes (drive-in buildings [E04H14/00](#); equipment for theatres or concert halls [A63J](#); [N: vehicles specially adapted to carry a theatre or stage [B60P3/025](#)])
[C9502]
- E04H3/24 Constructional features of stages
- E04H3/26 Revolving stages; Stages able to be lowered (devices for raising or lowering persons [A63J5/12](#))
- E04H3/28 Shiftable or portable platforms
- E04H3/30 Constructional features of auditoriums (chairs, stools, benches [A47C](#); building details providing acoustical effects [E04B1/99](#))

E04H4/00 **Swimming or splash baths or pools** (wave-producers for baths [A47K3/10](#); separation

B01D; treatment of water C02F; wave-producing pumps F04D 35/00)

- E04H4/00A . [N: Devices for producing waves in swimming pools (generating current of water in swimming pools [A63B69/12B](#))] [C9506]
- E04H4/00B . [N: Floating swimming pools]
- E04H4/00C . [N: Easily movable or transportable swimming pools] [C1006]
- E04H4/00C1 . . [N: with inflatable parts] [N9804]
- E04H4/00C2 . . [N: with shell type elements] [N1006]
- E04H4/00C2A . . . [N: Mono-shell type] [N1006]
- E04H4/00C3 . . [N: mainly made of panels (E04H 4/00C2 takes precedence)] [N1006]
- E04H4/00C3B . . . [N: characterised by the framework for supporting the panels] [N1006]
- E04H4/00C4 . . [N: with a framework combined with a water retaining bag] [N1006]
- E04H4/00C5 . . [N: characterised by stacked planks or staves] [N1006]
- E04H4/00D . [N: made of concrete ([E04H4/00B](#) takes precedence)] [C9609]
- E04H4/00D1 . . [N: with walls and floor cast in situ] [N9609]
- E04H4/00D2 . . [N: with walls prefabricated and floor cast in situ] [N9609]
- E04H4/00D3 . . [N: with walls and floor prefabricated] [N9609]
- E04H4/06 . Safety devices; Coverings for baths
- E04H4/06A . . [N: Floors adjustable in height]
- E04H4/08 . . Coverings consisting of rigid elements, [N: e.g. coverings composed of separate or connected elements] [C9611]
- E04H4/08A . . . [N: composed of flexibly or hingedly-connected slat-like elements, which may or may not be wound-up on a fixed axis ([E04H4/08F](#) takes precedence)] [N9412] [C9611]
- E04H4/08C . . . [N: with lifting mechanism] [N9611]
- E04H4/08D . . . [N: Sliding covers ([E04H4/08C](#) and [E04H4/08F](#) take precedence)] [N9611]
- E04H4/08F . . . [N: Covers made in concertina folds] [N9611]
- E04H4/10 . . Coverings of flexible material
- E04H4/10A . . . [N: wound-up on a fixed axis]
- E04H4/10B . . . [N: with inflatable chambers] [N9709]
- E04H4/10C . . . [N: supported by air pressure under the cover] [N9709]
- E04H4/10D . . . [N: supported by separate buoyant bodies] [N9709]
- E04H4/10F . . . [N: supported by frames] [N9807]
- E04H4/12 . Devices or arrangements for circulating water, [N: i.e. devices for removal of polluted water, cleaning baths or for water treatment]
- E04H4/12A . . [N: Treatment of water for swimming pools (filters [B01D](#))]
- E04H4/12A1 . . . [N: Devices for removal of polluted water; Circumferential gutters]
- E04H4/12A1G [N: Circumferential gutters] [N0905]
- E04H4/12A2 . . . [N: Bottom drains] [N0905]
- E04H4/12A3 . . . [N: Recirculating pumps for swimming pool water]

- E04H4/12A4 . . . [N: Arm-mounted debris traps or flow diverters] [C0905]
- E04H4/12A5 . . . [N: Floating skimmers]
- E04H4/12A6 . . . [N: Skimmers integrated in the pool wall] [N0905]
- E04H4/12B . . . [N: Devices for distributing chemical products in the water of swimming pools]
- E04H4/12C . . . [N: Systems for heating the water content of swimming pools (solar collectors using pools [F24J2/04B16](#), [F24J2/04C](#); by solar radiation [F24J2/42B](#))]

- E04H4/14 . . . Parts, details or accessories not otherwise provided for
- E04H4/14A . . . [N: Coping elements for swimming pools]
- E04H4/14A1 [N: with fixing means for sealing foil]
- E04H4/14B . . . [N: Swimming lane markers with or without wave suppressors]
- E04H4/14C . . . [N: Means for facilitating access, e.g. step units or slides (invalid-lifting devices for swimming pools [A61G7/10D](#))] [N9410]
- E04H4/14D . . . [N: Dividing means for swimming pools, e.g. panels, bulkheads] [N9410]
- E04H4/14M . . . [N: Lighting means] [N1007]
- E04H4/16 . . . specially adapted for cleaning (cleaning devices peculiar to vessels [B63B59/00](#))
- E04H4/16A [N: Hand-held strainers, non-powered brushes or scrubbers]
- E04H4/16B [N: Hand-held powered cleaners]
- E04H4/16B1 [N: Powered gutter cleaners]
- E04H4/16B2 [N: Suction cleaners]
- E04H4/16B2A [N: Connections to the pool water circulation system] [N1204]
- E04H4/16C [N: Self-propelled cleaners]
- E04H4/16C1 [N: the propulsion resulting from an intermittent interruption of the waterflow through the cleaner] [N9506]
- E04H4/16C2 [N: Connections to the pool water circulation system] [N1204]
- E04H4/16D [N: Cleaning whips]
- E04H4/16E [N: Pool nozzles]

E04H5/00 **Buildings or groups of buildings for industrial or agricultural purposes (building construction in general [E04B1/00](#))**

- E04H5/02 . . . Buildings or groups of buildings for industrial purposes, e.g. for power-plants, factories (buildings forming part of cooling plants [E04H5/10](#); building structures for parking vehicles [E04H6/00](#))
- E04H5/04 . . . Transformer houses; Substations or switchgear houses [C9410]
- E04H5/06 . . . Pits or building structures for inspection or services (manhole shafts or other inspection chambers in general [E02D29/12](#))

- E04H5/08 . . . Buildings or groups of buildings for agricultural purposes (silos [E04H7/22](#); manure storage places [A01C3/02](#); greenhouses [A01G9/14](#))

- E04H5/10 . . . Buildings forming part of cooling plants
- E04H5/12 Cooling towers (towers in general [E04H12/00](#); cooling equipment [F28](#))

E04H6/00 **Buildings for parking cars, rolling stock, aircraft, vessels or like vehicles, e.g. garages (tents for use as garages [E04H15/00](#); bicycle stands [B62H](#); storing of vessels on land [B63C15/00](#); construction of ground-supported surfaces [E01C](#); marking of parking areas on the ground [E01F9/00](#); building construction in general [E04B1/00](#))**

- E04H6/00B . [N: Garages for vehicles on two wheels]
- E04H6/02 . Small garages, e.g. for one or two cars (attached to, or supported by, the vehicle [B62D](#); prefabricated and with undivided interior [E04B1/343](#))
- E04H6/02B . . [N: in the form of an overhead canopy, e.g. carports]
- E04H6/04 . . wheeled, hinged, foldable, telescopic, swinging or otherwise movable ([N: [E04H6/02B](#) takes precedence]; transportable or collapsible buildings in general [E04B1/343](#))
- E04H6/06 . . with means for shifting or lifting vehicles
- E04H6/06B . . . [N: using tiltable floors or ramps (in garages for many vehicles [E04H6/26](#))]
- E04H6/08 . Garages for many vehicles
- E04H6/10 . . without mechanical means for shifting or lifting vehicles, e.g. with helically-arranged fixed ramps, with movable ramps [N: [E04H6/26](#) takes precedence]
- E04H6/12 . . with mechanical means for shifting or lifting vehicles
- E04H6/14 . . . with endless conveyer chains having load-carrying parts moving vertically, e.g. paternoster lifts [N: also similar transport in which cells are continuously mechanically linked together]
- E04H6/16 . . . Garages shaped as a wheel or drum rotatable about a horizontal axis
- E04H6/18 . . . with means for transport in vertical direction only or independently in vertical and horizontal directions ([E04H6/14](#) takes precedence)
- E04H6/18A [N: the cars rolling freely from the transfer means ([E04H6/28A](#) takes precedence)]
- E04H6/18B [N: using car-gripping transfer means ([E04H6/28A1](#) takes precedence)]
- E04H6/18B1 [N: without transverse movement of the car after leaving the transfer means]
- E04H6/18C [N: using comb-type transfer means ([E04H6/28A2](#) takes precedence)]
- E04H6/18C1 [N: without transverse movement of the car after leaving the transfer means]
- E04H6/18D [N: using vertical parking loops]
- E04H6/18E [N: using only vertical transport means]
- E04H6/20 characterised by the use of conveyer chains or rotatable rollers for horizontal transport
- E04H6/22 characterised by the use of movable platforms for horizontal transport, [N: i.e. cars being permanently parked on pallets ([E04H6/20](#) takes precedence)]
- E04H6/22A [N: without transverse movement of the parking palette after leaving the transfer means]
- E04H6/24 characterised by the use of dollies for horizontal transport, [N: i.e. cars being permanently parked on wheeled platforms ([E04H6/20](#) takes precedence)]
- E04H6/24A [N: without transverse movement of the wheeled parking platform after leaving the transfer means]
- E04H6/26 characterised by the use of tiltable floors or floor sections; characterised by the use of movable ramps
- E04H6/28 characterised by the use of turntables or rotary rings for horizontal transport [N: [E04H6/20](#) takes precedence]
- E04H6/28A [N: turntables, rotary elevators or the like on which the cars are not permanently parked]

- E04H6/28A1 [N: using car-gripping transfer means]
- E04H6/28A2 [N: using comb-type transfer means]
- E04H6/30 . . . with means for transport in horizontal direction only
- E04H6/30A [N: the cars rolling freely from the transfer means]
- E04H6/30B [N: using car-gripping transfer means]
- E04H6/30C [N: using comb-type transfer means]
- E04H6/32 characterised by use of conveyer chains or rotatable rollers
- E04H6/34 characterised by use of movable platforms [N: [E04H6/32](#) takes precedence]
- E04H6/36 characterised by use of freely-movable dollies
- E04H6/38 characterised by use of tiltable floors or floor sections
- E04H6/40 characterised by use of turntables or rotary rings [N: [E04H6/32](#) to [E04H6/38](#) take precedence]

- E04H6/42 . . . Devices or arrangements peculiar to garages, not covered elsewhere, e.g. securing devices, safety devices, [N: monitoring and operating schemes; centering devices]
- E04H6/42A . . . [N: Automatically operated car-parks]
- E04H6/42A1 [N: Positioning devices]
- E04H6/42B . . . [N: Parking guides]
- E04H6/42C . . . [N: Devices for collecting oil or other fluids under parked cars (servicing, maintaining, repairing or refitting of vehicles [B60S5/00](#))]

- E04H6/44 . . . for storing aircraft (structures covering a large free area [E04B1/342](#))

E04H7/00 Construction or assembling of bulk storage containers employing civil engineering techniques in situ or off the site (tower aspects [E04H12/00](#); storage aspects, e.g. floating roofs, sealing means, filling or discharging means [B65D](#), [B65G](#), [F17B](#), [F17C](#); foundations [E02D27/38](#))

- E04H7/02 . . . Containers for fluids or gases; Supports therefor (arrangements or adaptations of tanks for water supply [E03B11/00](#))
- E04H7/04 . . . mainly of metal
- E04H7/06 with vertical axis
- E04H7/06B [N: roof constructions]
- E04H7/14 ball-shaped
- E04H7/16 with horizontal axis
- E04H7/18 . . . mainly of concrete, e.g. reinforced concrete, or other stone-like material
- E04H7/20 Prestressed constructions

- E04H7/22 . . . Containers for fluent solids, e.g. silos, bunkers; Supports therefor
- E04H7/24 . . . Constructions, with or without perforated walls, depending on the use of specified materials
- E04H7/26 mainly of concrete, e.g. reinforced concrete or other stone-like materials
- E04H7/28 composed of special building elements
- E04H7/30 mainly of metal
- E04H7/32 mainly of wood

E04H9/00 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 [E04B1/36](#); special details in regard to insulation or other protection [E04B1/62](#); supporting structures for endangered or damaged existing buildings or parts thereof [E04G23/04](#); doors, windows [E06B5/00](#); air-conditioning, ventilation [F24F](#); camouflage [F41H3/00](#); cells or rooms shielded against dangerous radiation [G21F7/00](#))

- E04H9/02 . withstanding earthquake or sinking of ground (foundations [E02D27/34](#); [N: making use of active or passive dynamic mass damping systems [E04B1/98A](#)])
- E04H9/02B . . [N: Bearing, supporting or connecting constructions specially adapted for such buildings]
- E04H9/02B2 . . . [N: and comprising laminated structures of alternating elastomeric and rigid layers]
- E04H9/02B3 . . . [N: and comprising rolling elements, e.g. balls, pins] [N9701]
- E04H9/02E . . [N: Structures with steel columns and beams] [N1204]
- E04H9/02G . . [N: Structures with concrete columns] [N1204]
- E04H9/02R . . [N: Preventive constructional measures against earthquake damage in existing buildings] [N1204]
- E04H9/02S . . [N: Earthquake withstanding shelters] [N1204]
- E04H9/02S1 . . . [N: arranged inside of buildings (E04H9/06 takes precedence)] [N1204]

- E04H9/04 . against air-raid or other warlike actions (respiratory apparatus [A62B](#))
- E04H9/06 . . Structures arranged in or forming part of buildings
- E04H9/08 . . . Structures arranged underneath buildings, e.g. air-raid shelters
- E04H9/10 . . Independent shelters; Arrangement of independent splinter-proof walls
- E04H9/12 . . . entirely underneath the level of the ground, e.g. air-raid galleries (tunnels, mine galleries [E21D](#))

- E04H9/14 . against other dangerous influences, e.g. tornadoes, floods
- E04H9/14F . . [N: Floods (protecting building openings [E06B9/00](#))] [N0202]

- E04H9/16 . against adverse conditions, e.g. extreme climate, pests

- E04H12/00** **Towers; Masts, poles; Chimney-stacks; Water-towers; Methods of erecting such structures** (cooling-towers [E04H5/12](#); devices for erecting masts or poles [B66F](#); foundation piles [E02D5/22](#); foundations for masts, poles, chimneys [E02D27/42](#); structural elongated members in general [E04C3/00](#); fixed climbing irons [E06C9/04](#); derricks for oil drilling [E21B15/00](#))

- E04H12/00D . [N: Access covers or locks therefor] [N9701] [C9905]
- E04H12/02 . Structures made of specified materials ([E04H12/16](#), [E04H12/18](#) take precedence)
- E04H12/04 . . of wood
- E04H12/06 . . . Truss-like structures
- E04H12/08 . . of metal
- E04H12/08F . . . [N: Details of flanges for tubular masts] [N1103]

- E04H12/10 . . . Truss-like structures
- E04H12/12 . . of concrete or other stone-like material, with or without internal or external reinforcements, e.g. with metal coverings, with permanent form elements
- E04H12/14 . . . Truss-like structures
- E04H12/16 . Pre-stressed structures
- E04H12/18 . movable or with movable sections, e.g. rotatable, telescopic ([N: flexible slalom gate poles [A63C19/06A](#); flexible road sign supports [E01F9/017](#)]; rotary buildings [E04B1/346](#))
- E04H12/18B . . [N: telescopic (locking of telescopic systems in general [F16B7/10](#))]
- E04H12/18C . . [N: with identical elements]
- E04H12/18D . . [N: with hinged sections]
- E04H12/20 . Side supporting means therefor, e.g. using guy ropes, struts (ground anchors [E02D5/80](#); fastening means for cables or ropes [F16G11/00](#))
- E04H12/22 . Sockets or holders for poles or posts [N: (for sports articles, e.g. floor sockets [A63B71/02S](#); for road signs [E01F9/011](#); foundations for poles, masts or chimneys [E02D27/42](#))]
- E04H12/22A . . [N: not used]
- E04H12/22A1 . . . [N: driven into the ground (ground anchors [E02D5/80](#))]
- E04H12/22A1B [N: by screwing]
- E04H12/22A1C [N: with movable anchoring elements; with separately driven anchor rods]
- E04H12/22B . . [N: to be placed on the ground (christmas tree stands [A47G33/12](#))]
- E04H12/22B1 . . . [N: filled with water, sand or the like]
- E04H12/22C . . [N: Mounting poles or posts to the holder ([E04H12/22D](#) takes precedence; break-away mountings [E01F9/018](#))]
- E04H12/22C1 . . . [N: on a flat base ([E04H12/08](#), [E04H12/10](#) take precedence)]
- E04H12/22C2 . . . [N: in a socket]
- E04H12/22C3 . . . [N: Clamping poles or posts on a stub ([E04H12/22C2](#) takes precedence)]
- E04H12/22D . . [N: Means for adjusting the orientation of the post or pole]
- E04H12/22E . . [N: Holders used for protection, repair or reinforcement of the post or pole ([E04H12/22C3](#) takes precedence)] [C9604]
- E04H12/24 . Cross arms
- E04H12/26 . Winding-towers for mines (elevators [B66B](#))
- E04H12/28 . Chimney stacks, e.g. free-standing, or similar ducts (foundations [E02D27/42](#); chimneys as part of buildings [E04F17/02](#); connections between furnace and smoke-stack, chimney equipment [F23](#))
- E04H12/30 . Water-towers (tanks [B65D88/00](#); use of high-level tanks [E03B11/12](#))
- E04H12/32 . Flagpoles (flags, banners, mountings therefor [G09F17/00](#))
- E04H12/34 . Arrangements for erecting or lowering towers, masts, poles, chimney stacks, or the like [C9410]

- E04H12/34C . . [N: Arrangements for casting in situ concrete towers or the like] [N1204]
- E04H12/34D . . [N: Arrangements for stacking tower sections on top of each other (E04H12/34E takes precedence)] [N1204]
- E04H12/34E . . [N: Arrangements for lifting tower sections for placing additional sections under them] [N1204]
- E04H12/34F . . [N: Arrangements for tilting up whole structures or sections thereof (E04H12/34G takes precedence)] [N1204]
- E04H12/34G . . [N: Arrangements for setting poles in the ground] [N1204]
- E04H12/34H . . [N: Arrangements for demolition towers or the like] [N1204]

E04H13/00 **Monuments; Tombs; Burial vaults; Columbaria,** ([N: coffins, urns [A61G17/00](#)]; sculpture or other artistic features [B44](#)) [C9904]

- E04H13/00A . [N: Accessories for grave sites, e.g. liners, covers, vault lowering devices ([E04H13/00B](#) takes precedence)] [N9904]
- E04H13/00B . [N: Funeral monuments, grave sites curbing or markers not making part of vaults ([E04H13/00E](#) takes precedence)] [C9904]
- E04H13/00C . [N: Ventilation systems therefor]
- E04H13/00D . [N: Columbaria, mausoleum with frontal access to vaults] [C9904]
- E04H13/00E . [N: Memorials for cremation ashes ([E04H13/00D](#) takes precedence)] [N9904]

E04H14/00 **Buildings for combinations of different purposes not covered in a single previous group of this subclass, e.g. for double purpose** ([E04H3/02](#), [E04H9/06](#) take precedence); **Buildings of the drive-in type**

E04H15/00 **Tents or canopies, in general**

- E04H15/00A . [N: Hunting, fishing huts or the like]
- E04H15/00B . [N: Bathing or beach cabins]
- E04H15/00B1 . . [N: Wind breakers, i.e. fabric stretched between posts anchored in the ground] [N1204]
- E04H15/00C . [N: Tents used as toys]
- E04H15/00D . [N: Tents or tent-like constructions composed partially of rigid panels ([E04H15/06](#) takes precedence; trailer-type vehicles or caravans with foldable or readily disassembled living accommodation comprising flexible elements [B60P3/34B](#))] [N9412]
- E04H15/02 . Tents combined or specially associated with other devices
- E04H15/04 . . suspended type, e.g. from trees, from cantilever supports ([supporting frames E04H15/34](#))
- E04H15/06 . . Tents at least partially supported by vehicles
- E04H15/08 . . . Trailer awnings or the like

- E04H15/10 . . Heating, lighting or ventilating (for heating, lighting or ventilating devices per se, see the relevant classes, e.g. [F21](#), [F24](#))
- E04H15/12 . . . Heating
- E04H15/14 . . . Ventilating
- E04H15/16 of tent roofs
- E04H15/18 . Tents having plural sectional covers, e.g. pavilions, vaulted tents, marquees, circus tents ([inflatable E04H15/20](#)); Plural tents, e.g. modular
- E04H15/20 . inflatable, e.g. shaped, strengthened, or supported by fluid pressure ([connection of valves to inflatable elastic bodies B60C29/00](#); inflatable forms for making walls or the like [E04G11/04](#))
- E04H15/22 . . supported by air pressure inside the tent
- E04H15/24 . cone shaped, e.g. teepees
- E04H15/26 . Centre-pole supported tents ([umbrella-type E04H15/28](#))
- E04H15/28 . Umbrella type tents
- E04H15/30 . 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 A45F4/04](#); [coats or capes convertible into tent coverings A45F4/14](#))
- E04H15/32 . Parts, components, construction details, accessories, interior equipment, specially adapted for tents, e.g. guy-line equipment, skirts, thresholds
- E04H15/32B . . [\[N: Stretching devices\]](#)
- E04H15/32C . . [\[N: Beds constituted by the tent supporting means \(Beds per se, A47C\)\]](#)
- E04H15/34 . . Supporting means, e.g. frames
- E04H15/36 . . . arch-shaped type ([E04H15/42 takes precedence](#); [\[N: arches connected with lazy-tongues E04H15/50A\]](#)) [[C1006](#)]
- E04H15/38 expansible, e.g. extensible [\[N: in a fan type manner\]](#) [[C9906](#)]
- E04H15/40 flexible
- E04H15/40B [\[N: flexible and foldable\]](#) [[N1204](#)]
- E04H15/42 . . . external type, e.g. frame outside cover
- E04H15/42A [\[N: Flexible supporting means\]](#) [[N9705](#)]
- E04H15/44 . . . collapsible, e.g. breakdown type [\[N: having connecting nodes\]](#) ([E04H15/42 takes precedence](#); [building structures having collapsible parts in general E04B1/343](#)) [[C9906](#)]
- E04H15/46 telescoping and foldable
- E04H15/48 foldable, i.e. having pivoted or hinged means ([\[N: E04H15/40B and E04H15/46 takes precedence\]](#)) [[M1207](#)]
- E04H15/50 lazy-tong type
- E04H15/50A [\[N: characterised by connecting arches with lazy-tongues\]](#) [[N1006](#)]
- E04H15/52 parallelogram type
- E04H15/54 . . Covers of tents or canopies ([ventilated tent roofs E04H15/16](#))
- E04H15/56 . . Floors
- E04H15/58 . . Closures; Awnings; Sunshades

- E04H15/60 . . Poles
- E04H15/62 . . Pegs, stakes or the like
- E04H15/64 . . Tent or canopy cover fastenings
- E04H15/64B . . . [N: with covers held by elongated fixing members locking in longitudinal recesses of a frame] [C0607]
- E04H15/64B2 [N: the fixing members being a beading] [N1204]
- E04H15/64B4 [N: the fixing members being locked by an additional locking member] [N1204]
- E04H15/64B6 [N: the longitudinal recesses being made from two clamping members] [N1204]

- E04H17/00** **Fencing, e.g. fences, enclosures, corrals** (features peculiar to electrified fences [A01K3/00](#), [H05C](#); means for allowing passage through fences, barriers, or the like [E06B11/00](#))

- E04H17/00A . [N: Anti-climbing devices, e.g. fixed or rotary spikes] [N1002]

- E04H17/02 . Wire fencing ([E04H17/14](#) takes precedence)
- E04H17/04 . . using wire, barbed wire, wire mesh, toothed strips, or the like; Coupling means therefor ([wire netting B21F27/00](#); [other metallic fabrics see the relevant classes](#); [N: turnbuckles [F16G11/12](#)])

- E04H17/06 . . Parts for wire fences
- E04H17/06A . . . [N: Fence liners; Vegetation prevention barriers] [N9506]
- E04H17/06B . . . [N: Slots for chain link fences] [N9506]
- E04H17/08 . . . Anchoring means therefor, e.g. specially-shaped parts entering the ground; Struts or the like ([for towers or masts E04H12/20](#); [sockets for posts E04H12/22](#))

- [N: **Note**
Parts entering the ground are classified in [E04H12/22](#)
]

- E04H17/10 . . characterised by the way of connecting wire to posts; Droppers
- E04H17/12 . . . the wire being placed in slots, grooves, or the like

- E04H17/14 . Fences constructed of rigid elements, e.g. with posts, with additional wire fillings
- E04H17/14A . . [N: using building blocks]
- E04H17/14B . . [N: using woven slats]
- E04H17/14C . . [N: Post-and-rail fences without vertical cross-members]
- E04H17/14D . . [N: Post-and-rail fences with vertical cross-members]
- E04H17/14D1 . . . [N: Connections between rail and post]
- E04H17/14E . . [N: Picket fences]
- E04H17/14E1 . . . [N: with separate pickets attached to the side of the horizontal members]
- E04H17/14E1A [N: Connections between horizontal members and post]
- E04H17/14E2 . . . [N: with separate pickets going through the horizontal members]
- E04H17/14E2A [N: Connections between horizontal members and post]
- E04H17/16 . . using prefabricated panel-like elements, e.g. wired frames
- E04H17/16A . . . [N: using wired panels without frame]

- E04H17/16B . . . [N: using wired panels with frame]
 - E04H17/16C . . . [N: using panels with frame ([E04H17/16B](#) takes precedence)]
 - E04H17/16C1 [N: with cross-members]
 - E04H17/16D . . . [N: using panels without frames and fitted in grooves of posts]
 - E04H17/18 . . . Corrals, i.e. easily transportable or demountable enclosures
 - E04H17/20 . . Posts therefor
 - E04H17/22 . . . Anchoring means therefor, e.g. specially-shaped parts entering the ground; Struts or the like ([for towers or masts E04H12/20](#); [sockets for posts E04H12/22](#))
- [N: **Note**
Parts entering the ground are classified in [E04H12/22](#)
]
- E04H17/24 . . Connections for attaching additional wire to frames, posts or railings
 - E04H17/26 . Devices for erecting or removing fences [N: ([hand-operated hammers having the impact head in form of a sleeve slidable on a shaft B25D1/16](#))]
 - E04H17/26B . . [N: for post and wire handling]
 - E04H17/26B1 . . . [N: for erecting posts ([pile driving E02D7/00](#))] [C0004]
 - E04H17/26B2 . . . [N: for removing posts]
 - E04H17/26B3 . . . [N: for stretching or winding wire or wire mesh]
 - E04H17/26C . . [N: Hand tools for wiring fences, e.g. tying or splicing tools ([E04H17/26B3](#) takes precedence)]