

CPC**COOPERATIVE PATENT CLASSIFICATION****E06C**

LADDERS ([E04F 11/00](#) takes precedence; step-stools [A47C 12/00](#); adaptation of ladders to use on ships [B63B](#) , to use on aircraft [B64](#) ; scaffolding [E04G](#))

E06C 1/00

Ladders in general (mounted on undercarriages or vehicles [E06C 5/00](#); permanently attached to fixed structures [E06C 9/00](#))

E06C 1/005

- . { Ladders in use as furniture or ladders in relation to furniture, e.g. in cupboards (step-stools, chairs or benches requiring conversion between the step and seat functions [A47C 12/02](#)) }

E06C 1/02

- . with rigid longitudinal member or members

E06C 1/04

- .. Ladders for resting against objects, e.g. walls poles, trees (supports for ladder heads [E06C 7/48](#))

E06C 1/06

- ... in one piece

E06C 1/08

- ... multi-part { ([E06C 1/32](#) takes precedence) }

E06C 1/10

- Sections fitted end to end

E06C 1/12

- extensible, e.g. telescopic

E06C 1/125

- { with tubular longitudinal members nested within each other }

E06C 1/14

- .. Ladders capable of standing by themselves

E06C 1/16

- ... with {hinged} struts which rest on the ground (with struts rigid with the ladder [E06C 1/24](#); having platforms [E06C 1/39](#))

E06C 1/18

- with supporting struts formed as ladders { ([E06C 1/32](#) takes precedence) }

E06C 1/20

- with supporting struts formed as poles { (stabilising struts [E06C 7/423](#)) }

E06C 1/22

- with extensible, e.g. telescopic, ladder parts or struts

E06C 1/24

- ... {Non-hinged} free-standing ladders

E06C 1/26

- in one piece

E06C 1/28

- multi-part (with movable supporting struts formed as ladders [E06C 1/18](#))

E06C 1/30

- extensible, e.g. telescopic

E06C 1/32

- .. Ladders with a strut which is formed as a ladder and can be secured in line with the ladder

E06C 1/34

- .. Ladders attached to structures, such as windows, cornices, poles, or the like ({[E06C 9/12](#) takes precedence} ; ladders permanently fastened to buildings [E06C 9/00](#), {e.g. climbing irons [E06C 9/04](#) })

E06C 1/345

- ... { specially adapted to be installed parallel to the roof surface }

E06C 1/36

- ... Ladders suspendable by hooks or the like { (ladderhooks [E06C 7/505](#)) }

E06C 1/38

- .. Special constructions of ladders, e.g. ladders with more or less than two longitudinal members, ladders with movable rungs or other treads, longitudinally-foldable ladders

E06C 1/381

- ... {Ladders with rungs or treads attached only to one rigid longitudinal member }

E06C 1/382

- ... { Tripod ladders }

E06C 1/383

- ... Foldable ladders in which the longitudinal members are brought together on folding { ([E06C 9/085](#) takes precedence) }

E06C 1/3835

- { having collapsible steps comprising a hinge in their central part }

- E06C 1/387 . . . having tip-up steps
- E06C 1/39 . . . Ladders having platforms; Ladders changeable into platforms ([platforms for use on ladders E06C 7/16](#))
- E06C 1/393 Ladders having platforms foldable with the ladder
- E06C 1/397 . . . characterised by having wheels, rollers, or runners

- E06C 1/52 . with non-rigid longitudinal members
- E06C 1/525 . . { [made of a continuous strip of material](#) }
- E06C 1/54 . . of the lazy-tongs type
- E06C 1/56 . . Rope or chain ladders

- E06C 1/58 . with both rigid and non-rigid longitudinal members

- E06C 5/00** **Ladders characterised by being mounted on undercarriages or vehicles Securing ladders on vehicles** ([ladders having wheels, rollers, or runners E06C 1/397](#)) {[ladders on boats B63B 27/14](#) }

- E06C 5/02 . with rigid longitudinal members
- E06C 5/04 . . capable of being elevated or extended {[Fastening means during transport, e.g. mechanical, hydraulic](#) }
- E06C 5/06 . . . by piston and cylinder, or equivalent means, operated by a pressure medium
- E06C 5/08 derived directly from a pressure reservoir
- E06C 5/10 charged by a pump or compressor driven by the motor of the vehicle or another motor on the vehicle
- E06C 5/12 derived directly from a pump or compressor
- E06C 5/14 driven by the motor of the vehicle or another motor on the vehicle
- E06C 5/16 . . . using mechanical transmission only, with or without fluid or other non-mechanical couplings or clutches
- E06C 5/18 using power from the motor of the vehicle or another motor
- E06C 5/20 using hand-power ([hand-operated extending means carried by the ladder E06C 7/04](#))
- E06C 5/22 . . . by, or with the assistance of, springs ([E06C 5/06](#), [E06C 5/16](#) take precedence)
- E06C 5/24 . . Dismounting ladders from vehicles {[or supporting means](#) }

- E06C 5/26 . with non-rigid longitudinal members
- E06C 5/28 . . of the lazy-tongs type
- E06C 5/30 . . formed of links which reinforce themselves against each other

- E06C 5/32 . Accessories {[e.g. brakes on ladders](#) }
- E06C 5/34 . . Indicating devices
- E06C 5/36 . . Safety devices against slipping or falling of ladders; Safety device against overloading ladders
- E06C 5/38 . . Devices for blocking the springs of the vehicle; Devices for supporting the undercarriage directly from the ground
- E06C 5/40 . . Devices for canting ladders laterally
- E06C 5/42 . . Devices for altering inclination; Latching devices therefor {[Balancing arrangements](#) }

- E06C 5/44 . . Other accessories on ladders, e.g. acoustical signalling devices, dismountable switchboards

- E06C 7/00 Component parts, supporting parts, or accessories**

- E06C 7/003 . {Indicating devices, e.g. user warnings or inclinators }
- E06C 7/006 . {Devices for preventing access }
- E06C 7/02 . Extending means (for ladders mounted on undercarriages or vehicles [E06C 5/00](#))
- E06C 7/04 . . Hand-operated extending means carried by the ladder

- E06C 7/06 . Securing devices or hooks for parts of extensible ladders

- E06C 7/08 . Special construction of longitudinal members, or rungs or other treads
- E06C 7/081 . . { Rungs or other treads comprising anti-slip features }
- E06C 7/082 . . { Connections between rungs or treads and longitudinal members }
- E06C 7/083 . . . { Bracket type connection }
- E06C 7/084 . . . { Rungs comprising projecting tabs or flanges }
- E06C 7/085 . . . { achieved by deforming the rung or the stile; [E06C 7/084](#) takes precedence }
- E06C 7/086 . . . { with a connecting piece inserted in a hollow rung; [E06C 7/088](#) takes precedence }
- E06C 7/087 . . . { with a connecting piece installed around the rung }
- E06C 7/088 . . . { with tie rods parallel to the rungs }

- E06C 7/10 . Reinforcements for ladders

- E06C 7/12 . Lifts or other hoisting devices on ladders

- E06C 7/14 . Holders for pails or other equipment on or for ladders
- E06C 7/143 . . { specially adapted to be inserted into the end of a hollow rung }
- E06C 7/146 . . { made from wire; [E06C 7/143](#) takes precedence }

- E06C 7/16 . Platforms on, or for use on, ladders, e.g. liftable or lowerable platforms (aspects relating to the lifting [B66F](#))
- E06C 7/165 . . { specially adapted to be fixed to only one rung }

- E06C 7/18 . Devices for preventing persons from falling (life-saving belts [A62B 1/16](#)) {Safety devices for window-cleaners [A47L 3/00](#) }
- E06C 7/181 . . {Additional gripping devices, e.g. handrails }
- E06C 7/182 . . . {situated at the top of the ladder }
- E06C 7/183 . . . {situated along the ladder }
- E06C 7/185 . . {Devices providing a back support to a person on the ladder, e.g. cages }
- E06C 7/186 . . {Rail or rope for guiding a safety attachment, e.g. a fall arrest system }
- E06C 7/187 . . . {Guiding rail }
- E06C 7/188 . . {Accessories for temporary stabilising a ladder, e.g. temporary attaching devices (ladder feet or struts [E06C 7/42](#), ladder heads [E06C 7/48](#)) }

- E06C 7/42 . Ladder feet; Supports therefor (for scaffold elements [E04G 5/02](#))
- E06C 7/423 . . {Ladder stabilising struts }
- E06C 7/426 . . { Height adjustable supports for receiving both ladder feet }
- E06C 7/44 . . Means for mounting ladders on uneven ground
- E06C 7/46 . . Non-skid equipment

- E06C 7/48 . Ladder heads; Supports for heads of ladders for resting against objects {ladders attachable to structures such as poles [E06C 1/34](#) }
- E06C 7/482 . . { Supports specially adapted for resting the ladder against or in a corner }
- E06C 7/484 . . { Supports specially adapted for use with a wall opening, e.g. windows }
- E06C 7/486 . . { Supports specially adapted to support a ladder on a gutter }
- E06C 7/488 . . { Supports specially adapted to attach a ladder to a ridge of a roof }

- E06C 7/50 . Joints or other connecting parts
- E06C 7/505 . . { Anchors being adapted to fix a ladder to a vertical structure, e.g. ladder hooks }

- E06C 9/00** **Ladders characterised by being permanently attached to fixed structures, e.g. fire escapes** (movable stairways [E04F 11/04](#); {means for facilitating access to swimming pools [E04H 4/144](#) })

- E06C 9/02 . rigidly mounted
- E06C 9/04 . . in the form of climbing irons or the like { (built-in climbing irons for poles [A63B 27/00](#); built-in climbing devices as construction element [E04F 11/00](#)) }

- E06C 9/06 . movably mounted
- E06C 9/08 . . with rigid longitudinal members
- E06C 9/085 . . . {ladders unfolded in the direction of the longitudinal members }
- E06C 9/10 . . . forming part of a building, such as a balcony grid, window grid, or other window part {with non-rigid longitudinal members [E06C 9/14](#) }
- E06C 9/12 . . . laterally displaceable
- E06C 9/14 . . with non-rigid longitudinal members, e.g. rope or chain ladders, ladders of the lazy-tongs type