

**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](#) )

**Guidance heading:****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