

**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	<ul style="list-style-type: none"> <li>• . Devices for canting ladders laterally</li> </ul>
E06C 5/42	<ul style="list-style-type: none"> <li>• . Devices for altering inclination; Latching devices therefor {Balancing arrangements}</li> </ul>
E06C 5/44	<ul style="list-style-type: none"> <li>• . Other accessories on ladders, e.g. acoustical signalling devices, dismountable switchboards</li> </ul>
<b>E06C 7/00</b>	<b>Component parts, supporting parts, or accessories</b>
E06C 7/003	<ul style="list-style-type: none"> <li>• {Indicating devices, e.g. user warnings or inclinators}</li> </ul>
E06C 7/006	<ul style="list-style-type: none"> <li>• {Devices for preventing access}</li> </ul>
E06C 7/02	<ul style="list-style-type: none"> <li>• Extending means (for ladders mounted on undercarriages or vehicles <a href="#">E06C 5/00</a>)</li> </ul>
E06C 7/04	<ul style="list-style-type: none"> <li>• . Hand-operated extending means carried by the ladder</li> </ul>
E06C 7/06	<ul style="list-style-type: none"> <li>• Securing devices or hooks for parts of extensible ladders</li> </ul>
E06C 7/08	<ul style="list-style-type: none"> <li>• Special construction of longitudinal members, or rungs or other treads</li> </ul>
E06C 7/081	<ul style="list-style-type: none"> <li>• . {Rungs or other treads comprising anti-slip features}</li> </ul>
E06C 7/082	<ul style="list-style-type: none"> <li>• . {Connections between rungs or treads and longitudinal members}</li> </ul>
E06C 7/083	<ul style="list-style-type: none"> <li>• . . {Bracket type connection}</li> </ul>
E06C 7/084	<ul style="list-style-type: none"> <li>• . . {Rungs comprising projecting tabs or flanges}</li> </ul>
E06C 7/085	<ul style="list-style-type: none"> <li>• . . {achieved by deforming the rung or the stile (<a href="#">E06C 7/084</a> takes precedence)}</li> </ul>
E06C 7/086	<ul style="list-style-type: none"> <li>• . . {with a connecting piece inserted in a hollow rung (<a href="#">E06C 7/088</a> takes precedence)}</li> </ul>
E06C 7/087	<ul style="list-style-type: none"> <li>• . . {with a connecting piece installed around the rung}</li> </ul>
E06C 7/088	<ul style="list-style-type: none"> <li>• . . {with tie rods parallel to the rungs}</li> </ul>
E06C 7/10	<ul style="list-style-type: none"> <li>• Reinforcements for ladders</li> </ul>
E06C 7/12	<ul style="list-style-type: none"> <li>• Lifts or other hoisting devices on ladders</li> </ul>
E06C 7/14	<ul style="list-style-type: none"> <li>• Holders for pails or other equipment on or for ladders</li> </ul>
E06C 7/143	<ul style="list-style-type: none"> <li>• . {specially adapted to be inserted into the end of a hollow rung}</li> </ul>
E06C 7/146	<ul style="list-style-type: none"> <li>• . {made from wire (<a href="#">E06C 7/143</a> takes precedence)}</li> </ul>
E06C 7/16	<ul style="list-style-type: none"> <li>• Platforms on, or for use on, ladders, e.g. liftable or lowerable platforms (aspects relating to the lifting <a href="#">B66F</a>)</li> </ul>
E06C 7/165	<ul style="list-style-type: none"> <li>• . {specially adapted to be fixed to only one rung}</li> </ul>
E06C 7/18	<ul style="list-style-type: none"> <li>• Devices for preventing persons from falling (life-saving belts <a href="#">A62B 1/16</a> {Safety devices for window-cleaners <a href="#">A47L 3/00</a>})</li> </ul>
E06C 7/181	<ul style="list-style-type: none"> <li>• . {Additional gripping devices, e.g. handrails}</li> </ul>
E06C 7/182	<ul style="list-style-type: none"> <li>• . . {situated at the top of the ladder}</li> </ul>
E06C 7/183	<ul style="list-style-type: none"> <li>• . . {situated along the ladder}</li> </ul>
E06C 7/185	<ul style="list-style-type: none"> <li>• . {Devices providing a back support to a person on the ladder, e.g. cages}</li> </ul>
E06C 7/186	<ul style="list-style-type: none"> <li>• . {Rail or rope for guiding a safety attachment, e.g. a fall arrest system}</li> </ul>
E06C 7/187	<ul style="list-style-type: none"> <li>• . . {Guiding rail}</li> </ul>
E06C 7/188	<ul style="list-style-type: none"> <li>• . {Accessories for temporary stabilising a ladder, e.g. temporary attaching devices (ladder feet or struts <a href="#">E06C 7/42</a>, ladder heads <a href="#">E06C 7/48</a>)}</li> </ul>
E06C 7/42	<ul style="list-style-type: none"> <li>• Ladder feet; Supports therefor (for scaffold elements <a href="#">E04G 5/02</a>)</li> </ul>

- 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