

E06C

LADDERS (E04F11/00 takes precedence; step-stools A47C12/00 ; adaptation of ladders to use on ships B63B, to use on aircraft B64; scaffolding E04G)

Definition statement

This subclass/group covers:

Ladders in general, ladders mounted on undercarriages or vehicles, component parts or accessories of ladders, and ladders in relation with buildings

References relevant to classification in this group

This subclass/group does not cover:

Step-tools	A47C 12/00
Adaptation of ladders to use on ships	B63B
Adaptation of ladders to use on aircrafts	B64
Scaffolding	E04G
Staircases	E04F 11/00
Ladders for special structures, e.g. ladders for swimming- pools	E04H

E06C 1/00

Ladders in general (mounted on undercarriages or vehicles E06C5/00; permanently attached to fixed structures E06C9/00)

Definition statement

This subclass/group covers:

Ladders in general with rigid longitudinal members, e.g. ladders for resting against objects or ladders capable of standing by themselves, and ladders in general with non-rigid longitudinal members, e.g. rope or chain ladders.

References relevant to classification in this group

This subclass/group does not cover:

Hunting stands	A01M 31/00
Ladders on boats, ships	B63B 27/14
Staircases	E04F 11/00
Loft ladders	E04F 11/04
Swimming pool ladders	E04H 4/144
Ladders mounted on undercarriages or vehicles	E06C 5/00
Ladders permanently attached to fixed structures	E06C 9/00

[N: 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 1/005

Definition statement

This subclass/group covers:

Ladders either fixedly or foldably attached to furniture and eventually storable into furniture

References relevant to classification in this group

Attention is drawn to the following places, which may be of interest for search:

This group does not cover

Step-stools, chairs or benches requiring conversion between the step and seat functions	A47C 12/02
-----------------------------------------------------------------------------------------	----------------------------

E06C 1/04

Ladders for resting against objects, e.g. walls, poles, trees (supports for ladder heads E06C7/48)

Definition statement

This subclass/group covers:

Ladders specially adapted for resting against objects, e.g. walls poles, trees

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ladder heads, as accessories for ladders	E06C 7/48
------------------------------------------	---------------------------

E06C 1/08

multi-part [N: (E06C1/32 takes precedence)]

Definition statement

This subclass/group covers:

Ladders comprising a series of longitudinal sections fitted substantially end to end and/or ladders being extensible in their length by way of sliding means only (e.g. telescopic ladders)

References relevant to classification in this group

This subclass/group does not cover:

Ladders with a strut which is formed as a ladder and can be secured in line with the ladder (i.e. ladders having a strut formed as a ladder, hinged with the ladder and securable in line with the ladder); Longitudinally folded ladders that can be extended in line by unfolding	E06C 1/32
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------

E06C 1/12

extensible, e.g. telescopic

Informative references

Attention is drawn to the following places, which may be of interest for search:

Extending means for ladders	E06C 7/02
-----------------------------	---------------------------

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

E06C 1/16

with [N: hinged] struts which rest on the ground (with struts rigid with the ladder E06C1/24; having platforms E06C1/39)

References relevant to classification in this group

This subclass/group does not cover:

Non-hinged free-standing ladders, e.g. ladders with struts rigid with the ladder	E06C 1/24
Ladders having platforms	E06C 1/39

E06C 1/18

with supporting struts formed as ladders

References relevant to classification in this group

This subclass/group does not cover:

Ladders capable of standing by themselves and with telescopic supporting struts formed as ladders	E06C 1/22
Ladders with a strut which is formed as a ladder and can be secured in line with the ladder	E06C 1/32

E06C 1/20

with supporting struts formed as poles [N: (stabilising struts E06C7/423)

Definition statement

This subclass/group covers:

Ladders capable of standing by themselves and with supporting struts formed

as poles as part of the ladder.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ladders having stabilising struts	E06C 7/423
-----------------------------------	----------------------------

E06C 1/22

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

Definition statement

This subclass/group covers:

Ladders capable of standing by themselves and with telescopic supporting struts formed as ladders.

E06C 1/24

[N: Non-hinged] free standing ladders

Special rules of classification within this group

Ladders in [E06C 1/24](#) to [E06C 1/28](#) having extensible parts should also be classified in [E06C 1/30](#)

E06C 1/32

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

Definition statement

This subclass/group covers:

Ladders with a strut which is formed as a ladder and can be secured in line with the ladder, e.g. ladders having a strut formed as a ladder and hinged with the ladder, that can be secured in line with the ladder. This group also covers longitudinally folded ladders that can be extended in line by unfolding.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Hinges	E05D
--------	----------------------

Ladders in general capable of standing by themselves, with hinged struts	E06C 1/16
--------------------------------------------------------------------------	---------------------------

E06C 1/34

Ladders attached to structures, such as windows, cornices, poles, or the like ([N: E06C9/12 takes precedence]; ladders permanently fastened to buildings E06C9/00, [N: e.g. climbing irons E06C9/04])

Definition statement

This subclass/group covers:

Ladders specially adapted by using intrinsic means (i.e. the means being part of the ladder) for being attached to or to properly rest against structures, such as windows, cornices, poles or the like

References relevant to classification in this group

This subclass/group does not cover:

Ladders permanently fastened to buildings	E06C 9/00
Climbing irons	E06C 9/04
Ladders permanently fastened to buildings, and laterally displaceable	E06C 9/12

Informative references

Attention is drawn to the following places, which may be of interest for search:

Built-in climbing irons for poles	A63B 27/00
Ladder heads, as accessories for ladders	E06C 7/48

E06C 1/36

Ladders suspendable by hooks or the like [N: (ladderhooks

E06C7/50)]

Definition statement

This subclass/group covers:

Ladders suspendable by hooks, e.g. ladders having a hook or grab at their top

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ladderhooks, as accessories for a ladder, e.g. hooks to be fixed on a wall for suspending a ladder vertically or horizontally against a wall	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

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ladders on vehicles formed of links which reinforce themselves against each other	E06C 5/30
Special constructions of longitudinal members, or rungs or other treads	E06C 7/08

E06C 1/383

Foldable ladders in which the longitudinal members are brought together on folding [N: (E06C9/085 takes precedence)]

Definition statement

This subclass/group covers:

Foldable ladders in which the longitudinal members are brought together on folding, e.g. ladders in which the rungs are hinged on the longitudinal members, or the hinges are foldable to allow the longitudinal members to be

brought together

References relevant to classification in this group

This subclass/group does not cover:

Ladders in general capable of standing by themselves, with hinged struts	E06C 1/16
Ladders with a strut which is formed as a ladder and can be secured in line with the ladder, e.g. ladders having a strut formed as a ladder and hinged with the ladder, that can be secured in line with the ladder	E06C 1/32
Ladders permanently attached to fixed structures in which the longitudinal members are brought together on folding	E06C 9/085

E06C 1/387

having tip-up steps

Definition statement

This subclass/group covers:

Ladders having tip-up steps, e.g. ladders having rungs collapsible in-line with the ladder on folding

E06C 1/39

Ladders having platforms; Ladders changeable into platforms (platforms for use on ladders E06C7/16)

References relevant to classification in this group

This subclass/group does not cover:

Lifts on ladders, as accessories for ladders	E06C 7/12
Platforms for use on ladders, as accessories	E06C 7/16

Informative references

Attention is drawn to the following places, which may be of interest for search:

Hunting stands	A01M 31/00
Scaffolds	E04G

E06C 1/397

characterised by having wheels, rollers, or runners

References relevant to classification in this group

This subclass/group does not cover:

Ladders being mounted on undercarriages or vehicles	E06C 5/00
Ladders permanently fastened to buildings, and laterally displaceable, e.g. library ladders	E06C 9/12

E06C 1/52

with non-rigid longitudinal members

Definition statement

This subclass/group covers:

Ladders in general with non-rigid longitudinal members, e.g. lazy-tongs type, rope or chain ladders

References relevant to classification in this group

This subclass/group does not cover:

Ladders with non-rigid longitudinally members permanently attached to fixed structures and movably mounted, e.g. rope or chain ladders	E06C 9/14
----------------------------------------------------------------------------------------------------------------------------------------	---------------------------

E06C 1/54

of the lazy-tongs type

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ladders of the lazy-tongs type mounted on vehicles	E06C 5/28
----------------------------------------------------	---------------------------

E06C 1/56

Rope or chain ladders

Informative references

Attention is drawn to the following places, which may be of interest for search:

Rope or chain ladders permanently attached to buildings	E06C 9/14
---------------------------------------------------------	---------------------------

E06C 1/58

with both rigid and non-rigid longitudinal members

Definition statement

This subclass/group covers:

Ladders in general having both rigid and non-rigid longitudinal members, e.g. ladders comprising sections in which the longitudinal members are rigid and sections in which the longitudinal members are not rigid

E06C 5/00

Ladders characterised by being mounted on undercarriages or vehicles Securing ladders on vehicles (ladders having wheels, rollers, or runners E06C1/397) [N: ladders on boats B63B27/14]

Definition statement

This subclass/group covers:

Ladders mounted on undercarriages or ground vehicles and having rigid longitudinal members, or ladders mounted on undercarriages or ground vehicles and having non-rigid longitudinal members, and accessories specially adapted therefor.

References relevant to classification in this group

This subclass/group does not cover:

Arrangements of steps or ladders facilitating access to or on a vehicle; retractable	B60R 3/00 ; B60R 3/02
Steps for railway vehicles	B61D 23/00
Ladders on boats or ships	B63B 27/14
Ladders having wheels, rollers, or runners	E06C 1/397

Informative references

Attention is drawn to the following places, which may be of interest for search:

Fittings on vehicle exterior to carry loads	B60R 9/00
Cranes	B66C
Lifting devices	B66F

E06C 5/02

with rigid longitudinal members

References relevant to classification in this group

This subclass/group does not cover:

Running boards for vehicles; for vehicle tops	B60R 3/002 ; B60R 3/005
-----------------------------------------------	---------------------------------------------------------

E06C 5/04

capable of being elevated or extended, [N: Fastening means during transport, e.g. mechanical, hydraulic]

Informative references

Attention is drawn to the following places, which may be of interest for search:

Retractable steps or ladders facilitating access to vehicles	B60R 3/02
Carriers for ladders on vehicle roofs	B60R 9/0423 ; B60R 9/0485
Fastening means on vehicle exterior	B60R 9/00
Lifting devices for movable platforms, e.g. on vehicles	B66F 11/04

E06C 5/06

by piston and cylinder, or equivalent means, operated by a pressure medium

Definition statement

This subclass/group covers:

Ladders having elevating assist, by piston and cylinder, or equivalent means, operated by a pressure medium

Informative references

Attention is drawn to the following places, which may be of interest for search:

Lifting devices for movable platforms suspended from booms, e.g. on vehicles	B66F 11/044
Pistons; Cylinders; Pressure vessels	F16J

E06C 5/20

using hand-power (hand-operated extending means carried by the ladder E06C7/04)

Informative references

Attention is drawn to the following places, which may be of interest for search:

Hand-operated extending means	E06C 7/04
-------------------------------	---------------------------

carried by the ladder	
-----------------------	--

E06C 5/22

by, or with the assistance of, springs (E06C5/06, E06C5/16 take precedence)

References relevant to classification in this group

This subclass/group does not cover:

Ladders mounted on vehicles, with rigid longitudinal members, and capable of being elevated or extended by piston and cylinder or equivalent means	E06C 5/06
Ladders mounted on vehicles, with rigid longitudinal members, and capable of being elevated or extended using mechanical transmission	E06C 5/16

E06C 5/24

Dismounting ladders from vehicles [N: or supporting means]

Informative references

Attention is drawn to the following places, which may be of interest for search:

Carriers for ladders on vehicles facilitating loading or unloading	B60R 9/0423
--------------------------------------------------------------------	-----------------------------

E06C 5/26

with non-rigid longitudinal members

Definition statement

This subclass/group covers:

Ladders mounted on undercarriages or vehicles and having non-rigid longitudinal members

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ladders in general with non-rigid longitudinal members; Ladders in general with both rigid and non-rigid longitudinal members	E06C 1/52 ; E06C 1/58
Ladders permanently attached to fixed structures, with non-rigid longitudinal members	E06C 9/14

E06C 5/28

of the lazy-tongs type

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ladder in general of the lazy-tongs type	E06C 1/54
------------------------------------------	---------------------------

E06C 5/32

Accessories, e.g. brakes on ladders [N: e.g. brakes on ladders]

Definition statement

This subclass/group covers:

Safety devices and accessories for use with or on ladders mounted on undercarriages or vehicles

Informative references

Attention is drawn to the following places, which may be of interest for search:

Accessories on ladders in general	E06C 7/00
-----------------------------------	---------------------------

E06C 5/34

Indicating devices

Informative references

Attention is drawn to the following places, which may be of interest for search:

Indicating devices for ladders in general	E06C 7/003
-------------------------------------------	----------------------------

E06C 5/36

Safety devices against slipping or falling of ladders; Safety device against overloading ladders

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for preventing persons from falling from ladders in general	E06C 7/18
---------------------------------------------------------------------	---------------------------

E06C 5/38

Devices for blocking the springs of the vehicle; Devices for supporting the undercarriage directly form the ground

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ground-engaging vehicle fittings for supporting, lifting, or manoeuvring the vehicle	B60S 9/00
Hydraulic supports for cranes	B66C 23/80

E06C 5/44

Other accessories on ladders, e.g. acoustical signalling devices, dismantable switchboards

Informative references

Attention is drawn to the following places, which may be of interest for search:

Indicating devices for ladders in general, e.g. user warnings or inclinators	E06C 7/003
Devices for preventing access on ladders in general	E06C 7/006

E06C 7/00

Component parts, supporting parts, or accessories

Definition statement

This subclass/group covers:

Component parts, supporting parts, or accessories for ladders in general, e.g. lifts or hoisting devices on ladders, holders for pails or other equipment on ladders, accessorial platforms on ladders, ladder heads and ladder feet.

E06C 7/003

[N: Indicating devices, e.g. user warnings or inclinators]

Informative references

Attention is drawn to the following places, which may be of interest for search:

Indicating devices for ladders mounted on undercarriages or vehicles; Acoustical signalling devices for ladders mounted on undercarriages or vehicles	E06C 5/34 ; E06C 5/44
-------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------

E06C 7/02

Extending means (for ladders mounted on undercarriages or vehicles E06C5/00)

References relevant to classification in this group

This subclass/group does not cover:

Extending means for ladders mounted on undercarriages or vehicles	E06C 5/00
-------------------------------------------------------------------	---------------------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

Extensible, telescopic ladders in general	E06C 1/12
-------------------------------------------	---------------------------

E06C 7/04

Hand-operated extending means carried by the ladder

Informative references

Attention is drawn to the following places, which may be of interest for search:

Hand-operated extending means for ladders mounted on vehicles	E06C 5/20
---------------------------------------------------------------	---------------------------

E06C 7/06

Securing devices or hooks for parts of extensible ladders

Informative references

Attention is drawn to the following places, which may be of interest for search:

Extensible ladders in general	E06C 1/12
-------------------------------	---------------------------

E06C 7/08

Special construction of longitudinal members, or rungs or other treads

Definition statement

This subclass/group covers:

Constructive details of longitudinal members, rungs or other threads, e.g. rungs styles connections

Informative references

Attention is drawn to the following places, which may be of interest for search:

Special constructions of ladders	E06C 1/38
----------------------------------	---------------------------

Reinforcements for ladders	E06C 7/10
----------------------------	---------------------------

E06C 7/12

Lifts or other hoisting devices on ladders

Informative references

Attention is drawn to the following places, which may be of interest for search:

Mobile or transportable lifts	B66B 9/16
Lifting devices in general	B66F
Ladders having platforms	E06C 1/39
Platforms for use on ladders, as ladder accessories	E06C 7/16

E06C 7/14

HOLDERS for pails or other equipment on or for ladders

Informative references

Attention is drawn to the following places, which may be of interest for search:

Holders for paint cans	B44D 3/14
Platforms for use on ladders, as ladder accessories	E06C 7/16

E06C 7/16

Platforms on, or for use on, ladders, e.g. liftable or lowerable platforms (aspects relating to the lifting B66F)

Informative references

Attention is drawn to the following places, which may be of interest for search:

Mobile or transportable lifts	B66B 9/16
-------------------------------	---------------------------

Lifting devices in general	B66F
Ladders having platforms	E06C 1/39
Lifts or other hoisting devices on ladders	E06C/12

E06C 7/18

[N: Additional gripping devices, e.g. handrails]

Informative references

Attention is drawn to the following places, which may be of interest for search:

Safety devices for window cleaners	A47L 3/00
Life-saving belts	A62B 1/16
Safety devices against falling of ladder supported on a vehicle	E06C 5/36

E06C 7/186

[N: Rail or rope for guiding a safety attachment, e.g. a fall arrest system]

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for lowering persons from buildings	A62B 1/06
Fall arresting devices	A62B 35/04

E06C 7/188

[N: Accessories for temporary stabilising a ladder, e.g. temporary attaching devices (ladder feet or struts E06C7/42, ladder heads E06C7/48)

References relevant to classification in this group

This subclass/group does not cover:

Ladder feet or struts	E06C 7/42
Ladder heads	E06C 7/48

E06C 7/42

Ladder feet; Supports therefor (for scaffold elements E04G5/02)

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ladder feet for scaffoldings	E04G 5/02
------------------------------	---------------------------

E06C 7/423

[N: Ladder stabilising struts]

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ladder having struts formed as poles	E06C 1/20
--------------------------------------	---------------------------

E06C 7/44

Means for mounting ladders on uneven ground

Definition statement

This subclass/group covers:

Means for mounting ladders on uneven ground, i.e. means for mounting ladders on a staircase

E06C 7/46

Non-skid equipment

Definition statement

This subclass/group covers:

Non-skid equipment for ladder feet, e.g. anchor in the ground

E06C 7/48

Ladder heads; Supports for heads of ladders for resting against objects [N: ladders attachable to structures such as poles E06C1/34]

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ladders attached specially adapted to be attached to structures like windows, poles, cornices	E06C 1/34
-----------------------------------------------------------------------------------------------	---------------------------

E06C 7/50

Joints or other connecting parts

Definition statement

This subclass/group covers:

Joints or other connecting parts for fixing ladders to each other or to construction parts, e.g. ladderhooks to be fixed on a wall to suspend a ladder vertically or horizontally against a wall. Hinges are not considered here to be connections.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ladders having hinges	E06C 1/32 , E06C 1/16
-----------------------	-------------------------------------------------------

E06C 9/00

Ladders characterised by being permanently attached to fixed structures, e.g. fire escapes (movable stairways E04F11/04; [N: means for facilitating access to swimming pools E04H4/144])

Definition statement

This subclass/group covers:

Ladders permanently attached to fixed structures, either rigidly mounted, e.g. in the form of climbing irons, or movably mounted, e.g. having rigid longitudinal members and being laterally displaceable, or having non-rigid longitudinal members like a rope or chain escape ladder.

References relevant to classification in this group

This subclass/group does not cover:

Staircases	E04F 11/00
Means for facilitating access to swimming pools	E04H 4/144

Informative references

Attention is drawn to the following places, which may be of interest for search:

Movable stairways	E04F 11/04
-------------------	----------------------------

E06C 9/04

in the form of climbing irons or the like [N: (built-in climbing irons for poles A63B27/00; built-in climbing devices as construction element E04F11/00)]

References relevant to classification in this group

This subclass/group does not cover:

Built-in climbing irons for poles	A63B 27/00
Built-in climbing devices as construction element, e.g. staircases	E04F 11/00

E06C 9/085

[N: ladders unfolded in the direction of the longitudinal members]

Definition statement

This subclass/group covers:

Ladders permanently attached to fixed structures in which the longitudinal members can be brought together, e.g. ladders in which the rungs are hinged on the longitudinal members

Informative references

Attention is drawn to the following places, which may be of interest for search:

Foldable general ladders in which the longitudinal members are brought together on folding	E06C 1/383
--------------------------------------------------------------------------------------------	----------------------------

E06C 9/10

forming part of a building, such as a balcony grid, window grid, or other window part [N: with non-rigid longitudinal members E06C9/14]

References relevant to classification in this group

This subclass/group does not cover:

Ladders forming part of a building with non-rigid longitudinal members	E06C 9/14
------------------------------------------------------------------------	---------------------------

E06C 9/12

laterally displaceable

Definition statement

This subclass/group covers:

Ladders movably mounted on a fixed structure and laterally displaceable, e.g. library ladders

E06C 9/14

with non-rigid longitudinal members, e.g. rope or chain ladders, ladders of the lazy-tongs type

Informative references

Attention is drawn to the following places, which may be of interest for search:

Ladders in general with non rigid longitudinal members	E06C 1/52
--------------------------------------------------------	---------------------------