

Title (en)
DOUBLE LADDER

Publication
EP 0033475 B1 19831130 (DE)

Application
EP 81100404 A 19810121

Priority

- DE 8002726 U 19800202
- DE 3003854 A 19800202
- DE 8013669 U 19800521
- DE 3019345 A 19800521
- DE 8025544 U 19800924
- DE 3035955 A 19800924

Abstract (en)
[origin: WO8102322A1] The double ladder comprises two pairs of uprights (301, 302) pivotingly connected about an axis (318) at their top and of which one pair is provided with cross-bars (306) forming steps, supported by girders (303). The cross-bars forming the steps (306) are located in horizontal planes when the up right are spaced from each other at the maximum and when the ladder rests on a horizontal surface. The steps (306) are pivotingly mounted on the girders (303) as well as on guides (311) extending parallel to the girders. When there is a maximum spacing between the uprights (301, 302), the girders (303) and the guides (311) form a support increasing the resistance to flexion and limiting the rotation to the steps with respect to the girders in the pivoting direction. On the side of the girders (303) opposite the other uprights (302), the steps (306) present cantilever generating, upon stepping, a rotation moment in the direction that brings the guides towards the girders. Further, the depth of the steps and the difference of height between two successive steps (306) are in the range of conventionnal dimensions for staircases.

IPC 1-7
E06C 1/387; **E06C 1/39**; **E06C 1/16**

IPC 8 full level
E06C 1/14 (2006.01); **E06C 1/16** (2006.01); **E06C 1/20** (2006.01); **E06C 1/383** (2006.01); **E06C 1/387** (2006.01); **E06C 1/39** (2006.01); **E06C 1/393** (2006.01)

CPC (source: EP US)
E06C 1/20 (2013.01 - EP US); **E06C 1/387** (2013.01 - EP US); **E06C 1/393** (2013.01 - EP US)

Cited by
CN109230136A; US6817447B1; US4539781A; DE3035955A1; EP0664371A1; FR2715186A1

Designated contracting state (EPC)
AT CH FR GB IT LI NL

DOCDB simple family (publication)
WO 8102322 A1 19810820; CA 1138392 A 19821228; EP 0033475 A1 19810812; EP 0033475 B1 19831130; EP 0033475 B2 19890503; JP S57500032 A 19820107; JP S6337237 B2 19880725; US 4421206 A 19831220

DOCDB simple family (application)
DE 8100024 W 19810129; CA 369819 A 19810130; EP 81100404 A 19810121; JP 50059981 A 19810129; US 22883381 A 19810127