

Title (en)

Metal ladder and method of manufacture thereof

Title (de)

Metalleiter und deren Herstellungsverfahren

Title (fr)

Echelle métallique et procédé de fabrication d'une telle échelle

Publication

EP 1762694 A3 20100120 (FR)

Application

EP 06291438 A 20060912

Priority

FR 0509346 A 20050913

Abstract (en)

[origin: EP1762694A2] The ladder (1), made from tubular metal rungs (4) and uprights (2, 3), has the ends of the rungs made with a smaller cross-section than their central sections, with stepped coupling zones between them. The rung ends have oblong cross-sections and are inserted through matching holes in the ladder uprights before being fixed in place by having their outer edges rolled or crimped. In addition, the outer surfaces of the rungs are grooved to make them non-slip.

IPC 8 full level

B21D 39/06 (2006.01); **E06C 7/08** (2006.01)

CPC (source: EP)

B21D 39/063 (2013.01); **E06C 7/085** (2013.01)

Citation (search report)

- [IA] US 2951550 A 19600906 - RICH HOWARD B
- [IA] US 3283402 A 19661108 - LARSON CLAYTON E
- [AD] FR 2795127 A1 20001222 - TUBESCA [FR]
- [AD] FR 2100519 A1 19720324 - CHEVANT CLAUDE [FR]
- [A] FR 1459966 A 19660617 - TUBESCA
- [A] GB 384935 A 19321215 - ANDERS WIKSTRAND
- [A] WO 9511366 A1 19950427 - BLUE STEEL OY [FI], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1762694 A2 20070314; **EP 1762694 A3 20100120**; **EP 1762694 B1 20130501**; ES 2422427 T3 20130911; FR 2890682 A1 20070316; FR 2890682 B1 20090220

DOCDB simple family (application)

EP 06291438 A 20060912; ES 06291438 T 20060912; FR 0509346 A 20050913