

Title (en)
CONNECTING SLEEVE FOR EXTENSION LADDER

Title (de)
VERBINDUNGSMUFFE FÜR AUSZIEHLEITER

Title (fr)
MANCHON DE RACCORDEMENT POUR ÉCHELLE EXTENSIBLE

Publication
EP 2549054 B1 20151104 (EN)

Application
EP 10847652 A 20100622

Priority
• CN 201010127269 A 20100317
• CN 2010000909 W 20100622

Abstract (en)
[origin: EP2549054A1] A connecting sleeve for an extension ladder is provided, which includes a connecting ring (1) and a connecting block (2). A rotary seat (3) and a rotary panel (4) are set on the joint surface between the connecting block (2) and the connecting ring (1). The rotary seat (3) is fixed relative to the connecting ring (1), and a socket (31) is set in the centre of the rotary seat (3). A rotating shaft (32) extends to the centre of the socket (31) from two sides of the socket (31) respectively, and a vertical part (41) of the rotary panel (4) is inserted into the socket (31); furthermore, a torque spring (5) is installed outside the rotating shaft (32) so that the horizontal part (42) of the rotary panel (4) can be rotated towards the connecting block (2) about the rotating shaft. When the extension ladder is folded, a fixed safe space between the rungs of the ladder is provided by the rotary panels (4) for preventing fingers from being clamped, meanwhile, the integral height of the ladder can be reduced so as to facilitate package and transportation of the ladder when the horizontal part (42) of the rotary panel (4) is folded.

IPC 8 full level
E06C 7/08 (2006.01); **E06C 1/12** (2006.01)

CPC (source: EP)
E06C 1/125 (2013.01); **E06C 7/06** (2013.01); **E06C 7/086** (2013.01)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2549054 A1 20130123; EP 2549054 A4 20150107; EP 2549054 B1 20151104; CN 101798902 A 20100811; CN 101798902 B 20130206; WO 2011113183 A1 20110922

DOCDB simple family (application)
EP 10847652 A 20100622; CN 2010000909 W 20100622; CN 201010127269 A 20100317