

Title (en)
LEVELING DEVICE OF LADDER

Title (de)
NIVELLIERVORRICHTUNG FÜR EINE LEITER

Title (fr)
DISPOSITIF DE CALAGE D'ÉCHELLE

Publication
EP 2497894 A1 20120912 (EN)

Application
EP 09851119 A 20091103

Priority
KR 2009006430 W 20091103

Abstract (en)
The present invention relates to a leveling device of a ladder, which includes: an upper guide plate and a lower guide plate formed with through-holes capable of being inserted by a rod and fixed to a vertical side frame of the ladder in the perpendicular direction thereto; a key provided in a vertical plate which connects the upper guide plate and the lower guide plate to the vertical side frame of the ladder, and protruding in the same direction with the upper guide plate and the lower guide plate protrude; a rod coupled in the through-holes of the upper guide plate and the lower guide plate to be able to slide by the weight thereof, a stopper plate formed in a plate shape with a clearance larger than the diameter of the rod, disposed between the upper guide plate and the lower guide plate and then inserted by the rod through the clearance, and having an edge extended toward the lower portion of the key to be pressed by the bottom surface of the key and inclined with respect to the rod as the key is applied with a downward force together with the ladder; and a spring positioned between the lower guide plate and the stopper plate to elastically bias the stopper plate in the key direction at all times.

IPC 8 full level
E06C 7/44 (2006.01); **E06C 7/42** (2006.01)

CPC (source: EP)
E06C 7/44 (2013.01)

Designated contracting state (EPC)
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)
WO 2011055863 A1 20110512; EP 2497894 A1 20120912; EP 2497894 A4 20150422; JP 2013510251 A 20130321

DOCDB simple family (application)
KR 2009006430 W 20091103; EP 09851119 A 20091103; JP 2012536642 A 20091103