

Title (en)  
STEP ASSISTING DEVICE FOR FOOTWEAR WALKING EQUIPMENT

Title (de)  
SCHRITTHILFE FÜR SCHUHLAUFHAUSRÜSTUNG

Title (fr)  
DISPOSITIF D'ASSISTANCE DES PAS POUR EQUIPEMENT DE MARCHE POUR CHAUSSURE

Publication  
**EP 3238792 A1 20171101 (EN)**

Application  
**EP 17168454 A 20170427**

Priority  
IT UA20162956 A 20160428

Abstract (en)  
It is disclosed a step assistance device applied to a walking equipment that is adapted to be functionally connected to shoes worn by a user. The equipment comprises first and second substantially elongate plates, having binding means for connection with first and second shoes. The assistance device comprises respective slide guides and sliding units functionally connected to said guides. Particularly, the sliding units comprise a motor that drives them and a sensor, which are functionally associated with a control unit. In a stance phase, the sensor detects a load signal, and the control unit operates the motor for moving the sliding unit along the guide between a first rearward position and a second forward position, such that said first sliding unit, and hence the shoe will travel relative to the first plate. In a swing phase, the control unit operates the motor for moving the sliding unit between the forward position and the rearward position to bring the sliding unit back to the starting position. A battery for supplying power to the motor is fixed to the sliding unit and is manually removable.

IPC 8 full level  
**A63C 5/08** (2006.01); **A63C 9/00** (2012.01); **A63C 9/08** (2012.01); **A63C 13/00** (2006.01)

CPC (source: EP)  
**A63C 5/08** (2013.01); **A63C 9/003** (2013.01); **A63C 9/0807** (2013.01); **A63C 13/006** (2013.01); **A63C 2009/008** (2013.01); **A63C 2203/12** (2013.01)

Citation (search report)

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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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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DOCDB simple family (application)  
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