

Title (en)
Rolling device having step-climbing function

Title (de)
Rollvorrichtung mit Stufensteigfunktion

Title (fr)
Dispositif de roulement à fonction d'aide à la montée

Publication
EP 2927019 B1 20170830 (EN)

Application
EP 14162732 A 20140331

Priority
EP 14162732 A 20140331

Abstract (en)
[origin: EP2927019A1] A rolling device (1) includes an axle (2) rotatable about an axis (C), a plurality of first rolling members (3), and a plurality of second rolling members (5). The first rolling members (3) are connected fixedly to the axle (2). Each of the first rolling members (3) includes a first body (30) having a first rolling surface (31) that is contactable with the ground surface and that is spaced apart from the axis (C) by a first radius (L1). Any two adjacent ones of the first rolling members (3) define an accommodating space (4) therebetween. Each of the second rolling members (5) is disposed movably within the accommodating space (4) between two adjacent ones of the first rolling members (3). Each of the second rolling members (5) includes a second body (50) having a second rolling surface (51) that is contactable with the ground surface and that is spaced apart from the axis (C) by a second radius (L2). Each of the second rolling members (5) is movable relative to the first rolling members (3) between a retracted position whereat the second radius (L2) is not more than the first radius (L1), and an extended position whereat the second radius (L2) is more than the first radius (L1).

IPC 8 full level
B60B 19/04 (2006.01); **A45C 5/14** (2006.01)

CPC (source: EP)
A45C 5/14 (2013.01); **A45C 2005/147** (2013.01)

Cited by
IT201800002050A1; WO2019145901A1

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

DOCDB simple family (publication)
EP 2927019 A1 20151007; EP 2927019 B1 20170830

DOCDB simple family (application)
EP 14162732 A 20140331