

Title (en)

Suspension system for a mid-wheel drive wheelchair

Title (de)

Aufhängungssystem für einen Mittelrad angetriebenen Rollstuhl

Title (fr)

Système de suspension pour chaise roulante motorisée à roue centrale

Publication

EP 2716268 A2 20140409 (EN)

Application

EP 13187328 A 20131004

Priority

- NL 2009570 A 20121004
- NL 2010866 A 20130527

Abstract (en)

The invention relates to a mid wheel drive wheelchair, comprising a frame and a suspension unit connected thereto for at least one drivable wheel element. The suspension unit comprises a first bearing arm connected to the frame for the drivable wheel element. A first end of the first bearing arm is pivotably connected to the frame, wherein the drivable wheel element is rotatably mountable near a part of the first bearing arm which is spaced apart from the first end. The suspension unit is provided with a spring and/or damper element connected to the frame for damping a pivoting motion of the first bearing arm. The suspension unit comprises a second bearing arm for a rear supporting wheel element, wherein a first end of the second bearing arm is pivotably connected to the first bearing arm. The spring and/or damper element is thereby also configured for damping a pivoting motion of the second bearing arm. According to an aspect of the invention the suspension unit comprises a front bearing arm for a front supporting wheel element. A first end of this front bearing arm is pivotably connected to the first bearing arm. Additionally, the front spring and/or damper element is configured for damping a pivoting motion of the front bearing arm.

IPC 8 full level

A61G 5/04 (2013.01); **A61G 5/10** (2006.01)

CPC (source: EP)

A61G 5/043 (2013.01); **A61G 5/1078** (2016.10); **A61G 5/1089** (2016.10)

Cited by

CN113086051A; EP3354247A1; WO2018141623A1; US10667970B2; EP3348248A1

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)

EP 2716268 A2 20140409; EP 2716268 A3 20150422; EP 2716268 B1 20180314

DOCDB simple family (application)

EP 13187328 A 20131004