

Title (en)  
SUSPENSION ARRANGEMENT FOR WHEELS OF A VEHICLE

Title (de)  
AUFHÄNGUNGSANORDNUNG FÜR FAHRZEUGRÄDER

Title (fr)  
SYSTÈME DE SUSPENSION POUR LES ROUES D'UN VÉHICULE

Publication  
**EP 2825402 A1 20150121 (EN)**

Application  
**EP 13761040 A 20130311**

Priority  
• FI 20125267 A 20120312  
• FI 2013050267 W 20130311

Abstract (en)  
[origin: WO2013135954A1] The object of the invention is a suspension arrangement for wheels of a vehicle, which arrangement comprises an axle system provided with suspension arms (2), which system comprises a coupling part (3) for connecting the axle system to the vehicle, and one wheel (1) at both ends of the axle system, said wheel being configured to be driven with a motor (11) and being supported on the suspension arm (2) from below its axis of rotation. The wheel (1) is supported on the suspension arm (2) with at least three joints (7-9), of which the center axes of the first joint (7) and of the second joint (8) are always on the same straight line as each other and the position of the third joint (9) with respect to the aforementioned straight line and to the second joint (8) changes according to the turning and/or inclining of the wheel (1). The air space of the tyre to be used in the vehicle is composed of air channels that are side by side and separated from each other with a flexible wall material.

IPC 8 full level  
**B60G 3/00** (2006.01); **B60C 3/04** (2006.01); **B60C 5/02** (2006.01); **B60C 5/04** (2006.01); **B60G 3/06** (2006.01); **B60G 7/00** (2006.01); **B60G 9/02** (2006.01); **B60G 17/005** (2006.01); **B60K 7/00** (2006.01); **B60K 17/356** (2006.01)

CPC (source: EP FI)  
**B60C 3/04** (2013.01 - EP); **B60C 5/22** (2013.01 - EP); **B60G 3/00** (2013.01 - FI); **B60G 3/06** (2013.01 - EP); **B60G 7/001** (2013.01 - EP); **B60G 7/005** (2013.01 - FI); **B60G 9/02** (2013.01 - FI); **B60G 17/005** (2013.01 - FI); **B60K 7/0007** (2013.01 - EP); **B60K 17/356** (2013.01 - EP); **B60G 2200/142** (2013.01 - EP); **B60G 2200/445** (2013.01 - EP); **B60G 2200/46** (2013.01 - EP); **B60G 2204/148** (2013.01 - EP); **B60G 2204/18** (2013.01 - EP); **B60G 2204/30** (2013.01 - EP); **B60G 2300/07** (2013.01 - EP); **B60K 2007/0038** (2013.01 - EP); **B60K 2007/0092** (2013.01 - EP); **B60Y 2200/20** (2013.01 - EP); **B60Y 2200/44** (2013.01 - EP)

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)  
**WO 2013135954 A1 20130919**; EP 2825397 A2 20150121; EP 2825397 A4 20160518; EP 2825402 A1 20150121; EP 2825402 A4 20151111; FI 125664 B 20151231; FI 20125267 A 20130913; WO 2013135955 A2 20130919; WO 2013135955 A3 20131107

DOCDB simple family (application)  
**FI 2013050267 W 20130311**; EP 13760337 A 20130311; EP 13761040 A 20130311; FI 20125267 A 20120312; FI 2013050268 W 20130311