

Title (en)

HELICAL COMPRESSION SPRING ARRANGEMENT

Title (de)

SCHRAUBENDRUCKFEDERANORDNUNG

Title (fr)

SYSTÈME DE RESSORT DE COMPRESSION À BOUDIN

Publication

EP 2976543 A1 20160127 (DE)

Application

EP 14708201 A 20140305

Priority

- DE 102013005066 A 20130322
- EP 2014000552 W 20140305

Abstract (en)

[origin: WO2014146754A1] Helical compression spring arrangement (1) having a helical compression spring (2) which bears on a spring support (3) by way of at least one axially terminal bearing portion (2a), wherein the bearing portion (2a) has means for forming an at least axially effective positive engagement with corresponding means of the spring support (3), and use of such a helical compression spring arrangement (1) in a suspension strut of a vehicle.

IPC 8 full level

F16F 1/12 (2006.01)

CPC (source: CN EP)

F16F 1/122 (2013.01 - CN EP); **F16F 1/123** (2013.01 - CN EP)

Citation (search report)

See references of WO 2014146754A1

Citation (examination)

- FR 1338981 A 19631004
- US 6454251 B1 20020924 - FISH JOHN C [US]
- EP 2466167 A2 20120620 - AUDI AG [DE]
- DE 893760 C 19531019 - DAIMLER BENZ AG
- DE 60007699 T2 20041209 - MICHELIN & CIE [FR]

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)

DE 102013005066 A1 20140925; CN 105051399 A 20151111; CN 105051399 B 20180216; EP 2976543 A1 20160127; WO 2014146754 A1 20140925

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DE 102013005066 A 20130322; CN 201480017269 A 20140305; EP 14708201 A 20140305; EP 2014000552 W 20140305