

Title (en)
SECONDARY SPRING HAVING AN INTEGRATED TRANSVERSE STOP

Title (de)
SEKUNDÄRFEDER MIT INTEGRIERTEM QUERANSCHLAG

Title (fr)
RESSORT DE SUSPENSION SECONDAIRE À BUTÉE TRANSVERSALE INTÉGRÉE

Publication
EP 3042099 B1 20191225 (DE)

Application
EP 14802351 A 20141113

Priority
• DE 102013224601 A 20131129
• EP 2014074439 W 20141113

Abstract (en)
[origin: WO2015078695A1] The invention relates to a secondary spring (1) for a rail vehicle for springing a wagon body (12) of the rail vehicle on the chassis of the rail vehicle, and to a rail vehicle, wherein the secondary spring (1) is divided along a predefined axis into a first and at least one further, second section (7), which first section (8) is designed to be axially stiff and springy orthogonally to the predefined axis, and which second section (7) is designed to be stiff orthogonally to the predefined axis and axially springy, wherein the secondary spring (1) comprises at least one horizontal stop (2), which is arranged on the secondary spring (1) such that a force which acts on the horizontal stop (2) orthogonally to the predefined axis is introduced into the secondary spring (1) between the first and the second section (2).

IPC 8 full level
F16F 3/087 (2006.01); **B61F 5/08** (2006.01)

CPC (source: EP US)
B61F 5/08 (2013.01 - EP US); **B61F 5/10** (2013.01 - US); **B61F 5/12** (2013.01 - US); **B61F 5/14** (2013.01 - US); **B61F 5/148** (2013.01 - US); **B61C 3/00** (2013.01 - US); **B61D 3/00** (2013.01 - US)

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)
DE 102013224601 A1 20150603; DE 102013224601 B4 20150827; CN 206017526 U 20170315; DK 3042099 T3 20200330;
EP 3042099 A1 20160713; EP 3042099 B1 20191225; ES 2776160 T3 20200729; PL 3042099 T3 20200907; PT 3042099 T 20200228;
US 10322731 B2 20190618; US 2017001651 A1 20170105; WO 2015078695 A1 20150604

DOCDB simple family (application)
DE 102013224601 A 20131129; CN 201490001195 U 20141113; DK 14802351 T 20141113; EP 14802351 A 20141113;
EP 2014074439 W 20141113; ES 14802351 T 20141113; PL 14802351 T 20141113; PT 14802351 T 20141113; US 201415100128 A 20141113