

Title (en)
DAMPING APPARATUS AND METHOD FOR INSTALLATION THEREOF

Title (de)
DÄMPFUNGSVORRICHTUNG SOWIE VERFAHREN ZU DESSEN MONTAGE

Title (fr)
APPAREIL D'AMORTISSEMENT ET SON PROCÉDÉ D'INSTALLATION

Publication
EP 4034779 A1 20220803 (DE)

Application
EP 20749866 A 20200729

Priority
• DE 102019125701 A 20190924
• EP 2020071442 W 20200729

Abstract (en)
[origin: WO2021058181A1] The invention relates to a damping apparatus (10) for absorbing and/or damping vibrations of a vehicle part or for isolating and/or damping a vibrating vehicle component (84), having at least one mass element (12), at least one fastening element (14) for fastening the damping apparatus (10) to the vehicle part or to a vehicle part adjacent to the mass element (12), and at least one spring apparatus (16) which connects the mass element (12) in a vibratable manner to the fastening element (14). The mass element (12) or the fastening element has at least one fastening device (23) for fastening the spring apparatus (16), and the fastening element (14), the mass element (12) and/or the vehicle part have at least two support devices (33) for supporting the spring apparatus (16), the spring apparatus (16) having at least one fastening apparatus (42), which is fixed to the fastening device (23), and at least two support portions (46a, 46b), which are supported in the opposing axial direction A on the support devices (33), the fastening device (23) and the support devices (33) being spaced apart from one another in the axial direction A in such a way that when the support portions (46a, 46b) rest on the support devices (33) the spring apparatus (16) is preloaded. Furthermore, the invention relates to a method for installing such a damping apparatus (10).

IPC 8 full level
F16F 1/373 (2006.01); **F16F 7/108** (2006.01); **F16F 15/08** (2006.01)

CPC (source: EP KR US)
F16F 1/3735 (2013.01 - EP KR); **F16F 7/108** (2013.01 - EP KR US); **F16F 15/08** (2013.01 - EP KR); **F16F 2222/08** (2013.01 - US); **F16F 2226/04** (2013.01 - EP KR US); **F16F 2228/08** (2013.01 - EP KR US); **F16F 2230/0005** (2013.01 - EP KR 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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2021058181 A1 20210401; CN 114364900 A 20220415; DE 102019125701 A1 20210408; DE 102019125701 B4 20230126; EP 4034779 A1 20220803; KR 20220062535 A 20220517; US 2022333662 A1 20221020

DOCDB simple family (application)
EP 2020071442 W 20200729; CN 202080062548 A 20200729; DE 102019125701 A 20190924; EP 20749866 A 20200729; KR 20227009148 A 20200729; US 202017762569 A 20200729