

Title (en)
VIBRATION REDUCING DEVICE

Title (de)
VORRICHTUNG ZUR REDUZIERUNG VON VIBRATIONEN

Title (fr)
DISPOSITIF DE RÉDUCTION DES VIBRATIONS

Publication
EP 3848507 A4 20220518 (EN)

Application
EP 19857743 A 20190906

Priority
• KR 20180106714 A 20180906
• KR 2019011522 W 20190906

Abstract (en)
[origin: EP3848507A1] The present invention relates to a vibration reduction device, and more particularly, to a vibration reduction device capable of reducing rolling noise by reducing vibration in a low-frequency region as well as vibration in a high-frequency region. A vibration reduction device according to an exemplary embodiment of the present invention includes: a pair of damper main bodies disposed at both sides with a web portion of a rail interposed therebetween, such that at least a part of the damper main body is in contact with the web portion and at least another part of the damper main body is in contact with a lower end portion of the rail which is connected to the web portion; a plurality of inelastic collision balls provided in at least two through holes formed in each of the pair of damper main bodies so as to be movable with respect to the web portion or the lower end portion; and a pair of housings configured to surround the pair of damper main bodies from the outside in order to prevent the damper main bodies from being exposed to the outside.

IPC 8 full level
E01B 19/00 (2006.01)

CPC (source: EP KR)
E01B 19/00 (2013.01 - KR); **E01B 19/003** (2013.01 - EP); **E01B 2201/08** (2013.01 - KR)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 2020050670A1

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)
EP 3848507 A1 20210714; **EP 3848507 A4 20220518**; **EP 3848507 B1 20231115**; CN 112703290 A 20210423; CN 112703290 B 20221115; KR 102171822 B1 20201029; KR 20200028246 A 20200316; WO 2020050670 A1 20200312

DOCDB simple family (application)
EP 19857743 A 20190906; CN 201980059365 A 20190906; KR 20180106714 A 20180906; KR 2019011522 W 20190906