

Title (en)

PORTABLE ROADWAY WARNING DEVICE WITH HIGH-DENSITY FILLER AND ABSENT RIGID METAL BALLAST INSERTS

Title (de)

TRAGBARE STRASSENWARNVORRICHTUNG MIT HOCHDICHTEM FÜLLSTOFF UND OHNE STARRE METALLBALLASTEINSÄTZE

Title (fr)

DISPOSITIF D'AVERTISSEMENT DE CHAUSSÉE PORTABLE COMPRENANT UNE CHARGE À HAUTE DENSITÉ ET DÉPOURVU D'INSERT DE LESTAGE MÉTALLIQUE RIGIDE

Publication

EP 4298282 A1 20240103 (EN)

Application

EP 22760262 A 20220222

Priority

- US 202163152493 P 20210223
- US 2022017225 W 20220222

Abstract (en)

[origin: WO2022182630A1] A roadway warning device including a portable rumble strip that includes high-density filler material to achieve a desired overall density and roadway stability of the rumble strip such as for use in high-speed traffic conditions without the use of conventional rigid metal ballast inserts. In some embodiments, the filler is dispersed and embedded within a flexible polymer composite matrix of the rumble strip body. In some embodiments, the filler is in the form of discrete unbound pieces of material disposed within a cavity of the rumble strip body. In some embodiments, the filler is in the form of a frangible article disposed within the rumble strip body.

IPC 8 full level

E01F 9/529 (2016.01); **E01F 9/00** (2016.01); **E01F 9/594** (2016.01); **E01F 9/604** (2016.01); **E01F 9/688** (2016.01); **E01F 11/00** (2006.01)

CPC (source: EP US)

E01F 9/512 (2016.02 - US); **E01F 9/529** (2016.02 - EP US)

Citation (search report)

See references of WO 2022182630A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022182630 A1 20220901; AU 2022226600 A1 20230928; CA 3212063 A1 20220901; EP 4298282 A1 20240103; US 2024018730 A1 20240118

DOCDB simple family (application)

US 2022017225 W 20220222; AU 2022226600 A 20220222; CA 3212063 A 20220222; EP 22760262 A 20220222; US 202218547690 A 20220222