

Title (en)

PROGRESSIVE STAGE LOAD DISTRIBUTION AND ABSORPTION UNDERLAYMENT SYSTEM

Title (de)

PROGRESSIVES BÜHNENLASTVERTEILUNGS- UND ABSORPTIONSUNTERLAGENSYSTEM

Title (fr)

SYSTÈME DE SOUS-COUCHE DE DISTRIBUTION ET D'ABSORPTION DE CHARGES À ÉTAGES PROGRESSIFS

Publication

**EP 3935238 A1 20220112 (EN)**

Application

**EP 20766677 A 20200304**

Priority

- US 201916293363 A 20190305
- US 2020020893 W 20200304

Abstract (en)

[origin: WO2020180931A1] A progressive stage load distributing and absorbing system that lies below a superstructure material which is exposed to percussive forces. The progressive stage load distributing and absorbing system is interposed between the superstructure material and a foundation. The system has a barrier layer that lies below the superstructure material and an underlayment infrastructure positioned below the barrier layer. Included in the underlayment infrastructure are hat-shaped absorbing members that have a relatively compliant stage subsystem and one or more relatively stiff stage subsystems.

IPC 8 full level

**E04F 15/22** (2006.01); **E01C 13/02** (2006.01)

CPC (source: EP)

**E04F 15/185** (2013.01); **E04F 15/187** (2013.01); **E04F 15/22** (2013.01); **E01C 13/02** (2013.01)

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 2020180931 A1 20200910**; CA 3129148 A1 20200910; CN 114096722 A 20220225; CN 114096722 B 20230718; EP 3935238 A1 20220112; EP 3935238 A4 20221130; EP 3935238 B1 20240911; MX 2021010627 A 20220325

DOCDB simple family (application)

**US 2020020893 W 20200304**; CA 3129148 A 20200304; CN 202080032003 A 20200304; EP 20766677 A 20200304; MX 2021010627 A 20200304