

Title (en)  
A SOUNDPROOFING WALL COMPRISING A PLATE-TYPE ACOUSTIC METAMATERIAL

Title (de)  
SCHALLSCHUTZWAND MIT EINEM PLATTENFÖRMIGEN AKUSTISCHEN METAMATERIAL

Title (fr)  
MUR INSONORISANT COMPRENANT UN MÉTAMATÉRIAU ACOUSTIQUE DE TYPE PLAQUE

Publication  
**EP 4083996 A1 20221102 (EN)**

Application  
**EP 21171395 A 20210430**

Priority  
EP 21171395 A 20210430

Abstract (en)  
A soundproofing wall for isolating a first room on one side of the soundproofing wall from a sound source on the other side of the soundproofing wall, the soundproofing wall comprising a plate-type acoustic metamaterial with a baseplate and a plurality of masses arranged on the baseplate wherein at least one of the masses is strip-shaped.

IPC 8 full level  
**G10K 11/162** (2006.01)

CPC (source: EP)  
**G10K 11/162** (2013.01)

Citation (search report)  
• [XAI] US 2014339014 A1 20141120 - VARANASI SATYA SURYA SRINIVAS [US], et al  
• [A] LANGFELDT FELIX ET AL: "Optimizing the bandwidth of plate-type acoustic metamaterials", THE JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, AMERICAN INSTITUTE OF PHYSICS FOR THE ACOUSTICAL SOCIETY OF AMERICA, NEW YORK, NY, US, vol. 148, no. 3, 9 September 2020 (2020-09-09), pages 1304 - 1314, XP012249974, ISSN: 0001-4966, [retrieved on 20200909], DOI: 10.1121/10.0001925  
• [A] LIU YANG ET AL: "Vibroacoustic characteristics and sound attenuation analyses of a duct-membrane system coupled with strip masses", JOURNAL OF VIBRATION AND CONTROL, vol. 25, no. 23-24, 1 December 2019 (2019-12-01), US, pages 2910 - 2920, XP055846768, ISSN: 1077-5463, Retrieved from the Internet <URL:https://journals.sagepub.com/doi/pdf/10.1177/1077546319873459> DOI: 10.1177/1077546319873459

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

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