

Title (en)  
METAL MATRIX COMPOSITE MATERIALS FOR ACOUSTIC APPLICATIONS

Title (de)  
METALLMATRIXVERBUNDSTOFFMATERIALIEN FÜR AKUSTISCHE ANWENDUNGEN

Title (fr)  
MATÉRIAUX COMPOSITES À MATRICE MÉTALLIQUE POUR APPLICATIONS ACOUSTIQUES

Publication  
**EP 3143621 A4 20180425 (EN)**

Application  
**EP 15792910 A 20150515**

Priority  
• US 201461993655 P 20140515  
• US 2015031009 W 20150515

Abstract (en)  
[origin: WO2015175897A1] Loudspeaker diaphragms are made from a metal matrix composite sheet of substantially uniform thickness. The metal matrix sheet comprises ceramic particles distributed in a metal matrix, the ceramic particles having an average particle size from 0.1 micrometers to 20 micrometers. The metal matrix sheet has a substantially uniform thickness of 4 micrometers to 1,000 micrometers.

IPC 8 full level  
**C22C 21/00** (2006.01); **C22C 32/00** (2006.01); **G11B 5/73** (2006.01)

CPC (source: EP)  
**B22F 5/006** (2013.01); **C22C 21/02** (2013.01); **C22C 21/08** (2013.01); **C22C 21/12** (2013.01); **C22C 21/16** (2013.01); **C22C 21/18** (2013.01); **C22C 29/005** (2013.01); **C22C 32/001** (2013.01); **C22C 32/0047** (2013.01); **B22F 2998/10** (2013.01); **B22F 2999/00** (2013.01); **C22C 32/0031** (2013.01); **C22C 32/0036** (2013.01)

Citation (search report)  
• [X] US 2008124566 A1 20080529 - SMALLMAN CLINT GUY [GB], et al  
• [A] JP H06276596 A 19940930 - SUMITOMO ELECTRIC INDUSTRIES  
• [A] US 6284014 B1 20010904 - GARDEN ROBIN [US]  
• [A] JP S54111818 A 19790901 - HITACHI LTD  
• [A] FR 2607741 A1 19880610 - CEGEDUR [FR]  
• See references of WO 2015175897A1

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)  
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