

Title (en)  
ACOUSTIC ANTENNA WITH INTEGRATED PRINTED CIRCUITS

Title (de)  
AKUSTISCHE ANTENNE MIT INTEGRIERTEN BESTÜCKTEN LEITERPLATTEN

Title (fr)  
ANTENNE ACOUSTIQUE A CIRCUITS IMPRIMES INTEGRES

Publication  
**EP 2276583 A2 20110126 (FR)**

Application  
**EP 09750050 A 20090506**

Priority  
• FR 2009050842 W 20090506  
• FR 0802548 A 20080507

Abstract (en)  
[origin: WO2009141569A2] The present invention relates to an acoustic antenna requiring the fewest possible number of assembly operations, which operations can be easily automated. The acoustic antenna according to the invention is characterized in that it comprises an array of elementary transducers (15), each elementary transducer comprising, between a counterweight (10) and a horn (9), at least one ceramic (8), all the elementary transducers being mounted on a common printed circuit (7, 16) for electrical connection between the transducers and for positioning the transducers relative to one another, and at least one connector (26, 27) fixed to this printed circuit, each of the transducers being mounted in such a way that the printed circuit is clamped between the ceramic(s) thereof and the counterweight thereof.

IPC 8 full level  
**B06B 1/06** (2006.01)

CPC (source: EP US)  
**B06B 1/0629** (2013.01 - EP US)

Citation (search report)  
See references of WO 2009141569A2

Designated contracting state (EPC)  
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 SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**FR 2931016 A1 20091113; FR 2931016 B1 20100813**; DK 2276583 T3 20151116; EP 2276583 A2 20110126; EP 2276583 B1 20150826; JP 2011520374 A 20110714; JP 5723765 B2 20150527; US 2011051969 A1 20110303; US 9114427 B2 20150825; WO 2009141569 A2 20091126; WO 2009141569 A3 20100311

DOCDB simple family (application)  
**FR 0802548 A 20080507**; DK 09750050 T 20090506; EP 09750050 A 20090506; FR 2009050842 W 20090506; JP 2011507975 A 20090506; US 99103309 A 20090506