

Title (en)  
Acoustic wave guide

Title (de)  
Akustischer Wellenleiter

Title (fr)  
Guide d'ondes acoustique

Publication  
**EP 2922050 A1 20150923 (EN)**

Application  
**EP 15158244 A 20150309**

Priority  
IT MI20140361 A 20140310

Abstract (en)  
There is described an acoustic wave guide (1) with resonant cavity (2) to amplify an acoustic pressure wave, said resonant cavity (2) is symmetric and has an acoustic horn-shaped horizontal section (21) on the horizontal plane (C) while, on the vertical plane (D), it has a vertical section (22), the longitudinal dimension of which extends along a curved longitudinal axis (L) and has a narrowed transversal section (20) of the resonant cavity (2), which is narrower than a linear dimension (301) of a transversal section (30) of an input orifice (3) and than a linear dimension (401) of a transversal section (40) of an output orifice (4) of rectangular shape.

IPC 8 full level  
**G10K 11/22** (2006.01); **H04R 1/34** (2006.01)

CPC (source: EP)  
**G10K 11/22** (2013.01); **H04R 1/345** (2013.01)

Citation (applicant)  
• US 7068805 B2 20060627 - GEDDES EARL RUSSELL [US]  
• US 4324313 A 19820413 - NAKAGAWA TOMIYO  
• US 6059069 A 20000509 - HUGHES II CHARLES EMORY [US]  
• US 5163167 A 19921110 - HEIL CHRISTIAN [FR]  
• US 6585077 B2 20030701 - VINCENOT ERIC [FR], et al

Citation (search report)  
• [IY] US 1666057 A 19280410 - ELWOOD GRISSINGER  
• [YA] US 2004216948 A1 20041104 - MEYER JOHN D [US], et al  
• [YA] US 4206831 A 19800610 - GRIFFITH JOSEPH W [US], et al  
• [A] US 4465160 A 19840814 - KAWAMURA AKIHISA [JP], et al  
• [YA] US 5925856 A 19990720 - MEYER JOHN D [US], et al  
• [YA] FR 2994046 A1 20140131 - DUCHAMP JEAN NOEL [FR], et al  
• [YA] US 2005008181 A1 20050113 - GEDDES EARL ROSSELL [US]

Cited by  
NL2015783B1; US2021156996A1; US11808850B2; US2021156994A1; US11867805B2; CN112213397A; US2022163324A1; US11906293B2

Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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