

Title (en)  
SPEAKER ELEMENT AND ARRAY SPEAKER

Title (de)  
LAUTSPRECHERELEMENT UND ARRAY-LAUTSPRECHER

Title (fr)  
ÉLÉMENT DE HAUT-PARLEUR ET HAUT-PARLEUR EN RÉSEAU

Publication  
**EP 3611938 A4 20200429 (EN)**

Application  
**EP 18785140 A 20180403**

Priority  
• JP 2017079686 A 20170413  
• JP 2018014286 W 20180403

Abstract (en)  
[origin: EP3611938A1] A diaphragm (3) has a plurality of connection pieces (5) disposed on an outer edge of a major surface (3A), the connection pieces (5) protruding outward along the major surface (3A) and being connected to an outer frame (4). A piezoelectric element is layered on the diaphragm (3) and becomes deformed under application of a voltage to cause the diaphragm (3) to vibrate. The thickness of the connection pieces (5) along a z-axis direction is greater than a sheet thickness of the diaphragm (3) in a region on which the piezoelectric element is layered. The connection pieces (5) protrude from the major surface (3A) in the z-axis direction.

IPC 8 full level  
**H04R 1/40** (2006.01); **H04R 17/00** (2006.01)

CPC (source: EP)  
**H04R 1/40** (2013.01); **H04R 17/00** (2013.01)

Citation (search report)  
• [A] US 2014153750 A1 20140605 - KONNO FUMIYASU [JP], et al  
• See references of WO 2018190200A1

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)  
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DOCDB simple family (publication)  
**EP 3611938 A1 20200219; EP 3611938 A4 20200429; EP 3611938 B1 20220504**; JP 2018182533 A 20181115; JP 6790981 B2 20201125; WO 2018190200 A1 20181018

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