

Title (en)

ACOUSTIC TRANSDUCER ARRANGEMENT HAVING BENDING ELEMENTS AND METHOD FOR PRODUCING AN ACOUSTIC TRANSDUCER ARRANGEMENT HAVING BENDING ELEMENTS

Title (de)

SCHALLWANDLERANORDNUNG MIT BIEGEELEMENTEN UND VERFAHREN ZUR HERSTELLUNG EINER SCHALLWANDLERANORDNUNG MIT BIEGEELEMENTEN

Title (fr)

ENSEMBLE TRANSDUCTEUR ACOUSTIQUE COMPRENANT DES ÉLÉMENTS FLEXIBLES ET PROCÉDÉ DE FABRICATION D'UN ENSEMBLE TRANSDUCTEUR ACOUSTIQUE COMPRENANT DES ÉLÉMENTS FLEXIBLES

Publication

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Application

EP 16781787 A 20161014

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Abstract (en)

[origin: WO2017097472A1] An acoustic transducer arrangement (100) comprising: a perforated plate carrier (101) which has one side with at least two spaced first recesses (102) and has an opposite side with at least two spaced second recesses (103) so that in each case a first recess (102) and a second recess (103) are arranged adjacently above each other, a lateral extent of the second recess (103) being larger than a lateral extent of the first recess (102) so that support surfaces (104) form on the first recess (102); at least two bending elements (111, 121), a lateral extent of the bending elements (111, 121) being larger than the lateral extent of the first recesses (102) and smaller than the lateral extent of the second recesses (103), wherein a bending element (111, 121) is provided within each second recess (103) and is partially connected in an electrically conductive manner to the support surfaces (104); at least two piezoelectric elements (106, 116), a piezoelectric element (106, 116) being provided within each first recess (102) underneath a bending element (111, 121) and being connected in an electrically conductive manner to the bending element (111, 121); and a top layer (108) which is provided above the perforated plate carrier (101) and the bending elements (111, 121) and is connected to the perforated plate carrier (101) and the bending elements (111, 121), the top layer (108) above the bending elements (111, 121) being a membrane.

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