

Title (en)

METHOD FOR PRODUCING A MULTILAYER ELECTROMECHANICAL TRANSDUCER

Title (de)

VERFAHREN ZUM HERSTELLEN EINES MEHRSCHICHTIGEN ELEKTROMECHANISCHEN WANDLERS

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN CONVERTISSEUR ÉLECTROMÉCANIQUE MULTICOUCHE

Publication

EP 2946415 A1 20151125 (DE)

Application

EP 14700364 A 20140113

Priority

- EP 13151523 A 20130116
- EP 2014050442 W 20140113
- EP 14700364 A 20140113

Abstract (en)

[origin: WO2014111327A1] The invention relates to a method for producing at least one multilayer electromechanical transducer (44), having the steps of providing at least one dielectric elastomer film (10, 16, 22, 30, 46), applying at least one electrode layer (12, 18, 20, 24, 26, 28, 42) onto at least one first part (16.1, 16.4, 22.1) of the elastomer film (10, 16, 22, 30, 46) in an application step, arranging the elastomer film (10, 16, 22, 30, 46) on a receiving surface (4) of a folding device (2), said folding device (2) having a first plate (2.1) and a second plate (2.2), fixing the elastomer film (10, 16, 22, 30, 46) on the receiving surface (4), and folding the first part (16.1, 16.4, 22.1) of the elastomer film (10, 16, 22, 30, 46) onto another part (16.2, 16.3, 22.3) of the elastomer film (10, 16, 22, 30, 46) in a folding step by folding the first plate (2.1) relative to the second plate (2.2) such that the electrode layer (12, 18, 20, 24, 26, 28, 42) is arranged between the first part (16.1, 16.4, 22.1) of the elastomer film (10, 16, 22, 30, 46) and the second part (16.2, 16.3, 22.3) of the elastomer film (10, 16, 22, 30, 46).

IPC 8 full level

H01L 41/047 (2006.01); **H01L 41/083** (2006.01); **H01L 41/193** (2006.01); **H01L 41/27** (2013.01); **H01L 41/297** (2013.01)

CPC (source: EP US)

H02N 11/002 (2013.01 - US); **H10N 30/05** (2023.02 - EP US); **H10N 30/067** (2023.02 - EP US); **H10N 30/20** (2023.02 - US); **H10N 30/704** (2024.05 - US); **H10N 30/857** (2023.02 - EP US)

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)

BA ME

DOCDB simple family (publication)

WO 2014111327 A1 20140724; CN 105229809 A 20160106; EP 2946415 A1 20151125; JP 2016509826 A 20160331; KR 20150107815 A 20150923; TW 201503437 A 20150116; US 2016027995 A1 20160128

DOCDB simple family (application)

EP 2014050442 W 20140113; CN 201480016157 A 20140113; EP 14700364 A 20140113; JP 2015552064 A 20140113; KR 20157021790 A 20140113; TW 103101357 A 20140115; US 201414761026 A 20140113