

Title (en)

FERROELECTRET DOUBLE AND MULTILAYER COMPOSITE AND METHOD FOR PRODUCTION THEREOF

Title (de)

FERROELEKTRET-ZWEI- UND MEHRSCHICHTVERBUND UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

COMPOSITE À DEUX COUCHES OU MULTICOUCHE À FERROÉLECTRET ET PROCÉDÉ DE FABRICATION DUDIT COMPOSITE

Publication

**EP 2376279 A2 20111019 (DE)**

Application

**EP 09764187 A 20091128**

Priority

- EP 2009008479 W 20091128
- EP 08021693 A 20081213
- EP 09009203 A 20090715
- EP 09764187 A 20091128

Abstract (en)

[origin: WO2010066348A2] The invention relates to a method for producing double or multilayer ferroelectret with defined cavities by: structuring at least one first surface of a first polymer film (1) forming a height profile, applying at least one second polymer film (5, 1') to the structured surface on the first polymer film formed in step a), joining the polymer films (1, 1', 5) to give a polymer film composite with the formation of cavities (4, 4') and electrically charging of the inner surfaces of the cavities (4, 4') formed in step c) with opposing electrical charges. The invention further relates to ferroelectret multilayer composites, optionally produced by said method, comprising at least two polymer films, arranged one over the other and connected to each other, wherein cavities are formed between the polymer films. A piezoelectric element comprising a said ferroelectret multilayer composite is also disclosed.

IPC 8 full level

**B06B 1/06** (2006.01); **B32B 3/30** (2006.01); **B32B 27/08** (2006.01)

CPC (source: EP KR US)

**B32B 3/30** (2013.01 - EP US); **B32B 27/08** (2013.01 - KR); **B32B 27/281** (2013.01 - EP US); **B32B 27/285** (2013.01 - EP US); **B32B 27/306** (2013.01 - EP US); **B32B 27/32** (2013.01 - EP US); **B32B 27/322** (2013.01 - EP US); **B32B 27/325** (2013.01 - EP US); **B32B 27/36** (2013.01 - EP US); **B32B 27/365** (2013.01 - EP US); **B32B 38/06** (2013.01 - KR); **H04R 17/02** (2013.01 - KR); **H04R 23/00** (2013.01 - KR); **H10N 30/098** (2023.02 - EP US); **H10N 30/857** (2023.02 - EP US); **B32B 2270/00** (2013.01 - EP US); **B32B 2307/302** (2013.01 - EP US); **B32B 2419/00** (2013.01 - EP US); **B32B 2439/70** (2013.01 - EP US); **B32B 2605/00** (2013.01 - EP US); **H10N 30/50** (2023.02 - EP US); **Y10T 156/1039** (2015.01 - EP US); **Y10T 156/14** (2015.01 - EP US)

Citation (search report)

See references of WO 2010066348A2

Cited by

CN104683923A

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 SM TR

DOCDB simple family (publication)

**WO 2010066348 A2 20100617**; **WO 2010066348 A3 20100812**; CA 2746482 A1 20100617; CN 102317066 A 20120111; CN 102317066 B 20150603; EP 2286988 A1 20110223; EP 2376279 A2 20111019; KR 101515261 B1 20150424; KR 20110095943 A 20110825; TW 201033008 A 20100916; US 2011309716 A1 20111222

DOCDB simple family (application)

**EP 2009008479 W 20091128**; CA 2746482 A 20091128; CN 200980156627 A 20091128; EP 09009203 A 20090715; EP 09764187 A 20091128; KR 20117016158 A 20091128; TW 98142399 A 20091211; US 99883809 A 20091128