

Title (en)

PIEZOELECTRIC POLYMER FILM ELEMENT, IN PARTICULAR POLYMER FILM, AND METHOD FOR PRODUCTION OF SAME

Title (de)

PIEZOELEKTRISCHES POLYMERFILMELEMENT, INSBESONDERE POLYMERFOLIE, UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

ÉLÉMENT DE FILM POLYMÈRE PIÉZOÉLECTRIQUE, NOTAMMENT FEUILLE POLYMÈRE ET SON PROCÉDÉ DE FABRICATION

Publication

**EP 2507848 A1 20121010 (DE)**

Application

**EP 10785058 A 20101129**

Priority

- EP 09015050 A 20091204
- EP 2010068369 W 20101129
- EP 10785058 A 20101129

Abstract (en)

[origin: EP2330648A1] The film element (1) has hollow particles (3) arranged in a polymer matrix. The hollow particles are formed in a form of balls and/or strands. The hollow particles are formed from glass, polymer or ceramic material. The hollow particles exhibit preset size and/or preset dimensions. The polymer matrix consists of electrically non-conducting polymers or electrically non-conducting polymer mixture, polyurethane-elastomer, silicon elastomer, acrylate-elastomer and/or natural rubber. The polymer matrix exhibits preset thickness. An independent claim is also included for a method for manufacturing a piezoelectric polymer film element.

IPC 8 full level

**H01L 41/193** (2006.01); **H01L 41/45** (2013.01)

CPC (source: EP KR US)

**H10N 30/098** (2023.02 - EP KR US); **H10N 30/857** (2023.02 - EP KR US); **Y10T 29/42** (2015.01 - EP US)

Citation (search report)

See references of WO 2011067194A1

Citation (examination)

US 2011021916 A1 20110127 - MORITA KIYOKAZU [JP]

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

**EP 09015050 A 20091204**; CN 201080055138 A 20101129; EP 10785058 A 20101129; EP 2010068369 W 20101129; JP 2012541430 A 20101129; KR 20127014232 A 20101129; US 201013512361 A 20101129