

Title (en)

AN ELECTROMECHANICAL CONVERTER CONSISTING OF A CYCLICALLY STABLE, REVERSIBLE, AND EXPANDABLE ELECTRODE, AND A METHOD FOR PRODUCING SAME

Title (de)

EIN ELEKTROMECHANISCHER WANDLER BESTEHEND AUS EINER ZYKLISCH STABILEN, REVERSIBEL, DEHNFÄHIGEN ELEKTRODE UND EIN VERFAHREN ZUR DEREN HERSTELLUNG

Title (fr)

CONVERTISSEUR ÉLECTROMÉCANIQUE CONSTITUÉ D'UN ÉLECTRODE EXTENSIBLE, RÉVERSIBLE ET CYCLIQUEMENT STABLE ET PROCÉDÉ DE FABRICATION DE CELLE-CI

Publication

EP 3304609 A1 20180411 (DE)

Application

EP 16725500 A 20160524

Priority

- EP 15169895 A 20150529
- EP 2016061676 W 20160524

Abstract (en)

[origin: WO2016193061A1] The invention relates to thin, flexible and expandable electrically conductive electrode layers based on conductive carbon, said layers having a sufficiently high adhesion to dielectric layers in stacking actuators without delamination. The invention also relates to a method for producing said electrode layers, to the use thereof for producing electromechanical converters based on dielectric elastomers as well as components comprising the electromechanical converter, to a use of the electromechanical converter, and to a device for producing the electroactive polymer film system and the electromechanical converter from multilayer actuators.

IPC 8 full level

H10N 30/06 (2023.01); **H10N 30/87** (2023.01); **H10N 30/067** (2023.01); **H10N 30/857** (2023.01)

CPC (source: EP US)

H10N 30/06 (2023.02 - EP US); **H10N 30/067** (2023.02 - EP US); **H10N 30/857** (2023.02 - EP US); **H10N 30/871** (2023.02 - EP US); **H10N 30/878** (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 2016193061 A1 20161208; CN 107646146 A 20180130; EP 3304609 A1 20180411; US 2018159022 A1 20180607

DOCDB simple family (application)

EP 2016061676 W 20160524; CN 201680031328 A 20160524; EP 16725500 A 20160524; US 201615577810 A 20160524