

Title (en)
ROTARY PIEZOELECTRIC MOTOR COMPRISING AN OSCILLATING HOUSING

Title (de)
ROTATIONS-PIEZOMOTOR MIT SCHWINGGEHÄUSE

Title (fr)
MOTEUR PIÉZOÉLECTRIQUE À ROTATION POURVU D'UN BOÎTIER OSCILLANT

Publication
EP 3583693 A1 20191225 (DE)

Application
EP 18708054 A 20180207

Priority
• DE 102017102884 A 20170214
• EP 2018053083 W 20180207

Abstract (en)
[origin: WO2018149714A1] The invention relates to a piezoelectric motor having a stator (1), a rotor rotating about a rotational axis (5) and at least one piezoelectric element (20, 21) driving the rotor and maintained by the stator (1). The aim of the invention is to increase the mechanical reliability and performance levels of a piezoelectric motor. The aim is achieved in that the piezoelectric element (20, 21) is mounted in an oscillating housing (8) which oscillates with respect to the stator (1) about the pivot axis (16).

IPC 8 full level
H02N 2/10 (2006.01); **H02N 2/12** (2006.01)

CPC (source: EP US)
H02N 2/009 (2013.01 - US); **H02N 2/101** (2013.01 - EP US); **H02N 2/123** (2013.01 - EP); **H02N 2/145** (2013.01 - US);
H10N 30/503 (2023.02 - EP); **H10N 30/80** (2023.02 - EP)

Citation (search report)
See references of WO 2018149714A1

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)
DE 102017102884 A1 20180816; CN 110291711 A 20190927; EP 3583693 A1 20191225; US 11431266 B2 20220830;
US 2020059169 A1 20200220; WO 2018149714 A1 20180823

DOCDB simple family (application)
DE 102017102884 A 20170214; CN 201880011778 A 20180207; EP 18708054 A 20180207; EP 2018053083 W 20180207;
US 201816485866 A 20180207