

Title (en)

Electromechanical actuator with interdigital electrodes

Title (de)

Elektromechanischer Stellantrieb mit ineinandergeschobenen Elektroden

Title (fr)

Actionneur électromécanique à électrodes interdigitées

Publication

EP 2296157 B1 20141210 (FR)

Application

EP 10175846 A 20100908

Priority

FR 0904345 A 20090911

Abstract (en)

[origin: EP2296157A1] The actuator has two sets of parallel conductive plates e.g. movable plates (PM) and fixed plates (PF) respectively provided on a movable element and a plane substrate (10). The sets of the plates are interdigitated symmetrically with each other and mutually covered on a portion of height such that electric control voltage applied between the plates produces electrostatic force having a component along the height of the plates. Opposed ends of the movable plates are mechanically and electrically secured with end crosspieces (22, 24) facing opposed ends of the fixed plates.

IPC 8 full level

H01H 1/00 (2006.01); **H01H 59/00** (2006.01)

CPC (source: EP US)

H01H 1/0036 (2013.01 - EP US); **H01H 59/0009** (2013.01 - EP US); **H01H 2001/0042** (2013.01 - EP US); **H01H 2001/0084** (2013.01 - 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 SE SI SK SM TR

DOCDB simple family (publication)

EP 2296157 A1 20110316; **EP 2296157 B1 20141210**; FR 2950194 A1 20110318; FR 2950194 B1 20110902; JP 2011060766 A 20110324; US 2011220470 A1 20110915; US 8390407 B2 20130305

DOCDB simple family (application)

EP 10175846 A 20100908; FR 0904345 A 20090911; JP 2010202835 A 20100910; US 87926110 A 20100910