

Title (en)
Capacitive MEMS component with buried transmission line

Title (de)
Kapazitive Mems-Komponente mit Erdübertragungslinie

Title (fr)
Composant mems capacitif à ligne de transmission enterrée

Publication
EP 2747190 B1 20201007 (FR)

Application
EP 13198695 A 20131220

Priority
FR 1203561 A 20121221

Abstract (en)
[origin: EP2747190A1] The system has an electrostatic actuator including a stack (8) having a substrate (4), a radio frequency transmission line (3) along a longitudinal direction, and a dielectric layer (5). Two pillars (2a, 2b) arranged on the stack supports a metal membrane (1), where the upper surface of the stack is planar. The substrate includes a housing (9) in which the transmission line is placed. A passivation layer is located between the substrate and the dielectric layer, where a transverse dimension of the membrane in a direction perpendicular to the longitudinal direction is between 10 and 50 microns. An independent claim is also included for a method for development of a capacitive microelectromechanical system.

IPC 8 full level
H01P 1/12 (2006.01); **H01H 59/00** (2006.01)

CPC (source: EP)
H01P 1/127 (2013.01); **H01H 59/0009** (2013.01)

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