

Title (en)
ELECTROSTATIC MICROSWITCH FOR LOW-VOLTAGE-ACTUATION COMPONENTS

Title (de)
MIKROMECHANISCHER ELEKTROSTATISCHER SCHALTER MIT NIEDRIGER BETÄTIGUNGSSPANNUNG

Title (fr)
MICRO-COMMUTATEUR ELECTROSTATIQUE POUR COMPOSANT A FAIBLE TENSION D'ACTIONNEMENT

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Application
EP 03786074 A 20031127

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Abstract (en)
[origin: US2006164193A1] The invention relates to an electrostatic micro-switch intended to connect two conductor paths (4, 5) placed on a support, the connection between the two conductor paths being created by means of a contact stud (6) fitted to the distortion means (3) made in insulating material and capable of distorting in relation to the support, under the influence of an electrostatic force generated by control electrodes, the contact stud connecting the ends (14, 15) of the two conductor paths (4, 5) when the distortion means are sufficiently distorted. The control electrodes are laid out on the distortion means and the support in two sets of electrodes, a first set of electrodes (101, 102, 33, 53) intended to generate a first electrostatic force to initiate the distorting of the distortion means, a second set of electrodes (101, 102, 7, 8) intended to generate a second electrostatic force to continue the distorting of the distortion means (3) so that the contact stud (6) connects the ends (14, 15) of the two conductor paths.

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