Title (en)

MECHANICAL KEYBOARD WITH MEMBRANE SWITCH ARRAY

Publication

EP 0157035 B1 19930127 (EN)

Application

EP 84305716 A 19840822

Priority

GB 8408181 A 19840329

Abstract (en)

[origin: EP0157035A2] A key actuated membrane switch comprises a key operated switch actuating member 101 in the form of a key module and a membrane switch panel 111. The switch panel consists essentially of three membranes (112, 113, 114), one on top of the other, sealed together with adhesives. The upper and the bottom membranes (112, 113) are each continuous and each has at least one contact (115) and a respective conductor formed on its interior surface. The middle membrane (114) has at least one aperture (117) which defines a switch cell. The two contacts (115) are coaxially aligned with the aperture so that pressure on the upper membrane (112) along the axis of the aperture, causes the two contacts to come together and make a circuit. The membrane package is mounted, preferebly by an adhesive, on a rigid base 120. Pressure is selectively applied to the upper membrane by means of the key operated switch actuating member (101) via the agency of a cantilevered single-arm spring (104) which acts to apply leverage on the upper membrane (112) when the actuating member (101) is operated. The spring has a first portion which extends from the supported end of the spring in a plane parallel to the plane of the upper membrane to the vertical axis of the said contacts, and a

IPC 1-7

H01H 13/70

IPC 8 full level

H01H 13/70 (2006.01); **H01H 13/705** (2006.01)

CPC (source: EP)

H01H 13/705 (2013.01); H01H 2205/032 (2013.01); H01H 2235/024 (2013.01)

Cited by

US6591877B1; US4795897A

Designated contracting state (EPC)

AT BE CH DE FR IT LI LU NL SE

DOCDB simple family (publication)

EP 0157035 A2 19851009; **EP 0157035 A3 19870318**; **EP 0157035 B1 19930127**; AT E85155 T1 19930215; DE 3486059 D1 19930311; DE 3486059 T2 19930826

DOCDB simple family (application)

EP 84305716 A 19840822; AT 84305716 T 19840822; DE 3486059 T 19840822