

Title (en)  
VACUUM SWITCH

Publication  
**EP 0093414 B1 19870923 (DE)**

Application  
**EP 83104183 A 19830428**

Priority  
• DE 3216251 A 19820430  
• DE 8212546 U 19820430

Abstract (en)  
[origin: US4497990A] Vacuum switch tube, including a housing, a stationary and an axially movable contact being mutually aligned in the housing, a bellows vacuum-tightly connecting the movable contact to the housing, a stud bolt being connected to the stationary contact for mounting the switch tube, a ceramic tube being connected to the housing and having a given breaking pressure, a flange being concentric with the stud bolt, the flange being mechanically fixed and vacuum-tightly connected with the stud bolt, the flange being resiliently and vacuum-tightly connected with the ceramic tube for carrying the housing, and the flange being formed of a ring being easily elastically deformable in axial direction, a cylindrical wall being integral with the ring and a soldering flange integral with the cylindrical wall, and a hard solder connection with a given breaking pressure connecting the soldering flange to the ceramic tube, the flange having a modulus of elasticity permitting the flange to be elastically deformed upon the exertion of pressure on the ceramic tube in axial direction and perpendicular to axial direction and preventing the breaking force of the ceramic tube and the solder connection from being reached during the elastic deformation.

IPC 1-7  
**H01H 33/66**

IPC 8 full level  
**H01H 33/66** (2006.01); **H01H 33/662** (2006.01)

CPC (source: EP US)  
**H01H 33/66207** (2013.01 - EP US); **H01H 2033/66215** (2013.01 - EP US); **H01H 2033/66223** (2013.01 - EP US)

Cited by  
DE3803778A1

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CH FR GB LI SE

DOCDB simple family (publication)  
**EP 0093414 A2 19831109**; **EP 0093414 A3 19850515**; **EP 0093414 B1 19870923**; DE 3216251 A1 19831103; JP S58198811 A 19831118; US 4497990 A 19850205

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