

Title (en)
On-off switch

Title (de)
Ein-/Aus-Schalter

Title (fr)
Disjoncteur à deux positions

Publication
EP 0408842 B1 19961204 (DE)

Application
EP 90107518 A 19900420

Priority
DE 3923660 A 19890718

Abstract (en)
[origin: JPH0358601A] PURPOSE: To turn on/off a high frequency and large current by attaching a spring inside of bellows to apply its force to a contact surface thereby driving the bellows with fluid. CONSTITUTION: When compressed air is supplied to an inlet 15, the air reaches the inside of a hollow part 24 at the extended part of a contact part 4 housing the spring 16 and a corner part on a side depresses the lower side of the contact surface 25 as a contact head fixed to the metallic bellows 14. When force made by compressed air is larger than that of the spring 16 then, the bellows 14 is extended until the contact surface 25 is abutted to the contact part 3. Thereby, electrical contact is generated between the contact points 3 and 4 and a current flows between the contact points 3 and 4 through the bellows 14 and a projection part 21. Thereby a high frequency and large current is turned on/off stably and a switch is miniaturized.

IPC 1-7
H01H 35/32; **H01H 3/24**; **H01H 31/32**; **H01P 1/10**

IPC 8 full level
H01H 3/24 (2006.01); **H01H 31/32** (2006.01); **H01H 35/32** (2006.01); **H01P 1/10** (2006.01); **H01P 1/12** (2006.01)

CPC (source: EP US)
H01H 3/24 (2013.01 - EP US)

Cited by
EP1783796A3; EP3876253A1; FR3107986A1

Designated contracting state (EPC)
CH DE FR GB LI

DOCDB simple family (publication)
EP 0408842 A2 19910123; **EP 0408842 A3 19911127**; **EP 0408842 B1 19961204**; DE 3923660 A1 19910124; DE 59010589 D1 19970116; JP H0358601 A 19910313; US 5087800 A 19920211

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EP 90107518 A 19900420; DE 3923660 A 19890718; DE 59010589 T 19900420; JP 18516290 A 19900712; US 64270491 A 19910117