

Title (en)  
ON-OFF SWITCH

Publication  
**EP 0408842 A3 19911127 (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 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)

Citation (search report)  
• [YD] US 2794087 A 19570528 - EMMETT JONNINGS JO, et al  
• [Y] DE 1590360 A1 19700416 - ENGLISH ELECTRIC CO LTD  
• [A] DE 2939860 A1 19810416 - KIENZLE APPARATE GMBH [DE]  
• [A] GB 1182782 A 19700304 - ASS ELECT IND [GB]  
• [A] GB 1397878 A 19750618 - LEAFIELDS ENG LTD  
• [A] US 3407367 A 19681022 - KORDOS RONALD W

Cited by  
EP1783796A3; EP3876253A1; FR3107986A1

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