

Title (en)
AN AIR PRESSURE SWITCH, POWER SUPPLY DEVICE AND E-CIGARETTES CONTAINING THE SAME

Title (de)
LUFTDRUCKSCHALTER, STROMVERSORGUNGSEINRICHTUNG UND ZIGARETTEN DAMIT

Title (fr)
COMMUTATEUR DE PRESSION D'AIR, DISPOSITIF D'ALIMENTATION ÉLECTRIQUE ET CIGARETTES ÉLECTRONIQUES LE CONTENANT

Publication
EP 3742465 A1 20201125 (EN)

Application
EP 20175278 A 20200518

Priority
CN 201920715465 U 20190516

Abstract (en)
The present utility model discloses an air pressure switch, a power supply device using this air pressure switch, and an electronic cigarette using this power supply device. The air pressure switch includes a main body that includes a sensing area that will be triggered under negative pressure. The air pressure switch further includes a flexible protection film installed on the main body and at least the outer surface of the main body where sensing area is provided so that a first cavity is enclosed by the protective film and the surface of the main body where the sensing area is provided and formed. The protective film deforms away from the main body under the external suction force, so that the airflow in the first cavity can partially flow into the space generated by the deformation of the protective film.

IPC 8 full level
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Citation (search report)

- [YA] CN 208676373 U 20190402 - SHENZHEN IVPS TECH CO LTD & EP 3590363 A1 20200108 - SHENZHEN IVPS TECH CO LTD [CN]
- [Y] CN 109717519 A 20190507 - CHANGZHOU PAITENG ELECTRONIC TECH SERVICE CO LTD

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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EP 3742465 A1 20201125; **EP 3742465 B1 20221026**; CN 210869865 U 20200630; US 2020359697 A1 20201119

DOCDB simple family (application)
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