

Title (en)

POWERED AIR PURIFYING RESPIRATOR ASSEMBLY

Title (de)

ANGETRIEBENES LUFTREINIGENDES ATMUNGSGERÄT

Title (fr)

ENSEMBLE APPAREIL RESPIRATOIRE ÉLECTRIQUE PURIFIANT L'AIR

Publication

EP 3944878 A1 20220202 (EN)

Application

EP 21275099 A 20210726

Priority

GB 202011990 A 20200731

Abstract (en)

The present disclosure relates to a powered air purifying respirator assembly comprising: a blower unit for providing powered airflow including a blower housing (126) with an air inlet port (122); a filter cartridge (140) with a filter element (144), the filter cartridge comprising a connector portion (142) configured to be removably connected to the air inlet port (122) of the blower housing (126); and an inlet valve member (332) connected to the air inlet port and transferable between an open position, in which air can flow through the air inlet port (122) into the blower housing (126), and a closed position, in which the air inlet port (122) is sealed in an airtight and watertight manner, the inlet valve member (332) being biased towards its closed position, wherein the inlet valve member comprises an inlet valve actuator (336) for transferring the inlet valve member between its closed position and its open position, the inlet valve actuator (336) being arranged within the air inlet port (122) in such a way that the inlet valve actuator is movable by means of the connector portion (142) of the filter cartridge to transfer the inlet valve member (332) into its open position, when the connector portion (142) is inserted into the air inlet port, and wherein the inlet valve actuator (336) comprises a sealing member adapted to sealingly engage with the connector portion (142) when the connector portion is inserted into the air inlet port (122).

IPC 8 full level

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Citation (search report)

- [X] US 7101412 B2 20060905 - GOSSWEILER OTTO [CH]
- [A] EP 0310970 A1 19890412 - PIRELLI [IT], et al
- [A] US 10159856 B1 20181225 - WILKE DOUGLAS E [US], et al
- [A] US 2019151686 A1 20190523 - SPRINGER SEAN [US], et al

Designated contracting state (EPC)

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