

Title (en)
BREATHING APPARATUS

Title (de)
BEATMUNGSGERÄT

Title (fr)
RESPIRATEUR

Publication
EP 0773814 A4 19990707 (EN)

Application
EP 95926793 A 19950801

Priority

- AU 9500468 W 19950801
- AU PM719094 A 19940801
- AU PN190995 A 19950323
- AU PN191195 A 19950323
- AU PN310695 A 19950522

Abstract (en)
[origin: WO9604043A1] A forced air breathing apparatus which includes a face piece (20a) for covering at least the nose or mouth of a wearer, a pump unit (10) arranged to supply air to a space within the face piece (20a), a filter (13) to filter air entering the face piece (20a) and valve means to control the flow of air from the pump unit (20) to the face piece (20a) during inhalation and from the face piece (20a) during exhalation. The pump unit (20) includes a fan (12) driven by an electric motor (11). The valve means includes an air inlet valve (19) and an air outlet valve (22), the air outlet valve (22) being maintained in a closed position during inhalation through the air inlet valve (19) by air pressure from the pump unit (20) and being opened by exhaled air. The exhaled air also acts to close the air inlet valve (19) and prevents the entry of exhaled air to the pump unit (20). The fan (12) is a centrifugal fan driven at a substantially constant speed. A valve (14) is provided on the air inlet side of the pump unit (10) and is arranged to close when a defined air pressure is present within the pump unit (10) downstream of the fan (12).

IPC 1-7
A62B 7/00

IPC 8 full level
A62B 18/00 (2006.01)

CPC (source: EP)
A62B 18/006 (2013.01)

Citation (search report)
No further relevant documents disclosed

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9604043 A1 19960215; AT E285271 T1 20050115; CA 2196166 A1 19960215; CA 2196166 C 20040406; DE 69533874 D1 20050127; DE 69533874 T2 20051229; EP 0773814 A1 19970521; EP 0773814 A4 19990707; EP 0773814 B1 20041222; ES 2233946 T3 20050616

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AU 9500468 W 19950801; AT 95926793 T 19950801; CA 2196166 A 19950801; DE 69533874 T 19950801; EP 95926793 A 19950801; ES 95926793 T 19950801