

Title (en)

Respirator module with speech transmission and exhalation valve

Title (de)

Atemschutzgerätmodul mit Sprachübertragung und Ausatemungsventil

Title (fr)

Module d'appareil respiratoire avec clapet d'expiration et de transmission de la voix

Publication

EP 1614447 A1 20060111 (EN)

Application

EP 05021298 A 20020716

Priority

- EP 02752376 A 20020716
- US 30633301 P 20010718

Abstract (en)

A respirator speech transmitter and exhalation valve module includes an electrical communication block with internal and external fittings for connecting a microphone in the mask to a radio or amplifier carried by the mask user. The module comprises a resilient exhalation valve having a low airflow resistance for exhalation but providing a secure seal against inadvertent inhalation through the exhalation valve module. An exhalation airflow channel is formed between a module body on the outside of the channel and a conical airflow guide and the exhalation valve on the inside of the channel. The exhalation airflow channel is in the form of an amplification horn. The airflow channel produces a smooth airflow for unrestricted exhalation and high intelligibility of a user's speech. The module includes a drinking conduit for selectively fluidly connecting a mouthpiece in the respirator to a beverage container.

IPC 8 full level

A62B 18/08 (2006.01)

CPC (source: EP)

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Citation (search report)

- [AD] US 4958633 A 19900925 - ANGELL CYRIL N E [GB]
- [A] US 5101816 A 19920407 - WILCOX ORLAND W [US]

Cited by

KR100973996B1; US2022023679A1; WO2022157490A1; US11878124B2; WO2019093908A1

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