

Title (en)

AIR-FED PROTECTIVE SUIT WITH DETACHABLE BREATHING FILTER

Title (de)

SCHUTZANZUG MIT LUFTZUFUHR UND ABNEHMBAREM ATEMFILTER

Title (fr)

SCAPHANDRE AVEC ALIMENTATION D'AIR ET FILTRE RESPIRATOIRE DÉTACHABLE

Publication

EP 2829304 A1 20150128 (EN)

Application

EP 13178097 A 20130725

Priority

EP 13178097 A 20130725

Abstract (en)

Apparatus and associated methods relate to an air-fed protective suit (120, 200, 300, 400, 605, 705, 815) having a breathing filter (130, 205, 305, 415, 505, 620, 710, 810) detachably coupled to the suit. In some embodiments, the air-fed suit may have an interior tear strip (320, 330, 425) to provide for filter seal and/or for removal from the air-fed protective suit. In some examples, the air-fed suit may include a sealed flap (310, 500, 630, 720, 820) which the user (125, 135, 210) can open to expose the filter to the atmosphere exterior to the suit. Some embodiments may provide a user accessible mouthpiece (220, 420, 625, 805) connected to the filter via a breathing tube (205, 800) permitting the user to breathe the exterior atmosphere through the filter. The filter may perform tritium filtration (810) of exterior atmospheric gases inhaled therethrough, for example. When exiting a contaminated area (105), for example, a user may first enter an airlock (110), detach the filter, remove the suit and then exit the airlock while continuing to breathe through the detached filter.

IPC 8 full level

A62B 7/10 (2006.01); **A62B 17/00** (2006.01)

CPC (source: EP)

A62B 7/10 (2013.01); **A62B 17/006** (2013.01)

Citation (applicant)

EP 2583721 A2 20130424 - HONEYWELL INT INC [US]

Citation (search report)

- [A] EP 2583721 A2 20130424 - HONEYWELL INT INC [US]
- [A] FR 2941624 A1 20100806 - MATERIELS IND DE SECURITE [FR]
- [A] EP 0056613 A2 19820728 - WONG ALBERT H

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KR20180126991A; JP2021504103A; US11027156B2; US11123582B2; WO2017074329A1

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

DOCDB simple family (publication)

EP 2829304 A1 20150128; EP 2829304 B1 20170104

DOCDB simple family (application)

EP 13178097 A 20130725