

Title (en)

A SET OF PUMPS, AND A METHOD AND SYSTEM FOR EVACUATING A VACUUM CHAMBER IN A RADIOACTIVE ENVIRONMENT

Title (de)

SATZ VON PUMPEN SOWIE VERFAHREN UND SYSTEM ZUM EVAKUIEREN EINER VAKUUMKAMMER IN EINER RADIOAKTIVEN UMGEBUNG

Title (fr)

ENSEMBLE DE POMPES, ET PROCÉDÉ ET SYSTÈME D'ÉVACUATION D'UNE CHAMBRE À VIDE DANS UN ENVIRONNEMENT RADIOACTIF

Publication

**EP 3867529 A1 20210825 (EN)**

Application

**EP 19794211 A 20191016**

Priority

- GB 201816975 A 20181018
- GB 2019052946 W 20191016

Abstract (en)

[origin: WO2020079428A1] A set of pumps, method and system for providing a high vacuum within a radioactive environment is disclosed. The set of pumps comprise: a primary pump configured for operation outside of the radioactive environment and configured to connect to a chamber within the radioactive environment via a conduit, the primary pump being configured to evacuate the chamber to a first pressure; a radiation resistant intermediate pump configured for operation within the radioactive environment and configured to evacuate the chamber from the first pressure to a second lower pressure; and a radiation resistant high vacuum pump configured for operation within the radioactive environment and configured to evacuate the chamber from the second lower pressure to a third operational vacuum pressure.

IPC 8 full level

**F04B 37/02** (2006.01); **F04B 37/14** (2006.01); **F04B 41/06** (2006.01); **F04F 9/00** (2006.01)

CPC (source: EP GB)

**F04B 37/02** (2013.01 - EP GB); **F04B 37/14** (2013.01 - EP GB); **F04B 41/06** (2013.01 - EP); **F04F 9/00** (2013.01 - EP)

Citation (search report)

See references of WO 2020079428A1

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)

**WO 2020079428 A1 20200423**; EP 3867529 A1 20210825; GB 201816975 D0 20181205; GB 2578293 A 20200506

DOCDB simple family (application)

**GB 2019052946 W 20191016**; EP 19794211 A 20191016; GB 201816975 A 20181018