

Title (en)

VACUUM PUMP SYSTEM AND METHOD FOR OPERATING A VACUUM PUMP SYSTEM

Title (de)

VAKUUMPUMPEN-SYSTEM SOWIE VERFAHREN ZUM BETREIBEN EINES VAKUUMPUMPEN-SYSTEMS

Title (fr)

SYSTÈME DE POMPE À VIDE ET PROCÉDÉ POUR FAIRE FONCTIONNER UN SYSTÈME DE POMPE À VIDE

Publication

EP 3071837 A1 20160928 (DE)

Application

EP 14793138 A 20141104

Priority

- DE 102013223556 A 20131119
- EP 2014073681 W 20141104

Abstract (en)

[origin: WO2015074865A1] The invention relates to a vacuum pump system comprising a vacuum pump (10), in particular in the form of a screw pump. Said system is used for evacuating a chamber (16). When a desired set pressure in the chamber (16) is reached, the vacuum pump system can be operated in a standby mode. To this end, an outlet conduit (22) is connected to an inlet conduit (30) via a bypass conduit (24). In standby mode, the inlet valve (18) is closed and a bypass valve (26) is open, such that medium in the circuit can be conveyed by the vacuum pump (10). As a result, the vacuum pump is maintained substantially at operating temperature.

IPC 8 full level

F04C 25/02 (2006.01); **F04C 28/02** (2006.01); **F04C 28/06** (2006.01); **F04C 28/08** (2006.01)

CPC (source: EP KR)

F04C 18/16 (2013.01 - KR); **F04C 25/02** (2013.01 - EP KR); **F04C 28/02** (2013.01 - EP KR); **F04C 28/06** (2013.01 - EP KR); **F04C 28/08** (2013.01 - EP KR); **F04C 18/16** (2013.01 - EP); **F04C 2220/12** (2013.01 - EP KR)

Citation (search report)

See references of WO 2015074865A1

Citation (examination)

CN 202468224 U 20121003 - SICHUAN KELUN PHARMACEUTICAL

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 2015074865 A1 20150528; CN 105829723 A 20160803; CN 105829723 B 20180216; DE 102013223556 A1 20150521; EP 3071837 A1 20160928; KR 20160085782 A 20160718

DOCDB simple family (application)

EP 2014073681 W 20141104; CN 201480062828 A 20141104; DE 102013223556 A 20131119; EP 14793138 A 20141104; KR 20167012915 A 20141104