

Title (en)

DEVICE FOR PRODUCING AND PROVIDING A VACUUM, AND VENTILATION VALVE

Title (de)

VORRICHTUNG ZUM ERZEUGEN UND BEREITSTELLEN EINES UNTERDRUCKS, SOWIE BELÜFTUNGSVENTIL

Title (fr)

DISPOSITIF POUR CRÉER ET FOURNIR UN VIDE AINSI QUE SOUPAPE D'ENTRÉE D'AIR

Publication

EP 2291304 A2 20110309 (DE)

Application

EP 09772394 A 20090629

Priority

- EP 2009058105 W 20090629
- DE 102008032242 A 20080701

Abstract (en)

[origin: WO2010000694A2] The invention relates to a device for producing and providing a vacuum for a vacuum consumer, having a vacuum source, having a suction valve, having a non-return valve arranged between the vacuum consumer and the suction valve, and having a ventilation valve, the control inlet of which ventilation valve is connected to the suction port of the vacuum source, the output of which ventilation valve opens out between the control valve and the non-return valve, and the input of which ventilation valve is open to the environment.

IPC 8 full level

B60T 13/52 (2006.01); **B60T 17/02** (2006.01)

CPC (source: EP US)

B60T 13/52 (2013.01 - EP US); **B60T 17/02** (2013.01 - EP US); **Y10T 137/7838** (2015.04 - EP US); **Y10T 137/7842** (2015.04 - EP US);
Y10T 137/7876 (2015.04 - EP US); **Y10T 137/87981** (2015.04 - EP US)

Citation (search report)

See references of WO 2010000694A2

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

DE 102008032242 A1 20100107; DE 102008032242 B4 20150305; CN 102015394 A 20110413; CN 102015394 B 20130703;
EP 2291304 A2 20110309; JP 2011526554 A 20111013; JP 5242783 B2 20130724; US 2011126922 A1 20110602; US 8973604 B2 20150310;
WO 2010000694 A2 20100107; WO 2010000694 A3 20100610

DOCDB simple family (application)

DE 102008032242 A 20080701; CN 200980116138 A 20090629; EP 09772394 A 20090629; EP 2009058105 W 20090629;
JP 2011515408 A 20090629; US 99921509 A 20090629