

Title (en)
VACUUM DEVICE FOR PLANTS FOR THE PROCESSING OF CONTAINERS, AND METHOD FOR CONTROLLING A VACUUM DEVICE

Title (de)
VAKUUMEINRICHTUNG FÜR ANLAGEN ZUR BEHANDLUNG VON BEHÄLTERN SOWIE VERFAHREN ZUR STEUERUNG EINER VAKUUMEINRICHTUNG

Title (fr)
DISPOSITIF DE PRODUCTION DE VIDE DESTINÉ À DES INSTALLATIONS DE TRAITEMENT DE RÉCIPIENTS ET PROCÉDÉ DE COMMANDE D'UN DISPOSITIF DE PRODUCTION DE VIDE

Publication
EP 2748104 B1 20150930 (DE)

Application
EP 12743680 A 20120801

Priority
• DE 102011111188 A 20110825
• EP 2012003266 W 20120801

Abstract (en)
[origin: WO2013026522A1] A vacuum device (3) for generating negative pressure in plants for the processing of containers (2), in particular in plants for filling containers (2) with a liquid product, having a vacuum source, the vacuum and/or suction power of which can be controlled and/or regulated. The vacuum source of the vacuum device (3) is formed by at least two electrically driven vacuum pumps (4.1 - 4.3) designed for parallel operation, and the overall vacuum or suction power of the vacuum device (3) can be controlled, for example by means of a control and regulating unit (5), by way of the number of respectively activated vacuum pumps (4.1 - 4.3).

IPC 8 full level
B67C 3/02 (2006.01); **B67C 7/00** (2006.01)

CPC (source: EP US)
B67C 3/02 (2013.01 - EP US); **B67C 7/0073** (2013.01 - EP US); **F04B 37/14** (2013.01 - US); **F04B 41/06** (2013.01 - US); **F04B 49/06** (2013.01 - US); **F04B 49/20** (2013.01 - US); **B67C 2003/2688** (2013.01 - EP US)

Citation (opposition)
Opponent : Krones AG
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• WO 02064174 A1 20020822 - STERIS INC [US]
• DE 19916478 A1 20001019 - RUEDIGER HAAGA GMBH [DE]
• US 4589945 A 19860520 - POLIT NEIL A [US]
• DE 10028290 A1 20011213 - KRONES AG [DE]
• US 2003068233 A1 20030410 - ROYCE DOUGLAS [US], et al
• DE 202009016578 U1 20100325 - EREMA [AT]
• DE 19941456 C1 20010412 - SASIB BEVERAGE DEUTSCHLAND GMB [DE]
• DE 10300734 A1 20040722 - SIG TECHNOLOGY LTD [CH]
• DE 19826169 A1 19991216 - KAESER KOMPRESSOREN GMBH [DE]
• DE 7441311 U 19760701
• JP S60147586 A 19850803 - HITACHI LTD
• JP S59211782 A 19841130 - MITSUBISHI ELECTRIC CORP
• US 7480544 B2 20090120 - WANG CHI-YI [TW], et al
• US 7955056 B2 20110607 - PETTERSSON JOHAN GEORG URBAN [BE]
• U. DAEBEL ET AL.: "Vakuumerzeugung für den Abfüllprozess", BRAUWEIT, NR. 39/40, 2004, pages 1198 - 1201, XP055294661

Designated contracting state (EPC)
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DOCDB simple family (application)
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