

Title (en)
VACUUM GENERATOR

Title (de)
VAKUUMERZEUGERVORRICHTUNG

Title (fr)
DISPOSITIF POUR CREER LE VIDE

Publication
EP 1299649 A1 20030409 (DE)

Application
EP 01949425 A 20010621

Priority
• DE 10033212 A 20000707
• EP 0106997 W 20010621

Abstract (en)
[origin: WO0204817A1] The invention relates to a vacuum generator (1) comprising a main suction nozzle unit (2) with an upstream shut-off valve (27), and a supplementary suction nozzle unit (3) that is mounted in parallel to the main suction nozzle unit (2). While the supply with pressure medium of the main suction nozzle unit (2) is controlled depending on the generated negative pressure by controlling the shut-off valve (27), the supplementary suction nozzle unit (3) remains permanently operative, thereby ensuring a complete build-up of a vacuum in connection with a complete shut-off of the main suction nozzle unit (2) and a resulting air-saving effect.

IPC 1-7
F04F 5/20; **F04F 5/52**

IPC 8 full level
F04F 5/20 (2006.01); **F04F 5/52** (2006.01)

CPC (source: EP US)
F04F 5/20 (2013.01 - EP US); **F04F 5/52** (2013.01 - EP US); **Y10S 137/907** (2013.01 - EP US); **Y10T 137/2218** (2015.04 - EP US); **Y10T 137/86083** (2015.04 - EP US)

Citation (search report)
See references of WO 0204817A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0204817 A1 20020117; AT E386213 T1 20080315; DE 10033212 C1 20020124; DE 50113599 D1 20080327; EP 1299649 A1 20030409; EP 1299649 B1 20080213; ES 2298241 T3 20080516; JP 2004502904 A 20040129; US 2002144739 A1 20021010; US 7140389 B2 20061128

DOCDB simple family (application)
EP 0106997 W 20010621; AT 01949425 T 20010621; DE 10033212 A 20000707; DE 50113599 T 20010621; EP 01949425 A 20010621; ES 01949425 T 20010621; JP 2002509654 A 20010621; US 7045402 A 20020306