

Title (en)  
SIDE-CHANNEL BLOWER/ASPIRATOR WITH AN IMPROVED IMPELLER

Title (de)  
SEITENKANAL BLÄSER/SAUGER MIT VERBESSERTEM LAUFRAD

Title (fr)  
SOUFFLEUR/ASPIRATEUR À CANAL LATÉRAL AVEC HÉLICE AMÉLIORÉE

Publication  
**EP 3199816 A1 20170802 (EN)**

Application  
**EP 16153453 A 20160129**

Priority  
EP 16153453 A 20160129

Abstract (en)  
The side-channel blower / aspirator (1), comprises an impeller (2) equipped with a plurality of blades (21) and a casing (13, 14), in which the impeller (2) is enclosed and within which an annular conduit (C) is defined in which the blades (21) rotate. The blades (21) comprise at least one longitudinally curved portion, defining a concavity (23) facing the advancement direction of the blades (21) within the conduit.

IPC 8 full level  
**F04D 23/00** (2006.01); **F04D 29/28** (2006.01); **F04D 29/30** (2006.01)

CPC (source: EP US)  
**F04D 17/16** (2013.01 - US); **F04D 23/008** (2013.01 - EP US); **F04D 29/281** (2013.01 - EP US); **F04D 29/30** (2013.01 - EP US)

Citation (search report)

- [XY] US 2013266434 A1 20131010 - BLACKBURN CHRISTOPHER LEE [US]
- [X] JP 2011140884 A 20110721 - TERAL INC
- [X] EP 1672222 A2 20060621 - GARDNER DENVER ELMO TECHNOLOGY [DE]
- [XA] DE 10249244 A1 20040506 - DUERR DENTAL GMBH CO KG [DE]
- [XY] DE 19955955 A1 20010613 - SIEMENS AG [DE]

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)  
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DOCDB simple family (application)  
**EP 16153453 A 20160129**; DK 16153453 T 20160129; ES 16153453 T 20160129; PL 16153453 T 20160129; US 201715415282 A 20170125