

Title (en)
Vortex flow blower

Title (de)
Seitenkanalgebläse

Title (fr)
Soufflante à courant annulaire

Publication
EP 0477650 B1 19960529 (EN)

Application
EP 91115274 A 19910910

Priority
• JP 24232390 A 19900914
• JP 27632490 A 19901017
• JP 27901390 A 19901019
• JP 27901490 A 19901019
• JP 27901590 A 19901019

Abstract (en)
[origin: EP0477650A2] A vortex flow blower includes a blower casing (3) having an annular flow passageway (3a) extending from an inlet port (3b) for receiving fluid to an outlet port (3c) for discharging the fluid, the outlet port (3c) being disposed adjacent to the inlet port (3b), an impeller (1) accommodated in the blower casing (3) for producing a vortex flow of the fluid in the annular flow passageway (3a), and a driver (30) for driving the impeller (1). Further, the vortex flow blower includes a member and/or a configuration thereof for enabling at least one of a reduction of temperature of the fluid discharged from the vortex flow blower, an increase in at least one of flow rate and pressure of the discharge fluid, a reduction in noise level of the vortex flow blower, and a compact configuration of the vortex flow blower. <IMAGE>

IPC 1-7
F04D 23/00; **F04D 29/04**; **F04D 29/66**; **F04D 29/58**; **F04D 5/00**

IPC 8 full level
F04D 23/00 (2006.01); **F04D 29/04** (2006.01); **F04D 29/059** (2006.01); **F04D 29/58** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP KR)
F04D 23/008 (2013.01 - EP); **F04D 25/06** (2013.01 - EP); **F04D 25/082** (2013.01 - EP); **F04D 29/059** (2013.01 - EP); **F04D 29/441** (2013.01 - EP); **F04D 29/5806** (2013.01 - EP); **F04D 29/5826** (2013.01 - EP); **F04D 29/584** (2013.01 - EP); **F04D 29/66** (2013.01 - KR); **F04D 29/661** (2013.01 - EP)

Cited by
FR2708678A1; EP2233749A4; WO2023184655A1; EP2166232A1; WO2019201448A1; WO2008125630A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0477650 A2 19920401; **EP 0477650 A3 19920715**; **EP 0477650 B1 19960529**; DE 69119854 D1 19960704; DE 69119854 T2 19961010; KR 100190424 B1 19990601; KR 920006657 A 19920427

DOCDB simple family (application)
EP 91115274 A 19910910; DE 69119854 T 19910910; KR 910016039 A 19910914