

Title (en)
Bi-directional axial-flow blower

Title (de)
Axialgebläse mit umkehrbaren Strömungsrichtung

Title (fr)
Ventilateur axial bidirectionnel

Publication
EP 0606108 B1 19970305 (EN)

Application
EP 94102599 A 19910717

Priority
• EP 91111960 A 19910717
• JP 18986890 A 19900718
• JP 25449890 A 19900925

Abstract (en)
[origin: EP0606108A1] A bi-directional axial-flow blower which requires no complex mechanism such as a rotor-reversing mechanism and employs a proper shape of rotor to enables air-blowing operation with high efficiency and low noise both in the forward and reverse directions. The bi-directional axial-flow blower for selectively sending a wind either in forward direction or in a reverse direction, comprises a cylindrical casing (3), an impeller (16) having airfoil blade rotors with camber provided in the casing (3), a drive motor (15) for driving the impeller (16) and wind-direction selecting means (19) for driving the casing (3) to rotate so that an inlet (3a) and an outlet (3b) of the wind path is reversed in accordance with the desired wind direction. <IMAGE>

IPC 1-7
F04D 19/00; **F04D 25/08**

IPC 8 full level
F04D 29/50 (2006.01); **F04D 19/00** (2006.01); **F04D 25/08** (2006.01); **F04D 27/00** (2006.01)

CPC (source: EP)
E21F 1/003 (2013.01); **F04D 19/005** (2013.01); **F04D 25/08** (2013.01)

Cited by
EP4065461A4; CN109899306A; CN1058774C; CN100443736C; CN103562062A; US11142433B2; GB2340888A; FR2723150A1; GB2334756A; CN109555714A; JP2019210767A; US11746951B2; US10288075B2; US11926415B2; US11142316B2; US11834174B2; US11834305B1; US11945697B2; US11620597B1; US11932402B2; US11992444B1

Designated contracting state (EPC)
CH DE FR GB LI

DOCDB simple family (publication)
EP 0606108 A1 19940713; **EP 0606108 B1 19970305**; JP 2712800 B2 19980216; JP H04175500 A 19920623

DOCDB simple family (application)
EP 94102599 A 19910717; JP 25449890 A 19900925