

Title (en)
AXIAL AND CENTRIFUGAL FAN

Publication
EP 0183655 B1 19910424 (EN)

Application
EP 85830277 A 19851104

Priority
IT 2378484 A 19841128

Abstract (en)
[origin: EP0183655A2] Electromechanical fan apparatus operable to provide a new type of ventilation comprises a rotor constituted by a rectangular frame (9, 10, 11) mounted to turn about an axis (6) lying in the plane of the frame and parallel to two opposite sides (9) thereof. These sides (9) of the frame, parallel to the axis of rotation (6), are constituted by blades having cylindrical surfaces, with the concavity directed towards the direction of movement, whilst the other two sides of the frame, orthogonal to the axis of rotation (6) are each constituted by two pairs of oppositely inclined blades (10, 10 min) also having cylindrically curved surfaces and a concavity facing in the direction of movement or in the opposite direction from this. The rotation of rotor (9, 10, 11) consequently causes axial displacement of air from both ends of the rotor, preferably drawing such air streams in and causing an intimate mixing thereof before the mixed air is expelled radially.

IPC 1-7
F04D 17/16; **F04D 25/08**

IPC 8 full level
F04D 17/16 (2006.01); **F04D 25/08** (2006.01)

CPC (source: EP)
F04D 17/16 (2013.01); **F04D 25/08** (2013.01)

Cited by
GB2374119A; GB2344384A; GB2344384B

Designated contracting state (EPC)
AT BE CH DE FR GB LI NL SE

DOCDB simple family (publication)
EP 0183655 A2 19860604; **EP 0183655 A3 19870902**; **EP 0183655 B1 19910424**; AT E62977 T1 19910515; DE 3582654 D1 19910529; IT 1196343 B 19881116; IT 8423784 A0 19841128

DOCDB simple family (application)
EP 85830277 A 19851104; AT 85830277 T 19851104; DE 3582654 T 19851104; IT 2378484 A 19841128