

Title (en)
AXIAL-FLOW VENTILATOR WITH PROTECTED ROTOR BLADES

Publication
EP 0051005 B1 19850619 (FR)

Application
EP 81401532 A 19811002

Priority
FR 8022273 A 19801017

Abstract (en)
[origin: ES269207U] A ventilator according to the invention comprises at least two blades fixed to a hub adapted to be made integral with a motor shaft, a protection grille integral with said hub, protecting the front of the ventilator and being extended on the periphery of the ventilator by an annular casing assuring the protection of the radial ends of the blades.

IPC 1-7
F04D 29/70; **F04D 29/32**

IPC 8 full level
F04D 29/32 (2006.01); **F04D 29/70** (2006.01); **F24F 7/013** (2006.01)

CPC (source: EP US)
F04D 29/326 (2013.01 - EP US); **F04D 29/703** (2013.01 - EP US); **Y10T 74/2191** (2015.01 - EP US)

Cited by
EP0474019A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
EP 0051005 A1 19820505; **EP 0051005 B1 19850619**; DE 3171043 D1 19850725; ES 269207 U 19830616; ES 269207 Y 19840116; FR 2492477 A1 19820423; FR 2492477 B1 19850104; JP S5797099 A 19820616; PT 73829 A 19811101; PT 73829 B 19830125; US 4456431 A 19840626

DOCDB simple family (application)
EP 81401532 A 19811002; DE 3171043 T 19811002; ES 269207 U 19811016; FR 8022273 A 19801017; JP 16356481 A 19811015; PT 7382981 A 19811015; US 31118781 A 19811014