

Title (en)
Controllable pitch fans.

Title (de)
Lüfter mit Steigerungskontrolle.

Title (fr)
Ventilateurs à pas variable.

Publication
EP 0155073 A2 19850918 (EN)

Application
EP 85300531 A 19850125

Priority
US 58916684 A 19840313

Abstract (en)
The pitch of the blades (22) of a fan is adjusted by a pneumatic piston and cylinder combination (48, 50) which rotates with the hub (20) of the fan. The cylinder element (50) is reciprocable axially with respect to the hub and is connected to the blades by a cam groove (92) in the cylinder element, and a plurality of cam followers (98) engaged in the groove for translating axial movement of the cylinder in one or other direction into pivotal movement of the blades to adjust the pitch of the blades. Pneumatic pressure is applied to the piston and cylinder combination to reciprocate the cylinder element (50) via a rotary union (82) which accommodates rotation of the combination.

IPC 1-7
F04D 29/36

IPC 8 full level
F04D 29/36 (2006.01)

CPC (source: EP)
F04D 29/362 (2013.01)

Cited by
CN111911435A; EP1921325A1; FR2908451A1; GB2296745A; CN110056520A; US8197213B2

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EP 85300531 A 19850125; AU 3697484 A 19841220; DK 111585 A 19850312; JP 343185 A 19850114; NO 850940 A 19850311; ZA 849335 A 19841129