

Title (en)

Axial fan for cooling the underhood of a farm machine

Title (de)

Axialgebläse zum Kühlen der unteren Motorhaube einer Landwirtschaftsmaschine

Title (fr)

Ventilateur axial pour refroidir le sous-capot d'une machine agricole

Publication

**EP 2031208 A2 20090304 (EN)**

Application

**EP 08162261 A 20080812**

Priority

IT MI20071681 A 20070821

Abstract (en)

Herein described is an axial fan for cooling the underhood of a farm machine, of the type made up of a rotor (10) provided with a plurality of blades (12) with a wing profile and a substantially radial development constrained against the central hub (14) of the rotor (10) at one of their first ends. Each blade (12) is made up of a first element or main profile (18) and by at least a second element or flap (20) arranged in proximity to the inlet edge (18') of the first element or main profile (18). A blading profile of such type allows pitch setting the blades with considerable angles of attack and obtaining high dynamic values, avoiding the occurrence of separations of the boundary layer from the top layer of the blade profile itself at the same time.

IPC 8 full level

**F01P 5/02** (2006.01); **F04D 19/00** (2006.01); **F04D 29/32** (2006.01); **F04D 29/38** (2006.01)

CPC (source: EP)

**F01P 5/02** (2013.01); **F04D 29/326** (2013.01); **F04D 29/327** (2013.01); **F04D 29/384** (2013.01); **F04D 29/388** (2013.01)

Citation (applicant)

- US 2005129518 A1 20050616 - HAVEL BRIAN [CA], et al
- DE 2850358 A1 19800529 - KURZER WOLFGANG ING GRAD
- DE 3740191 C1 19890119 - PETZ GUENTER
- US 4599041 A 19860708 - STRICKER JOHN G [US]

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

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