

Title (en)

Device for cooling en electric motor for a turbo-fan.

Title (de)

Kühlvorrichtung für einen Elektromotor eines Turbolüfters.

Title (fr)

Dispositif de refroidissement d'un moteur électrique pour une soufflante.

Publication

**EP 0651161 A1 19950503 (EN)**

Application

**EP 94850190 A 19941026**

Priority

SE 9303599 A 19931102

Abstract (en)

This invention relates to a device for cooling an electric motor for a turbo-fan unit. The motor has a shaft (16) which extends through the motor (10) and which supports a turbo-fan impeller (20) which is placed outside a shell (11) belonging to the motor. The turbo-fan impeller rotates with a speed above 50.000 rpm thereby creating a primary air flow which via an outlet (35) escapes from the turbo-fan unit. The turbo-fan unit (20) comprises means by means of which a secondary air flow is created which at least partly cools the electric motor and which from one or several cooling air inlets (28,30) separated from the primary air flow <IMAGE>

IPC 1-7

**F04D 25/08**; **F04D 25/16**

IPC 8 full level

**F04D 25/08** (2006.01); **F04D 25/16** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP)

**F04D 25/06** (2013.01); **F04D 25/16** (2013.01); **F04D 29/5806** (2013.01)

Citation (search report)

- [Y] WO 9101450 A1 19910207 - KELLER LUFTECHNIK GMBH & CO KG [DE]
- [Y] US 5065063 A 19911112 - WATANABE YUJIRO [JP]
- [A] DE 3543833 A1 19871203 - LEITHNER JOACHIM [DE]
- [A] GB 1085565 A 19671004 - COLCHESTER WOODS
- [A] DE 1016887 B 19571003 - DIPL BERGING ALBRECHT GRAEFER, et al
- [A] CH 401335 A 19651031 - KOHL HANS [DE]
- [A] DE 689927 C 19400409 - PINTSCH JULIUS KG
- [ADP] WO 9415518 A1 19940721 - ELECTROLUX AB [SE], et al
- [Y] PATENT ABSTRACTS OF JAPAN vol. 15, no. 183 (E - 1065) 10 May 1991 (1991-05-10)

Cited by

EP1850012A1; FR2900449A1; CN108026937A; EP3348843A4; US8823224B2; US10638900B2

Designated contracting state (EPC)

DE DK ES FR GB IT NL SE

DOCDB simple family (publication)

**EP 0651161 A1 19950503**; **EP 0651161 B1 19980401**; CA 2134733 A1 19950503; CN 1107620 A 19950830; DE 69409326 D1 19980507; DE 69409326 T2 19981126; FI 945145 A0 19941101; FI 945145 A 19950503; JP H07167098 A 19950704; NO 944118 D0 19941028; NO 944118 L 19950503; RU 94040716 A 19961120; SE 9303599 D0 19931102; SE 9303599 L 19950503

DOCDB simple family (application)

**EP 94850190 A 19941026**; CA 2134733 A 19941031; CN 94118325 A 19941102; DE 69409326 T 19941026; FI 945145 A 19941101; JP 26966594 A 19941102; NO 944118 A 19941028; RU 94040716 A 19941101; SE 9303599 A 19931102