

Title (en)  
BLOWER DEVICE FOR THE COOLING-FLUID CIRCUIT OF A THERMAL ENGINE

Publication  
**EP 0183581 B1 19880107 (FR)**

Application  
**EP 85401993 A 19851014**

Priority  
FR 8416142 A 19841022

Abstract (en)  
[origin: EP0183581A1] 1. A ventilation device having sleeves, in particular for the cooling circuit of a thermal transfer fluid of a heat engine, comprising an inlet sleeve (17; 22) and an outlet sleeve (19; 23), one (17; 23) thereof being rotatable relative to the other and connecting the ends of the blades (2; 25) of a propeller (1; 23), characterised in that said sleeves are coaxial and juxtaposed, the thickness (ES; E19; E23) of the material constituting said outlet sleeve (19; 23) is at least equal to the thickness (EE; E17; E22) of the material constituting said inlet sleeve (17; 22) and the inside diameter (DS; DE19; D23) of said outlet sleeve (19; 23) is at least equal to the inside diameter (DE; DE17; D22) of the inlet sleeve (17; 22) and at the most equal to the inside diameter of the inlet sleeve (DE; D17; D22) plus the thickness (EE; E17; E22) of the inlet sleeve.

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**F04D 29/54**

IPC 8 full level  
**F01P 5/02** (2006.01); **F01P 11/10** (2006.01); **F04D 29/32** (2006.01); **F04D 29/42** (2006.01); **F04D 29/54** (2006.01)

CPC (source: EP)  
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Cited by  
GB2227793A; GB2227793B; EP0543694A1; US5342173A; GB2210416A; GB2210416B

Designated contracting state (EPC)  
DE GB IT SE

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**EP 0183581 A1 19860604**; **EP 0183581 B1 19880107**; DE 3561347 D1 19880211; ES 290163 U 19860401; ES 290163 Y 19861116; FR 2572130 A1 19860425; FR 2572130 B1 19870213; JP S61182415 A 19860815

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