

Title (en)  
Centripetal air bleed device

Title (de)  
Zentripetale Abblasvorrichtung

Title (fr)  
Dispositif de prélèvement centripète

Publication  
**EP 1329639 B1 20080312 (FR)**

Application  
**EP 03290061 A 20030110**

Priority  
FR 0200519 A 20020117

Abstract (en)  
[origin: EP1329639A1] An annular groove (12) is linked with a stream (5) via an interstice (13). The groove is fitted with a fixed air guide (20) which imparts a centripetal swirling motion on air flowing in the groove. The centripetal swirling motion rotates in the same direction as the compressor to reduce the velocity of air entering into the holes (14) of an outer shroud (9).

IPC 8 full level  
**F04D 29/54** (2006.01); **F01D 5/08** (2006.01); **F01D 17/10** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP US)  
**F01D 5/087** (2013.01 - EP US); **F04D 29/321** (2013.01 - EP US); **F04D 29/542** (2013.01 - EP US); **F04D 29/584** (2013.01 - EP US)

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 1329639 A1 20030723**; **EP 1329639 B1 20080312**; CA 2416157 A1 20030717; CA 2416157 C 20110517; DE 60319607 D1 20080424; DE 60319607 T2 20090402; FR 2834758 A1 20030718; FR 2834758 B1 20040402; RU 2295656 C2 20070320; US 2003133787 A1 20030717; US 6908278 B2 20050621

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**EP 03290061 A 20030110**; CA 2416157 A 20030115; DE 60319607 T 20030110; FR 0200519 A 20020117; RU 2003102223 A 20030117; US 34518403 A 20030116