

Title (en)

Cooling air withdrawal from the outside of a diffuser of a gas turbine compressor stage

Title (de)

Kühlluftentnahme auf der Gehäuseseite eines Diffusors einer Kompressorstufe von Gasturbinen

Title (fr)

Prélèvement d' air de refroidissement du côté extérieur d' un diffuseur d' un compresseur de turbine à gaz

Publication

**EP 0947707 A3 20010228 (DE)**

Application

**EP 99101372 A 19990126**

Priority

DE 19814627 A 19980401

Abstract (en)

[origin: EP0947707A2] The cooling air removal device is so formed that the cooling air is removed on one side through apertures (6) on the housing side (20.1) of the diffuser and is fed through cooling air channels (10) to the parts fed with hot gas including also the outer wall of the cuff tube. The compressed air is conducted through cooling air holes (19) in the diffuser blades (3) to the diffuser exterior (20.2).

IPC 1-7

**F04D 29/44**

IPC 8 full level

**F02C 7/18** (2006.01); **F04D 29/44** (2006.01); **F04D 29/54** (2006.01)

CPC (source: EP US)

**F04D 29/444** (2013.01 - EP US); **F04D 29/682** (2013.01 - EP US); **F05D 2250/52** (2013.01 - EP US); **Y10S 415/914** (2013.01 - EP US)

Citation (search report)

- [XY] US 2656096 A 19531020 - SCHWARZ MARCEL G
- [Y] US 4131389 A 19781226 - PERRONE GEORGE L, et al
- [A] EP 0280205 A2 19880831 - KLOECKNER HUMBOLDT DEUTZ AG [DE]
- [A] US 4368005 A 19830111 - EXLEY JOHN T, et al
- [A] US 4445816 A 19840501 - RIBAUD YVES J [FR], et al

Cited by

US11326619B2; WO2019034740A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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**EP 0947707 A2 19991006**; **EP 0947707 A3 20010228**; **EP 0947707 B1 20040908**; CA 2265164 A1 19991001; CA 2265164 C 20050906; DE 19814627 A1 19991014; DE 19814627 C2 20010222; DE 59910423 D1 20041014; JP 4019391 B2 20071212; JP H11343866 A 19991214; US 6155777 A 20001205

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**EP 99101372 A 19990126**; CA 2265164 A 19990309; DE 19814627 A 19980401; DE 59910423 T 19990126; JP 11268499 A 19990317; US 25657599 A 19990224