

Title (en)

Systems and methods involving variable vanes

Title (de)

Systeme und Verfahren mit variablen Schaufeln

Title (fr)

Systèmes et procédés incorporant des vannes variables

Publication

EP 2014871 A3 20110831 (EN)

Application

EP 08252364 A 20080710

Priority

US 77552307 A 20070710

Abstract (en)

[origin: EP2014871A2] Systems and methods involving vanes are provided. In this regard, a representative method for modifying the throat area between vanes of a gas turbine engine includes: directing a gas flow path of the gas turbine engine between a first vane (406) and a second vane (412), wherein each of the first vane and the second vane has an outer surface and an interior; and emitting pressurized air from outlet ports (410) communicating between the outer surface and the interior (404) of the first vane, wherein the emitted pressurized air from the first vane modifies a throat area (416) between the first vane (406) and the second vane (412).

IPC 8 full level

F01D 5/14 (2006.01); **F01D 9/04** (2006.01)

CPC (source: EP US)

F01D 5/145 (2013.01 - EP US); **F01D 5/146** (2013.01 - EP US); **F01D 5/148** (2013.01 - EP US); **F01D 9/04** (2013.01 - EP US); **F05D 2270/17** (2013.01 - EP US)

Citation (search report)

- [X] EP 0164539 A1 19851218 - KONGSBERG VAPENFAB AS [NO]
- [X] FR 1499216 A 19671027 - SNECMA
- [X] US 2825532 A 19580304 - MARCEL KADOSCH, et al

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CN109477417A; US9617868B2; US8573946B2; WO2014133612A1; WO2020236329A1

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)

AL BA MK RS

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