

Title (en)

GAS TURBINE VANE STAGE WITH HALF VANES INTEGRAL WITH AN OUTER CASE AND AN INNER SHROUD

Title (de)

LEITSCHAUFELSTUFE EINER GASTURBINE MIT HALBSCHAUFELN EINSTUECKIG MIT EINEM AUSSENGEHAEUSE UND EINEM INNENDECKBAND

Title (fr)

ETAGE STATORIQUE D'UNE TUBINE À GAZ AVEC DEMI-AUBES MONOBLOC AVEC UN CARTER EXTÉRIEURE ET UNE VIROLE INTERNE

Publication

**EP 3650637 A1 20200513 (EN)**

Application

**EP 19195967 A 20190906**

Priority

US 201816184632 A 20181108

Abstract (en)

A vane stage includes a ringcase (62) extending circumferentially about a center axis (CA) of the vane stage. The ringcase (62) extends completely about the center axis (CA) to form a first ring. An inner shroud (64) extends circumferentially about the center axis (CA) of the vane stage. The inner shroud (64) extends completely about the center axis (CA) to form a second ring positioned radially within the ringcase (62) relative the center axis (CA). A plurality of stationary half vanes (66) extend radially between the ringcase (62) and the inner shroud (64), and are circumferentially spaced about the center axis (CA). The plurality of stationary half vanes (66) are integral with the ringcase (62) and the inner shroud (64).

IPC 8 full level

**F01D 5/14** (2006.01); **F01D 9/04** (2006.01); **F01D 17/14** (2006.01); **F01D 17/16** (2006.01); **F01D 25/24** (2006.01); **F04D 29/54** (2006.01)

CPC (source: EP)

**F01D 5/146** (2013.01); **F01D 9/042** (2013.01); **F01D 17/14** (2013.01); **F01D 17/16** (2013.01); **F01D 17/162** (2013.01); **F01D 25/24** (2013.01); **F04D 29/023** (2013.01); **F04D 29/563** (2013.01); **F05D 2230/53** (2013.01)

Citation (search report)

- [XAY] US 3990810 A 19761109 - AMOS DAVID J, et al
- [XY] US 2005109011 A1 20050526 - COURTOT YANNICK [FR], et al
- [A] EP 1340894 A2 20030903 - GEN ELECTRIC [US]

Cited by

US2021284333A1; US11661183B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3650637 A1 20200513; EP 3650637 B1 20211027**

DOCDB simple family (application)

**EP 19195967 A 20190906**