

Title (en)
INNER SHROUD AND ORIENTABLE VANE OF AN AXIAL TURBOMACHINE COMPRESSOR AND MANUFACTURING PROCESS

Title (de)
INNENRING UND AUSRICHTBARE LEITSCHAUFEL EINES KOMPRESSORS EINES AXIALEN TURBOTRIEBWERKS UND HERSTELLUNGSVERFAHREN

Title (fr)
VIROLE INTERNE ET AUBE ORIENTABLE DE COMPRESSEUR DE TURBOMACHINE AXIALE ET PROCÉDÉ D'ASSEMBLAGE

Publication
EP 3290656 A1 20180307 (FR)

Application
EP 17186472 A 20170816

Priority
BE 201605663 A 20160830

Abstract (en)
[origin: CA2976930A1] An assembly for the compressor stator of a turbomachine includes: a shroud, possibly an inner shroud, which is axially divided into two parts; a pocket formed in the shroud; a bearing located in the pocket; and an orientable vane pivotably mounted in the bearing about a pivot axis. The shroud includes an axial interface separating the parts which is axially offset from the pivot axis of the orientable vane. A process for assembling the assembly includes fitting the first part of the inner shroud, radially inserting the orientable vane into an outer support, radially engaging the bearing, and fitting the second part of the inner shroud.

Abstract (fr)
L'invention propose un ensemble pour stator de compresseur de turbomachine. L'ensemble comprend : une virole (30), éventuellement une virole interne (30), qui est divisée axialement en deux parties ; une poche formée dans la virole (30); un palier (32) disposé dans la poche ; et une aube orientable (26) montée de manière pivotante dans le palier (32) autour d'un axe de pivotement (80). La virole (30) comprend une interface de séparation axiale (68) des parties (60 ; 62) qui est décalée axialement de l'axe de pivotement (80) de l'aube orientable (26). L'invention propose également un procédé d'assemblage de l'ensemble.

IPC 8 full level
F01D 9/04 (2006.01); **F01D 17/16** (2006.01); **F04D 29/56** (2006.01)

CPC (source: CN EP US)
F01D 9/042 (2013.01 - EP US); **F01D 17/162** (2013.01 - EP US); **F04D 29/056** (2013.01 - CN); **F04D 29/083** (2013.01 - EP US); **F04D 29/542** (2013.01 - CN US); **F04D 29/563** (2013.01 - EP US); **F05B 2240/12** (2013.01 - EP US); **F05D 2240/50** (2013.01 - EP US); **F05D 2240/80** (2013.01 - EP US)

Citation (applicant)
FR 3009335 A1 20150206 - SNECMA [FR]

Citation (search report)
• [X] US 2012082545 A1 20120405 - PECK BRIAN [US], et al
• [X] GB 749577 A 19560530 - HAVILLAND ENGINE CO LTD, et al
• [X] EP 0298894 A1 19890111 - UNITED TECHNOLOGIES CORP [US]
• [X] US 4834613 A 19890530 - HANSEN LEE E [US], et al
• [X] FR 2824593 A1 20021115 - SNECMA MOTEURS [FR]

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 3290656 A1 20180307; **EP 3290656 B1 20210929**; BE 1024524 A1 20180323; BE 1024524 B1 20180326; CA 2976930 A1 20180228; CN 107795525 A 20180313; CN 107795525 B 20220104; US 11512713 B2 20221129; US 2018058471 A1 20180301

DOCDB simple family (application)
EP 17186472 A 20170816; BE 201605663 A 20160830; CA 2976930 A 20170822; CN 201710755808 A 20170829; US 201715681162 A 20170818