

Title (en)

GAS TURBINE COMPRISING A COMBUSTOR WITH A COMBUSTOR OUTLET AND A FIRST ROW OF ROCKING VANES

Title (de)

GASTURBINE MIT EINER BRENNKAMMER MIT EINEM BRENNKAMMERAUSGANG UND EINER ERSTEN REIHE VON KIPPSCHAUFELN

Title (fr)

TURBINE À GAZ COMPRENANT UNE CHAMBRE DE COMBUSTION AVEC UNE SORTIE DE CHAMBRE DE COMBUSTION ET UNE PREMIÈRE RANGÉE D'AUBES BASCULANTES

Publication

EP 3075959 A1 20161005 (EN)

Application

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Priority

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Abstract (en)

A gas turbine (10) comprises a combustor with a combustor outlet and a first row of rocking vanes (12) arranged at said combustor outlet in sealing relationship with said combustor outlet, whereby said rocking vanes (12) each comprise an airfoil (13) with a leading edge (13a) and a trailing edge (13b) extending between an inner platform (15) and an outer platform (14), and whereby said rocking vanes (12) are each hooked with their outer platform (14) into a turbine vane carrier (17) thereby defining a rotation point (19) for a rotational movement of said rocking vanes (12). The rocking vane movements and the axial force on the inner platform are reduced by moving said rotation point (19) to the leading edge (13a) of said rocking vanes (12).

IPC 8 full level

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CPC (source: EP)

F01D 9/023 (2013.01); **F01D 9/042** (2013.01); **F01D 11/005** (2013.01); **F05D 2220/3212** (2013.01); **F05D 2230/642** (2013.01); **F05D 2260/941** (2013.01)

Citation (applicant)

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- US 7762766 B2 20100727 - SHTEYMAN YEVGENIY [US], et al
- US 8356981 B2 20130122 - COOKE PHILIP J [GB], et al

Citation (search report)

- [XA] GB 2061396 A 19810513 - ROLLS ROYCE
- [A] EP 1908924 A2 20080409 - ROLLS ROYCE PLC [GB]
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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

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