

Title (en)
Inlet segment for a flow machine

Title (de)
Einströmsegment für eine Strömungsmaschine

Title (fr)
Segment d'entrée de flux pour une turbomachine

Publication
EP 2685051 A1 20140115 (DE)

Application
EP 12176161 A 20120712

Priority
EP 12176161 A 20120712

Abstract (en)
The machine has a rotor mounted rotatably about a rotational axis (2), and blades arranged on the rotor, where guide vanes are mounted in a housing arranged around the rotor. A flow channel is formed between the rotor and the housing, and an inflow is arranged for inflow of vapor in the housing. An inflow segment is placed in the housing, where inflow segment-guide vanes (27) are arranged in the inflow segment. Bores (29) are arranged in the inflow segment, and a fluidic connection is formed between the inflow and a relief space arranged between the inflow segment and the rotor.

Abstract (de)
Die Erfindung betrifft eine Strömungsmaschine umfassend ein Einströmsegment (21), das eine Einströmsegment-Leitschaufel (27) trägt und Bohrungen (29), wobei durch diese Bohrungen (29) ein Teilmassenstrom (M 1) zu einem Entlastungsraum (30) gelangt und zu einer Kühlung führt.

IPC 8 full level
F01D 9/04 (2006.01); **F01D 9/06** (2006.01); **F01D 25/24** (2006.01)

CPC (source: EP KR US)
F01D 3/02 (2013.01 - US); **F01D 9/02** (2013.01 - US); **F01D 9/04** (2013.01 - EP KR US); **F01D 9/041** (2013.01 - EP KR US);
F01D 9/06 (2013.01 - EP US); **F01D 9/065** (2013.01 - EP KR US); **F01D 25/24** (2013.01 - EP KR US); **F05B 2220/301** (2013.01 - EP KR US)

Citation (search report)

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- [A] JP H09125909 A 19970513 - MITSUBISHI HEAVY IND LTD
- [A] US 3429557 A 19690225 - BRANDON RONALD E, et al
- [A] EP 2343443 A2 20110713 - TOSHIBA KK [JP]

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 2685051 A1 20140115; CN 104471193 A 20150325; CN 104471193 B 20160824; EP 2859192 A1 20150415; EP 2859192 B1 20160525;
IN 10499DEN2014 A 20150821; JP 2015522130 A 20150803; JP 5985748 B2 20160906; KR 20150036474 A 20150407;
PL 2859192 T3 20161130; US 2015159486 A1 20150611; WO 2014009333 A1 20140116

DOCDB simple family (application)
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