

Title (en)
Device for influencing the flow in a turbomachine

Title (de)
Vorrichtung zur Beeinflussung der Strömung in einer Turbomaschine

Title (fr)
Dispositif destiné à influencer l'écoulement dans une turbomachine

Publication
EP 3006672 A1 20160413 (DE)

Application
EP 14188515 A 20141010

Priority
EP 14188515 A 20141010

Abstract (en)
[origin: WO2016055606A1] The invention relates to a device (10) for influencing the flow in a turbomachine (1), which device comprises a housing (1a) and at least one blade ring (9), which has a plurality of blades (15) and rotates within the housing (1a). There is a gap (11) between the housing (1a) and the blade ring (9), which gap is continuous in the axial direction (x) and has a discontinuous height around the periphery of the blade ring (9). By means of the gap, the gap flow over the blade ring (9) is locally increased and the flow in the boundary layer with respect to the housing (1a) is stabilized.

Abstract (de)
Eine Vorrichtung (10) zur Beeinflussung der Strömung in einer Turbomaschine (1) weist ein Gehäuse (1a) und wenigstens einen, mehrere Schaufeln (15) aufweisenden, innerhalb des Gehäuses (1a) rotierenden Schaufelkranz (9) auf. Zwischen dem Gehäuse (1a) und dem Schaufelkranz (9) befindet sich ein um den Umfang des Schaufelkranzes (9) eine diskontinuierliche Höhe aufweisender Spalt (11).

IPC 8 full level
F01D 5/20 (2006.01); **F01D 11/08** (2006.01)

CPC (source: EP)
F01D 5/20 (2013.01); **F01D 11/08** (2013.01)

Citation (applicant)

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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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3006672 A1 20160413; EP 3204614 A1 20170816; EP 3204614 B1 20220126; WO 2016055606 A1 20160414

DOCDB simple family (application)
EP 14188515 A 20141010; EP 15778648 A 20151009; EP 2015073362 W 20151009