

Title (en)

STATOR COMPONENT WITH SEGMENTED INNER RING FOR A TURBOMACHINE

Title (de)

STATORBAUTEIL MIT SEGMENTIERTEM INNENRING FÜR EINE STRÖMUNGSMASCHINE

Title (fr)

COMPOSANT DE STATOR AVEC BAGUE INTÉRIEURE SEGMENTÉE POUR UNE TURBOMACHINE

Publication

EP 2807344 B1 20221130 (DE)

Application

EP 13702011 A 20130125

Priority

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- EP 2013051508 W 20130125
- EP 13702011 A 20130125

Abstract (en)

[origin: WO2013110792A1] A stator component of a turbomachine is composed substantially of at least one axially extending outer ring (10) which serves as a frame of an inner ring composed of partial segments (20). The partial segments are arranged on one another such that, on the rotor side, they form a coherent circular circumferential surface in relation to the rotational movement of rotor blades (30). The individual partial segment (20) is composed of a material of uniform construction or, at least in a radial direction, of multiple partial bodies constructed from different materials, such as for example ceramic, wherein a partial segment thus formed exhibits predetermined stress and/or expansion behaviour as a function of the load ranges of the turbomachine.

IPC 8 full level

F01D 11/08 (2006.01); **F01D 9/04** (2006.01); **F01D 25/24** (2006.01)

CPC (source: EP RU US)

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Citation (examination)

- EP 2236763 A2 20101006 - GEN ELECTRIC [US]
- US 5374161 A 19941220 - KELCH GEORGE W [US], et al
- WO 2009126191 A2 20091015 - SIEMENS ENERGY INC [US], et al
- US 4679981 A 19870714 - GUIBERT ALAIN J E [FR], et al

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