

Title (en)
High pressure turbine stator of a turbo-engine and his assembling process

Title (de)
Hochdruckturbinenstator einer Strömungsmaschine und deren Zusammenbauverfahren

Title (fr)
Stator de turbine haute-pressure de turbomachine et procédé d'assemblage

Publication
EP 1577501 A1 20050921 (FR)

Application
EP 05290319 A 20050214

Priority
FR 0402825 A 20040318

Abstract (en)
The method involves defining an angular distribution pattern of units of a stator (10) on a predetermined angular sector. The pattern is repeated on entire circumference of the stator so that temperature is distributed symmetrically on entire circumference of a casing (12) of the stator. A set of angular sectors of a case (24) is placed around the casing, to discharge air from the casing. The pattern is defined to avoid radial alignment between inter-spacer zones (14a), defined between two adjacent spacers (14), and inter-sector zones (24a) defined between two adjacent sectors of the case (24). An independent claim is also included for a stator of a high-pressure turbine of a turbomachine.

Abstract (fr)
Procédé d'assemblage d'éléments sectorisés (14, 24) d'un stator annulaire (10) d'une turbine haute-pressure de turbomachine autour d'un axe longitudinal (X-X) de ladite turbine, procédé selon lequel, on définit un motif de répartition angulaire des éléments du stator pour un secteur angulaire prédéterminé (Ψ), le motif de répartition étant défini de façon à éviter un alignement radial entre des zones inter-secteurs (14a, 24a) des éléments du stator (14, 24) définies entre deux secteurs adjacents d'un même élément du stator, et à répéter ledit motif de répartition sur toute la circonférence du stator. <IMAGE>

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IPC 8 full level
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F01D 9/042 (2013.01 - EP US); **F01D 25/246** (2013.01 - EP US); **F01D 25/26** (2013.01 - EP US); **F05D 2260/209** (2013.01 - EP US)

Citation (search report)

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