

Title (en)

Method of manufacturing a ring of stator blades, in particular for an axial compressor

Title (de)

Verfahren zur Herstellung eines Leitgitters für Turbomaschinen, insbesondere für Axialverdichter

Title (fr)

Procédé pour la construction d'une rangée d'aubes statoriques, en particulier pour un compresseur axial

Publication

EP 0602631 B1 19960501 (DE)

Application

EP 93120255 A 19931216

Priority

DE 4242851 A 19921218

Abstract (en)

[origin: EP0602631A1] A method for the manufacture of a stator blade ring for turbines, especially of a stator blade ring of annular construction for axial flow compressors is identified, with stator blades (2) made of fibre-reinforced plastic, which are inserted into openings (7) of a ring (1) distributed over the circumference and are connected at one end of the blade to the ring; at the same time, it is proposed that the stator blades each be prefabricated with an end section (3) running in the profile longitudinal direction, which section after insertion of the stator blades into the openings is heated, curved against the surface of the ring and joined to the ring. For example, a self-bonding connection to the ring can be made or the connection released by the supply of heat, the ring being made of a fibre composite material. <IMAGE>

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CPC (source: EP)

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Cited by

EP2264284A1; EP1746252A3; EP1531234A1; FR2943942A1; CN102387908A; EP1302629A1; EP2075416A1; US8192150B2; US7287957B2; US8607454B2; WO2010116066A1; US8414259B2

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