

Title (en)

High temperature composite material impellor, particularly of small diameter, and its manufacturing method

Title (de)

Rotor aus hochtemperaturbeständige Verbundwerkstoff, insbesondere mit kleinem Diameter und sein Herstellungsverfahren

Title (fr)

Turbine en matériau composite thermostuctural, en particulier à petit diamètre, et procédé pour sa fabrication

Publication

EP 0761977 B1 20010117 (FR)

Application

EP 96401835 A 19960828

Priority

FR 9510205 A 19950830

Abstract (en)

[origin: EP0761977A1] The turbine (10) consists of a number of blades (22) disposed between two flanges (24,30), the blades and the flanges being made out of a composite material of a carbon fibre in a matrix of carbon or ceramic. The first piece (20) is made as a single mono-bloc piece from a composite material forming the first flange (24) and the blades (22). It is first consolidated in a mould and then machined. The second piece forming the second flange (30) is machined from a composite material formed in a mould and consolidated. The two parts (20,30) are then assembled with the blades (22) in contact with the second flange (30) and clamped up centrally.

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IPC 8 full level

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CPC (source: EP US)

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Cited by

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