

Title (en)
TURBINE WHEEL WITH CERAMIC BLADES

Publication
EP 0275726 B1 19901122 (FR)

Application
EP 87402724 A 19871202

Priority
FR 8617634 A 19861217

Abstract (en)
[origin: US4802824A] A turbine rotor has composite ceramic blades each having a bulb-shaped root with planar flanks which define an angle of convergence between them not exceeding ten degrees, and by which the root is held in a dovetail section socket in the periphery of the rotor disc by means of wedge-shaped members also disposed in the socket on opposite sides of the root. Each wedge-shaped member is part of an element including a platform which is disposed adjacent the curved portion of the blade radially outwards of the socket and which is joined to the wedge-shaped member by an integral strut. The platforms of all of the elements extend in a circumferential direction and combine to define a continuous ring forming part of the inner boundary of the gas flow path through the turbine.

IPC 1-7
F01D 5/28; **F01D 5/30**

IPC 8 full level
F01D 5/28 (2006.01); **F01D 5/30** (2006.01); **F01D 11/00** (2006.01)

CPC (source: EP US)
F01D 5/282 (2013.01 - EP US); **F01D 5/284** (2013.01 - EP US); **F01D 5/3007** (2013.01 - EP US); **F01D 5/3084** (2013.01 - EP US); **F01D 11/008** (2013.01 - EP US); **F05D 2300/6033** (2013.01 - EP US)

Cited by
GB2251897A; GB2251897B; FR3085415A1; DE4108085A1; GB2243193A; US5464326A; GB2237846A; US5104290A; GB2237846B; EP2503102A3

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
FR 2608674 A1 19880624; **FR 2608674 B1 19910419**; DE 3766357 D1 19910103; EP 0275726 A1 19880727; EP 0275726 B1 19901122; JP H0629522 B2 19940420; JP S63183203 A 19880728; US 4802824 A 19890207

DOCDB simple family (application)
FR 8617634 A 19861217; DE 3766357 T 19871202; EP 87402724 A 19871202; JP 32003087 A 19871217; US 13172587 A 19871211