

Title (en)  
Turbine wheel with ceramic blades.

Title (de)  
Turbinenrad mit Keramikschaufeln.

Title (fr)  
Roue de turbine à aubes céramique.

Publication  
**EP 0275726 A1 19880727 (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.

Abstract (fr)  
Une roue de turbine comporte des aubes (3) en céramique dont le pied (3b) en forme de bulbe dont les flancs plans latéraux (3c,3d) présentent un angle (a) de convergence ne dépassant pas dix degrés est maintenu dans un alvéole (4) d'un disque (2) au moyen d'éléments en forme de coins (6a,7a), la pale (3a) d'aube étant associée à des éléments distincts formant plates-formes (6b,7b) pour constituer un anneau continu de paroi interne de la veine des gaz.

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)

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**FR 8617634 A 19861217**; DE 3766357 T 19871202; EP 87402724 A 19871202; JP 32003087 A 19871217; US 13172587 A 19871211