

Title (en)

Rotor blade for a turbomachine and turbomachine

Title (de)

Laufschaufel für eine Strömungsmaschine sowie Strömungsmaschine

Title (fr)

Aube de rotor pour une turbomachine et turbomachine

Publication

EP 1707745 A2 20061004 (DE)

Application

EP 06014569 A 20010823

Priority

- EP 01971957 A 20010823
- EP 00119203 A 20000905
- EP 06014569 A 20010823

Abstract (en)

The blade (1), at least in some regions, is made of a cellular material (5) such as a metal foam. A cellular material may be in the working region (7) of the blade, or in the fixing region (9) of the blade. The blade can be used in a gas turbine, as steam turbine or a compressor. The cellular material may form an external surface with a closed structure opposite the cells.

IPC 8 full level

F01D 5/28 (2006.01); **F01D 5/14** (2006.01); **F04D 29/38** (2006.01)

CPC (source: EP US)

F01D 5/147 (2013.01 - EP US); **F01D 5/28** (2013.01 - EP US); **B22F 2998/00** (2013.01 - EP US); **F05C 2201/0463** (2013.01 - EP US); **F05C 2201/0466** (2013.01 - EP US); **F05D 2260/203** (2013.01 - EP US); **F05D 2300/612** (2013.01 - EP US)

Cited by

DE102008058142A1; DE102008058141A1; WO2008104154A1; US9200567B2; US10662806B2

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

EP 1186748 A1 20020313; CN 1325761 C 20070711; CN 1449470 A 20031015; DE 50111221 D1 20061123; EP 1322838 A1 20030702; EP 1322838 B1 20061011; EP 1707745 A2 20061004; EP 1707745 A3 20061018; JP 2004508478 A 20040318; JP 4499351 B2 20100707; US 2003185685 A1 20031002; US 6827556 B2 20041207; WO 0220948 A1 20020314

DOCDB simple family (application)

EP 00119203 A 20000905; CN 01814953 A 20010823; DE 50111221 T 20010823; EP 0109759 W 20010823; EP 01971957 A 20010823; EP 06014569 A 20010823; JP 2002525339 A 20010823; US 37998703 A 20030305