

Title (en)

Composite fan blade for a gas turbine engine

Title (de)

Fanschaufel aus Verbundwerkstoff für ein Gasturbinenriebwerk

Title (fr)

Aube de soufflante en matériau composite pour un moteur à turbine à gaz

Publication

**EP 1939402 A3 20100505 (DE)**

Application

**EP 07024380 A 20071217**

Priority

DE 102006061916 A 20061221

Abstract (en)

[origin: EP1939402A2] The rotor blade (1) comprises a support structure, which is made of fiber composite and has a metallic cladding structure (4) made of metal sheet. The rotor blade has a turbine blade (3), a blade root (11) and annulus filler (10), which is in a transition area between the turbine blade and the root. The cladding structure surrounds the turbine blade and below the annulus filler, it connects to the outer surface of the blade root flush with an edge or with an edge provided with recesses.

IPC 8 full level

**F01D 5/28** (2006.01)

CPC (source: EP US)

**F01D 5/282** (2013.01 - EP US); **F05D 2220/36** (2013.01 - EP US); **F05D 2240/30** (2013.01 - EP US)

Citation (search report)

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- [I] US 3762835 A 19731002 - FARMER E, et al
- [Y] EP 1596036 A1 20051116 - GEN ELECTRIC [US]
- [A] US 5672417 A 19970930 - CHAMPENOIS CHRISTOPHE JEAN ROG [FR], et al

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EP2189627A1; EP2693061A3; CN104603398A; US9126361B2; US9828860B2; US9822652B2; WO2014007685A1

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**EP 1939402 A2 20080702**; **EP 1939402 A3 20100505**; DE 102006061916 A1 20080626; US 2008152506 A1 20080626; US 8251664 B2 20120828

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