

Title (en)

Turbine airfoil platform extension for low buttress stress

Title (de)

Verlängerung der Plattform einer Turbinenschaufel mit einer niedrigen Spannung in seinem Stützpfiler

Title (fr)

Extension de plateforme d'aube de turbine ayant une faible contrainte au niveau de son contrefort

Publication

**EP 1749970 B1 20150513 (EN)**

Application

**EP 06252876 A 20060602**

Priority

US 19716205 A 20050803

Abstract (en)

[origin: EP1749970A2] A blade (100) is provided for use in a gas turbine engine. The blade (100) has a platform (102), an airfoil portion (104) extending radially from a first side (106) of the platform (102), and an attachment portion (108) extending from a second or underside side (110) of the platform (102). The attachment portion (108) includes a buttress (116) which abuts the second side (110) of the platform (102). The blade is provided with additional material (140) on the second side (110) of the platform (102) for redistributing load away from the buttress (116).

IPC 8 full level

**F01D 5/14** (2006.01); **F01D 5/30** (2006.01)

CPC (source: EP US)

**F01D 5/147** (2013.01 - EP US); **F01D 5/3007** (2013.01 - EP US); **F05D 2240/80** (2013.01 - EP US); **F05D 2250/70** (2013.01 - EP US)

Cited by

EP2372102A3; US9976433B2; EP2396515B1

Designated contracting state (EPC)

DE GB

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**EP 1749970 A2 20070207**; **EP 1749970 A3 20100526**; **EP 1749970 B1 20150513**; CN 1908379 A 20070207; JP 2007040295 A 20070215; SG 130114 A1 20070320; TW 200710319 A 20070316; US 2007031260 A1 20070208

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**EP 06252876 A 20060602**; CN 200610088713 A 20060602; JP 2006147671 A 20060529; SG 2006052211 A 20060802; TW 95114575 A 20060424; US 19716205 A 20050803