

Title (en)  
Turbine blade

Title (de)  
Turbinenschaufel

Title (fr)  
Aube de turbine

Publication  
**EP 1862640 A1 20071205 (DE)**

Application  
**EP 06011253 A 20060531**

Priority  
EP 06011253 A 20060531

Abstract (en)  
The blade (10) has a fastening and platform section at which a blade leaf with blade units (28, 30) is attached with a blade leaf point (36). The blade units are connected as a suction side leaf wall (18) and as a pressure side leaf wall (20). The blade units are secured in the area of the blade leaf point against formation of a gap between the blade units by a form closure. The form closure is formed by a hooking unit (39), which is hooked between the blade units. The hooking unit has a bracket (40) with two oppositely lying bracket ends (54, 56), which engage hooks (46, 48).

Abstract (de)  
Die Erfindung betrifft eine Turbinenschaufel (10) mit einem aerodynamisch profilierten Schaufelblatt (16), welches aus zwei zusammengefügt Schalenelementen (28, 30) hergestellt ist. Die die saugseitige und die druckseitige Schaufelblattwand (18, 20) bildenden Schalenelemente (28, 30) sind mittels eines Hochtemperatur-Hochdruck-Bonding-Prozesses zusammengefügt worden, die unter Umständen an der Schaufelspitze (36) auseinander klaffen können. Um dies zu verhindern, ist im Bereich der Schaufelblattspitze (36) eine Klammer (40) vorgesehen, welche die beiden Schaufelwände (18, 20) formschlüssig miteinander verhakt.

IPC 8 full level  
**F01D 5/14** (2006.01); **F01D 5/20** (2006.01)

CPC (source: EP US)  
**F01D 5/147** (2013.01 - EP US); **F01D 5/20** (2013.01 - EP US); **F05D 2230/232** (2013.01 - EP US)

Citation (applicant)  
• EP 1283325 A1 20030212 - SIEMENS AG [DE]  
• EP 0990771 A1 20000405 - GEN ELECTRIC [US]  
• US 3899267 A 19750812 - DENNIS RONALD E, et al  
• US 4411597 A 19831025 - KOFFEL WILLIAM K [US], et al  
• GB 2106997 A 19830420 - ROLLS ROYCE [GB]

Citation (search report)  
• [Y] EP 0990771 A1 20000405 - GEN ELECTRIC [US]  
• [Y] US 4411597 A 19831025 - KOFFEL WILLIAM K [US], et al  
• [DY] EP 1283325 A1 20030212 - SIEMENS AG [DE]  
• [Y] GB 2106997 A 19830420 - ROLLS ROYCE [GB]  
• [A] DE 1087745 B 19600825 - SCHILDE MASCHB AG  
• [A] US 3899267 A 19750812 - DENNIS RONALD E, et al  
• [A] US 6056507 A 20000502 - WHEAT GARY E [US], et al

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Designated extension state (EPC)  
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**EP 1862640 A1 20071205; EP 1862640 B1 20100303**; AT E459783 T1 20100315; CN 101082286 A 20071205; CN 101082286 B 20100623; DE 502006006333 D1 20100415; JP 2008031985 A 20080214; JP 4532523 B2 20100825; RU 2007120199 A 20081210; RU 2372493 C2 20091110; US 2010014980 A1 20100121; US 7832988 B2 20101116

DOCDB simple family (application)  
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