

Title (en)

Coupling pin for turbine blades

Title (de)

Koppelbolzen für Turbinenschaufeln

Title (fr)

Boulons de couplage pour aubes de turbines

Publication

**EP 2436878 A2 20120404 (DE)**

Application

**EP 11180377 A 20110907**

Priority

DE 102010041702 A 20100930

Abstract (en)

The bolt (1) has bi-conical profile or conical ends (3) that are automatically centered into a receiving bore (4) of respective turbine blades (2) in order to couple the turbine blades adjacent to each other. The bolt is partially manufactured from composite material such as steel and/or titanium. The bolt is rotationally symmetrically formed as a hollow profile. The receiving bore is formed as through hole or a blind bore by forming the turbine blades with thickened portion (5).

Abstract (de)

Die Erfindung betrifft einen Koppelbolzen (1) zum Koppeln von zwei oder mehreren Turbinenschaufeln (2), wobei die Koppelbolzen (1) zumindest teilweise aus Faserverbundwerkstoff bestehen. Durch die zumindest teilweise Ausbildung aus Faserverbundwerkstoff kann das Gewicht der Koppelbolzen (1) gegenüber im Stand der Technik deutlich herabgesetzt werden.

IPC 8 full level

**F01D 5/00** (2006.01); **F01D 5/24** (2006.01)

CPC (source: EP)

**F01D 5/22** (2013.01); **F01D 5/24** (2013.01); **F05D 2230/64** (2013.01); **F05D 2250/232** (2013.01); **F05D 2260/30** (2013.01); **F05D 2300/603** (2013.01)

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