

Title (en)

METHOD FOR REPAIRING AN INTEGRAL ROTOR AND INTEGRAL ROTOR

Title (de)

VERFAHREN ZUR REPARATUR EINES INTEGRALEN ROTORS UND INTEGRALER ROTOR

Title (fr)

PROCÉDÉ POUR RÉPARER UN ROTOR CONSTITUÉ D'UNE SEULE PIÈCE ET ROTOR CORRESPONDANT

Publication

**EP 2344299 A1 20110720 (DE)**

Application

**EP 10776283 A 20100924**

Priority

- DE 2010001126 W 20100924
- DE 102009043184 A 20090926

Abstract (en)

[origin: WO2011035772A1] The invention relates to a method for repairing an integral rotor (10), in particular a rotor (10) of a gas turbine, having a main rotor body (12) and a plurality of blades (14), the method comprising the following method steps: separating a blade (16) to be replaced from the rotor (10), wherein a blade stub (20) protruding from the main rotor body (12) and having a first welding contact surface (22) is formed; providing a replacement blade (24) having a second welding contact surface (26); attaching a collar (28) to the blade stub (20) and/or to the replacement blade (24) by a thermal spraying method, wherein the material of the collar (28) has a melting point that substantially corresponds to that of the blade stub (20) or of the replacement blade (24); welding the replacement blade (24) onto the blade stub (20); and at least partially removing the collar (28).

IPC 8 full level

**B23P 6/00** (2006.01); **F01D 5/00** (2006.01)

CPC (source: EP)

**B23P 6/005** (2013.01); **F01D 5/005** (2013.01); **F05B 2230/239** (2013.01); **F05D 2230/232** (2013.01); **F05D 2230/31** (2013.01); **F05D 2230/53** (2013.01); **F05D 2230/80** (2013.01)

Citation (search report)

See references of WO 2011035772A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

**WO 2011035772 A1 20110331**; DE 102009043184 A1 20110407; EP 2344299 A1 20110720

DOCDB simple family (application)

**DE 2010001126 W 20100924**; DE 102009043184 A 20090926; EP 10776283 A 20100924