

Title (en)

Turbine and working method for dismantling the blades of a turbine

Title (de)

Turbine und Arbeitsverfahren zum Ausbau der Leitschaufeln einer Turbine

Title (fr)

Turbine et procédé de démontage des aubes fixes d'une turbine

Publication

EP 1573172 A1 20050914 (DE)

Application

EP 03789132 A 20031204

Priority

- EP 03789132 A 20031204
- EP 0313711 W 20031204
- EP 02028511 A 20021219

Abstract (en)

[origin: WO2004057158A1] The invention relates to a turbine (1) and a method for dismantling a blade (12) of a turbine. Said turbine (1) comprises a rotor (3) that extends in an axial direction and an accessible combustion chamber (6), which communicates with an annular hot-gas conduit 18, in which a plurality of blades (12) that form a blade row (13) is arranged. Each blade (12) has a blade root (21) that is fixed to the internal housing and a blade head (22) that lies opposite said root (21) and faces the rotor (3), said head being fixed to a fixing ring (24) of the turbine (1) that encircles the rotor (3). The aim of the invention is to reduce the down time of the turbine (1) during repair, inspection and/or maintenance work. To achieve this, the blade root (21) and/or the blade head (22) can be fixed by means of a manually detachable clamping device (25, 35).

IPC 1-7

F01D 9/04

IPC 8 full level

F01D 9/02 (2006.01); **F01D 9/04** (2006.01)

CPC (source: EP US)

F01D 9/023 (2013.01 - EP US); **F01D 9/042** (2013.01 - EP US)

Citation (search report)

See references of WO 2004057158A1

Cited by

DE102017204953A1

Designated contracting state (EPC)

CH DE ES GB IT LI

DOCDB simple family (publication)

WO 2004057158 A1 20040708; CN 100412322 C 20080820; CN 1729352 A 20060201; DE 50313299 D1 20110113; EP 1573172 A1 20050914; EP 1573172 B1 20101201; ES 2356629 T3 20110411; US 2006251518 A1 20061109; US 7290983 B2 20071106

DOCDB simple family (application)

EP 0313711 W 20031204; CN 200380106953 A 20031204; DE 50313299 T 20031204; EP 03789132 A 20031204; ES 03789132 T 20031204; US 53993006 A 20060502