

Title (en)

TURBINE ROTOR ASSEMBLY WITH LAP JOINTS BETWEEN THE ROTOR DISCS FOR TORQUE TRANSMISSION

Title (de)

TURBINENROTORANORDNUNG MIT ÜBERLAPPUNGSVERBINDUNG ZWISCHEN DEN ROTORSCHLEIBEN ZUR DREHMOMENTÜBERTRAGUNG

Title (fr)

ENSEMBLE ROTOR DE TURBINE AYANT DES JOINTS À RECouvreMENT ENTRE LES DISQUES DE ROTOR POUR TRANSMISSION DE COUPLE

Publication

EP 3447244 A1 20190227 (EN)

Application

EP 17187531 A 20170823

Priority

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Abstract (en)

A rotor assembly for a turbine section of a gas turbine is presented. The rotor assembly includes a first and a second rotor discs coaxially aligned and axially adjacent to each other, and configured to rotate about a rotational axis of the rotor disc assembly. The first and the second rotor discs include a first and a second annular projection, respectively, with respect to the rotational axis. The annular projections extend axially towards each other, and at least partially overlap with each other forming a lap joint. In the lap joint so formed the annular projections are adhered to each other by using an adhesive material sandwiched thereinbetween. One or more fasteners or rivets rivet the annular projections to each other in the lap joint. The lap joint of the present technique functions to keep the rotor discs packed in close proximity and to transmit torque between the rotor discs.

IPC 8 full level

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CPC (source: EP)

F01D 5/026 (2013.01); **F01D 5/06** (2013.01); **F01D 5/066** (2013.01)

Citation (search report)

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