

Title (en)

TURBINE ROTOR FOR AN EXHAUST-GAS TURBINE AND METHOD FOR PRODUCING THE TURBINE ROTOR

Title (de)

TURBINENLÄUFER FÜR EINE ABGASTURBINE SOWIE EIN VERFAHREN ZUR HERSTELLUNG DES TURBINENLÄUFERS

Title (fr)

ROTOR DE TURBINE D'UNE TURBINE À GAZ D'ÉCHAPPEMENT ET PROCÉDÉ DE FABRICATION DUDIT ROTOR DE TURBINE

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Application

EP 13711662 A 20130320

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Abstract (en)

[origin: WO2013143941A1] The invention relates to a turbine rotor (1) for an exhaust-gas turbine and to a method for producing such a turbine rotor (1), wherein the turbine rotor (1) has a turbine impeller (2) made of a high-temperature-resistant metal alloy and a rotor shaft (4) made of steel, and the impeller hub (3) and the rotor shaft end are connected together in a cohesive manner (6) by means of a soldered connection. Between the end faces of the impeller hub (3) and of the rotor shaft end, a soldering gap filled with a solder alloy is arranged concentrically with the rotation axis of the turbine rotor, wherein the width of the soldering gap is previously determined by circularly peripheral removal of material on the end face of the impeller hub or the end face of the rotor shaft end, and the soldered connection is produced by means of electron beam soldering methods.

IPC 8 full level

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Citation (search report)

See references of WO 2013143941A1

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