

Title (en)

METHOD AND DEVICE FOR SURFACE BLASTING GAS TURBINE BLADES IN THE AREA OF THE ROOTS THEREOF

Title (de)

VERFAHREN UND VORRICHTUNG ZUM OBERFLÄCHENSTRAHLEN VON GASTURBINENSCHAUFELN IM BEREICH IHRER SCHAUFELFÜSSE

Title (fr)

PROCEDE ET DISPOSITIF POUR DECAPAGE DE SURFACES D'AUBES DE TURBINES A GAZ AU NIVEAU DE L'EMPLANTURE

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Application

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Abstract (en)

[origin: WO2005123338A1] The invention relates to a method and a device for surface blasting, particularly ultrasonically shot peening, gas turbine blades in the area of the roots thereof. Said device comprises at least one vibrator, particularly at least one ultrasonic sonotrode (12), which is provided with an oscillating surface (13). The or each vibrator is oriented in such a way that the oscillating surface (13) thereof extends substantially in a horizontal direction. A processing chamber (14) for accommodating the or each blade root (15) that is to be processed adjoins the or each oscillating surface (13). According to the invention, said processing chamber (14) is configured such that the or each gas turbine blade (11) can be oriented for surface blasting in such a way that at least one profiled support area of the or each blade root (15), which is to be processed, at least temporarily runs essentially parallel to the oscillating surface (13) of the or each vibrator, especially the or each ultrasonic sonotrode, during the blasting process.

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