Title (en)
METHOD AND APPARATUS FOR ESTABLISHING THE STATE OF THE ROTOR OF A TURBOMACHINE

Title (de)
VERFAHREN UND VORRICHTUNG ZUM ERKENNEN DES ZUSTANDS DES ROTORS EINER STRÖMUNGSMASCHINE

Title (fr)
METHODE ET APPAREIL PERMETTANT D'ETABLIR L'ETAT D'UN ROTOR DE TURBOMACHINE

Publication
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Application
EP 05715936 A 20050310

Priority
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Abstract (en)

[origin: EP1577492A1] The rotor of a turbo machine in the exposed state has a control section (29) visible from the outside, and a monitoring section which is not visible from the outside. A weakened point in the fashion of a design break point is provided in the control section. When the machine is running, possible emerging damage of the rotor is recognized through a non-critical defect (39) emerging in the region of the weakened point (31) and propagating from this point. The weakened point is formed by a material weakening in the form of a notch (32). Independent claims are also included for the following: (A) a turbo machine equipped with the aforesaid rotor; and (B) a method for the recognizing of the state of the exposed rotor of a turbo machine.

IPC 8 full level
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CPC (source: EP US)
F01D 21/00 (2013.01 - EP US); **F01D 21/045** (2013.01 - EP US); **F01D 21/06** (2013.01 - EP US); F05D 2260/80 (2013.01 - EP US)

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