

Title (en)

DEVICE FOR DETECTING A FRACTURED SHAFT OF A GAS TURBINE AND GAS TURBINE

Title (de)

EINRICHTUNG ZUR DETEKTION EINES WELLENBRUCHS AN EINER GASTURBINE SOWIE GASTURBINE

Title (fr)

DISPOSITIF POUR DETECTER UNE RUPTURE D'ARBRE SUR UNE TURBINE A GAZ ET TURBINE A GAZ

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2006005319A2] The invention relates to a device for detecting a fractured shaft in a rotor of a first turbine (10), in particular a medium-pressure turbine of a gas turbine, in particular a jet engine, a second turbine (11), in particular a low-pressure turbine being located downstream of the first turbine (10). Said device comprises an actuating element (16), which is positioned between the rotor of the first turbine (10) and a stator of the second turbine (11) and lies on the inner radius in relation to a flow channel and a sensor element (21) that is configured in the stator of the second turbine (11), in order to convert a shaft fracture that has been detected by the radially innerlying actuating element (16) into an electric signal and to transfer said electric signal to a switching element, which is positioned on a housing and lies on the outer radius in relation to the flow channel.

IPC 8 full level

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