Title (en)

CLEARANCE CONTROL SYSTEM, TURBOMACHINE AND METHOD FOR ADJUSTING A RUNNING CLEARANCE BETWEEN A ROTOR AND A CASING OF A TURBOMACHINE

Title (de)

SPALTKONTROLLSYSTEM, STRÖMUNGSMASCHINE UND VERFAHREN ZUM EINSTELLEN EINES LAUFSPALTS ZWISCHEN EINEM ROTOR UND EINER UMMANTELUNG EINER STRÖMUNGSMASCHINE

Title (fr)

SYSTÈME DE CONTRÔLE DE JEU, TURBOMACHINE ET PROCÉDÉ DE RÉGLAGE D'UN JEU FONCTIONNEL ENTRE UN ROTOR ET UNE ENVELOPPE D'UNE TURBOMACHINE

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Application

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Abstract (en)

[origin: WO2010136018A2] The invention relates to a clearance control system for adjusting a running clearance (L) between a rotor (12) having rotor blades (10) of a turbomachine (14), especially a gas turbine, and a casing (18) which surrounds at least sections thereof and comprises at least two segments (16a-d). The clearance control system comprises at least one adjusting gear (20) which can be coupled to at least one segment (16a-d) of the casing (18) and which is used to radially move the at least one segment (16a-d) relative to a rotational axis (D) of the rotor (12) to adjust the running clearance (L), every segment (16a-d) of the casing (18) being coupled to at least three adjusting devices (20) of the clearance control system. The invention further relates to a turbomachine (14), especially a gas turbine, and to a method for adjusting a running clearance (L).

IPC 8 full level

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