

Title (en)
HEATING SYSTEMS FOR EXTERNAL SURFACE OF ROTOR IN-SITU IN TURBOMACHINE

Title (de)
HEIZSYSTEME FÜR DIE AUSSENFLÄCHE EINES ROTORS IN-SITU IN EINER TURBOMASCHINE

Title (fr)
SYSTÈMES DE CHAUFFAGE DE SURFACE EXTERNE DE ROTOR DE TURBOMACHINE IN-SITU

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Application
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Abstract (en)
Heating systems (200) for a rotor (114, 210) in-situ in a turbomachine (90, 190) are provided. In contrast to conventional systems that merely heat from an external turbine (212) casing, embodiments of the disclosure heat the rotor (114, 210). In one embodiment, a heating system (200) includes a heating element (430) to heat a portion of an exterior surface (240) of the rotor (114, 210). In another embodiment, the heating system (200) may include a heating elements (330, 430, 530) at least partially positioned within the rotor (114, 210), and the rotor (114, 210) including the heating system (200). Each embodiment may include a controller (340) to control operation of the heating elements (330, 430, 530).

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