

Title (en)
HEATING SYSTEMS FOR ROTOR IN-SITU IN TURBOMACHINES

Title (de)
HEIZSYSTEME FÜR ROTOR IN-SITU IN TURBOMASCHINEN

Title (fr)
SYSTÈMES DE CHAUFFAGE DE ROTOR IN SITU DANS DES TURBOMACHINES

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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 (230, 330, 530, 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 element (s) (230, 330, 530, 430) 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 element(s) (230, 330, 530, 430).

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Citation (search report)
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• [X] US 2013287580 A1 20131031 - WITNEY ANDREW BATTON [US], et al
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