

Title (en)
HIGHLY CORROSION-RESISTANT MOVABLE BLADE ASSEMBLY FOR A STEAM TURBINE, IN PARTICULAR A GEOTHERMAL IMPULSE TURBINE

Title (de)
HOCH KORROSIONSBESTÄNDIGE BEWEGLICHE LAUFSCHAUFELANORDNUNG FÜR EINE DAMPFTURBINE, INSBESONDERE EINE GEOTHERMALIMPULSTURBINE

Title (fr)
ENSEMBLE DE PALES DEPLAÇABLES HAUTEMENT RÉSISTANT À LA CORROSION POUR UNE TURBINE À VAPEUR, EN PARTICULIER UNE TURBINE À IMPULSION GÉOTHERMIQUE

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Application
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Priority
IT 2006000565 W 20060725

Abstract (en)
[origin: WO2008012842A1] A highly corrosion-resistant movable blade assembly (20) for a steam turbine, in particular a geothermal impulse turbine, has an array (14) of rotor blades (15) carried by a shaft (7) rotating about an axis (A)/ each blade (15) extends between one end (22) attached to the shaft (7), and a free end (24) terminating with a top portion (25) with no mechanical connection to the top portions (25) of the other blades (15); the blades (15) are made of a nickel-based metal alloy containing chromium, iron, niobium, and molybdenum, e.g. a metal alloy in the INCONEL® group or a similar material. For high resistance against corrosion and erosion. In particular, the blades are unshrouded to avoid accumulation of deposits and subdeposit corrosion.

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