

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

Publication
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Application
EP 06796230 A 20060725

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.

IPC 8 full level
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CPC (source: EP US)
C22C 19/05 (2013.01 - EP US); **F01D 5/141** (2013.01 - EP US); **F01D 5/28** (2013.01 - EP US); **F05C 2201/0466** (2013.01 - EP US); **F05D 2220/31** (2013.01 - EP US); **F05D 2300/131** (2013.01 - EP US)

Citation (search report)
See references of WO 2008012842A1

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