

Title (en)

METHOD OF MANUFACTURING ROTOR TO BE USED FOR STEAM TURBINE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES ROTORS ZUR VERWENDUNG IN EINER DAMPFTURBINE

Title (fr)

PROCÉDÉ DE FABRICATION D'UN ROTOR DESTINÉ À ÊTRE UTILISÉ DANS UNE TURBINE À VAPEUR

Publication

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Application

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Abstract (en)

According to one embodiment, a method of manufacturing a steam turbine rotor (10) has a step of reducing the residual stress (2-2) of the target regions (20) of the rotor if compared with the other region.

IPC 8 full level

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Citation (search report)

- [A] JP S6369919 A 19880330 - TOSHIBA CORP
- [A] US 6344098 B1 20020205 - MANNING MICHAEL PATRICK [US], et al
- [A] JP S5644722 A 19810424 - HITACHI LTD
- [A] JP S5538968 A 19800318 - TOKYO SHIBAURA ELECTRIC CO
- [A] EP 0719869 A1 19960703 - JAPAN STEEL WORKS LTD [JP], et al
- [A] EP 2514848 A1 20121024 - JAPAN STEEL WORKS LTD [JP], et al
- [A] EP 2520675 A2 20121107 - GEN ELECTRIC [US]
- [A] JP H01312028 A 19891215 - MITSUBISHI HEAVY IND LTD
- [A] KOHEI M; MASAHIRO S: "Recent Technology for Improving Corrosion-Resistance and Performance of Geothermal Turbines", FUJI ELECTRIC REVIEW., vol. 59, no. 2, 20 June 2013 (2013-06-20), XX, pages 96 - 100, XP055148306, ISSN: 0429-8284
- [A] TEVFIK KAYA ET AL: "Corrosion and Material Selection for Geothermal Systems", PROCEEDINGS WORLD GEOTHERMAL CONGRESS 2005 ANTALYA, 29 April 2005 (2005-04-29), pages 24 - 29, XP055148659, Retrieved from the Internet <URL:<http://www.geothermal-energy.org/pdf/IGAstandard/WGC/2005/2039.pdf>> [retrieved on 20141023]

Cited by

CN108165714A; CN108220809A; CN113088813A

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