Title (en)
Method for operating a multi-stage steam turbine

Title (de)
Verfahren zum Betreiben einer mehrstufigen Dampfturbine

Title (fr)
Procédé destiné au fonctionnement d'une turbine à vapeur multiple

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EP 1998014 A3 20081231 (DE)

Application
EP 07003922 A 20070226

Priority
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Abstract (en)
[origin: WO2008104465A2] The invention relates to a method for operating a multi-step steam turbine (4, 5, 6) that is suitable for high temperatures. The rotor (27) is embodied as a welded construction having a first component (33) and a second component (34) and a coolant is supplied to the steam turbine (4, 5, 6) after an intermediate stage (14) when said steam turbine (4, 5, 6) is in the light-load or no-load phase. As a result, the thermal loads in the outflow area (32) of the steam turbine (4, 5, 6) are reduced.

IPC 8 full level
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Citation (search report)
- [XD] DD 148367 A1 19810520 - SPEICHER KARL
- [X] EP 1674669 A1 20060628 - SIEMENS AG [DE]
- [X] WO 9812421 A1 19980326 - WESTINGHOUSE ELECTRIC CORP [US]
- [X] EP 1473442 A2 20041103 - TOSHIBA KK [JP]
- [X] DE 19823251 C1 19990708 - SIEMENS AG [DE]
- [X] US 4498301 A 19850212 - TSUBOUCHI KUNIYOSHI [JP]

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