

Title (en)
NOZZLE CASING COMPONENT FOR A STEAM TURBINE

Title (de)
DÜSENGEHÄUSEKOMPONENTE FÜR EINE DAMPFTURBINE

Title (fr)
COMPOSANT DE CARTER DE TUYÈRE POUR TURBINE À VAPEUR

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Application
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Abstract (en)
The present invention relates to a nozzle casing component (100) for a steam turbine (600), comprising a first section (110) extending along a circumferential direction (190) of the steam turbine (600), and a second section (120) extending along the circumferential direction (190) of the steam turbine (600). The first section (110) comprises a flow channel (111) and an outlet (112) configured such that a first inlet steam flow (653) flowing through the flow channel (111) is injectable through the outlet (112) into a flow path (140) of the steam turbine (600) upstream of a control wheel (791). The second section (120) comprises a flow deflecting surface (121) and a radius defined between the flow deflecting surface (121) and a rotation axis (180) of the steam turbine (600). The nozzle casing component (100) is arrangeable in a turbine casing (611) comprising a radially inner surface (623) and a further flow channel (629) is formable in-between the flow deflecting surface (121) and the radially inner surface (623). Furthermore, a second inlet steam flow (656) of the steam turbine (600) is guidable along the flow deflecting surface (121) such that the second inlet steam flow (656) enters the flow path (140) of the steam turbine (600) downstream of the control wheel (791). A length of the radius varies along the second section (120) in the circumferential direction (180) such that a volume of the further flow channel (629) varies depending on the variation of the length of the radius.

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Citation (search report)
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