

Title (en)

STEAM TURBINE AND METHOD OF OPERATING THE SAME

Title (de)

DAMPFTURBINE UND VERFAHREN ZUM BETREIBEN DERSELBEN

Title (fr)

TURBINE À VAPEUR ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication

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Application

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Abstract (en)

[origin: WO2019007557A1] The invention relates to a steam turbine (1a; b), comprising: a steam turbine outer housing (20); a high-pressure inner housing (30) having a first process steam inlet section (31) and a first process steam outlet section (32) for conducting process steam through the high-pressure inner housing (30) from the first process steam inlet section (31) to the first process steam outlet section (32) in a first process steam expansion direction (33); a low-pressure inner housing (40) having a second process steam inlet section (41) and a second process steam outlet section (42) for conducting process steam through the low-pressure inner housing (40) from the second process steam inlet section (41) to the second process steam outlet section (42) in a second process steam expansion direction (43); and an intermediate superheater (50), which is arranged downstream of the high-pressure inner housing (30) and upstream of the low-pressure inner housing (40), wherein the high-pressure inner housing (30) and the low-pressure inner housing (40) are arranged within the steam turbine outer housing (20) and the high-pressure inner housing (30) and the low-pressure inner housing (40) are arranged in such a way that the first steam inlet section (31) of the high-pressure inner housing (30) faces the second steam inlet section (41) of the low-pressure inner housing (40). The invention further relates to a method for operating a steam turbine (1a; 1b) according to the invention.

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