

Title (en)  
TURBINE AND METHOD FOR DISCHARGING LEAKAGE FLUID

Title (de)  
TURBINE SOWIE VERFAHREN ZUR ABFÜHRUNG VON LECKFLUID

Title (fr)  
TURBINE ET PROCEDE POUR EVACUER DU FLUIDE DE FUITE

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Application  
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Abstract (en)  
[origin: WO0116467A1] The invention relates to a turbine (1) equipped with a rotor (2) which comprises a blade area (3) for accommodating moving blades (4) and comprises a thrust balance piston (5). The thrust balance piston (5) has a hot side (6) that faces the blade area (3) and has a cold side (7) that faces away from said blade area (3). Both a feed (14), which is provided for sealing fluid (15) and which is assigned to the cold side (7), as well as a leakage fluid feed (12), which is fluidically connected to the blade area (3), open into a mixing area (13) on one side, and a discharge line (16) branches off from the mixing area on the other side. The invention also relates to a method for discharging hot leakage fluid (17). The leakage fluid (17) enters a turbine (1) through a radial gap (12), which is located between a thrust balance piston (5) of a rotor (2) and a stationary turbine part (11), is mixed with a cooler sealing fluid (15) and is discharged.

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