

Title (en)  
RADIAL FLOW STEAM TURBINE

Title (de)  
RADIALFLUSS-DAMPFTURBINE

Title (fr)  
TURBINE À VAPEUR À ÉCOULEMENT RADIAL

Publication  
**EP 2578800 A1 20130410 (EN)**

Application  
**EP 11786806 A 20110527**

Priority  
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• JP 2011062745 W 20110527

Abstract (en)  
Provided is a high-efficiency, realistic, radial flow steam turbine such that the steam supply method is simplified, and that a sufficient amount of steam is supplied to the interior of a turbine unit which is additionally provided in the axial direction. The radial flow steam turbine is equipped with a rotation shaft; a rotor disk connected to the rotation shaft; rotor blades are mounted on the rotor disk; stator disks which face the rotor disk are supported by a casing by being fixed thereto; stator blades are mounted on the stator disk; and an operating steam circulation path is formed wherein the rotor blades on the rotor disk and the stator blades on the stator disk are alternately disposed in the radial direction, and wherein the flow direction of operating steam is in a radial direction which is outward with respect to the rotation shaft. Also, the radial flow steam turbine is configured in such a way that the steam supplied by a steam supply source is circulated as operating steam in the operating steam path, and that thereby the rotor disk and the rotation shaft are rotated. In this radial flow steam turbine, openings are provided in those areas of the rotor disk in the vicinity of the rotation shaft, with the result that an axial steam supply passage is secured.

IPC 8 full level  
**F01D 1/06** (2006.01)

CPC (source: EP US)  
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