Title (en)

TURBINE ROTOR BLADE

Title (de)

TURBINENLAUFSCHAUFEL

Title (fr)

AUBE MOBILE DE TURBINE

Publication

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Application

EP 15787931 A 20151022

Priority

- EP 14190587 A 20141028
- EP 2015074435 W 20151022

Abstract (en)

[origin: WO2016066511A1] The invention relates to a turbine rotor blade (10) for a thermal continuous flow machine, wherein a transition region (16), as well as an aerodynamically shaped turbine blade connected to same, follows a blade foot (14) for securing the turbine rotor blade (10) to a rotor of the turbine along a notional blade longitudinal axis (12) of the turbine rotor blade from bottom to top, wherein the blade foot (14) has two flat end surfaces (26, 28) facing one another and two contoured side surfaces (30, 32) facing one another and joining the two end surfaces to one another, in which side surface (30, 32) at least one respective carrying edge (34) is formed by creating a dovetail- or fir tree-like end surface contour, and wherein the carrying edges (34) become free edges or extend into to the transition region via concave rounded portions (36). According to the invention, in order to provide a turbine rotor blade that extends the working life of the turbine rotor blade carrier when used in a blade carrier, a channel (38) bordering one of the two end sides (26, 28) is arranged in at least one concave rounded portion (36), the extension of which channel along the side surface (30 or 32) is less than that of the carrying edge (34).

IPC 8 full level

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