

Title (en)  
PRESSURE BLADED WHEEL

Title (de)  
DRUCKLAUFRAD

Title (fr)  
ROUE À AUBES À PRESSION

Publication  
**EP 2478213 A2 20120725 (FR)**

Application  
**EP 10727006 A 20100511**

Priority  
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• FR 2010000372 W 20100511

Abstract (en)  
[origin: WO2010130901A2] The invention relates to a turbine blade wheel for small and average water depths, characterised by the association of: a water admission in the wheel obtained by means of multi-directional flaps (7) that incline and open in such a way as to enable the space between the blades to be 100 % filled; blades comprising a blade closing element (9) and a space (V) for the air to escape, such a closing element enabling the pressurisation (P) of the wheel, eliminating the air pockets, without any overflow inside the wheel; and a lower fixed corridor for ensuring tightness beneath the wheel with a minimum amount of play in order to maintain the pressure (P) constant during the rotation of the wheel. Said association leads to a novel concept for a so-called pressure wheel that operates only as a result of the pressure exerted on the blades with a 100 % filling of the space between the blades.

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