

Title (en)
WIND TURBINE HAVING AN INNER BAFFLE

Title (de)
WINDTURBINE MIT INNENPRALLBLECH

Title (fr)
ÉOLIENNE À DÉFLECTEUR INTERNE

Publication
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Application
EP 10776787 A 20101006

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Abstract (en)
[origin: WO2011042659A1] The invention relates to a device (1) for capturing the energy of a current of fluid (F) including a Darrieus rotor (2) provided with at least one blade (3) oriented substantially tangential to the periphery of said rotor and sweeping a sweeping path (6) which defines an inner zone (7) and an outer zone (8), said device (1) comprising at least an inner baffle (11) and an outer baffle (12) located opposite one another on either side of the sweeping path (6), so as to form a circulation channel (14) having at least one narrowed portion (20) forming a Venturi, the inner baffle (11) having at least one centrifugal deviation portion (18) which is totally spaced apart from the centre of the rotor toward the periphery (19) of the rotor (2) in order to recover at least a portion of the current of fluid which has entered the inner zone (7) and then to accelerate the current by means of the Venturi. The invention can be used for wind turbines.

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