

Title (en)

EFFICIENT SYSTEMS AND METHODS FOR CONSTRUCTION AND OPERATION OF ACCELERATING MACHINES

Title (de)

EFFIZIENTE SYSTEME UND VERFAHREN FÜR DEN BAU UND BETRIEB VON BESCHLEUNIGUNGSMASCHINEN

Title (fr)

SYSTÈMES ET PROCÉDÉS EFFICACES POUR LA CONSTRUCTION ET LE FONCTIONNEMENT DE MACHINES D'ACCÉLÉRATION

Publication

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Application

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Abstract (en)

[origin: WO2010068780A1] [00363] In embodiments of the present invention improved capabilities are described for the efficiency with which fluid energy is converted into another form of energy, such as electrical energy, where an array of fluid energy conversion modules is contained in a scalable modular networked superstructure. In certain preferred embodiments, a plurality of turbines, such as for instance wind turbines, may be disposed in an array, where the plurality of arrays may be disposed in a suitable arrangement in proximity to each other and provided with geometry suitable for tight packing in an array with other parameters optimized to extract energy from the fluid flow. In addition, the turbines may be a more effective adaptation of a turbine, or an array of turbines, to varying conditions, including fluid conditions that may differ among different turbines in an array, or among different turbines in a set of arrays.

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