

Title (en)

A method for direct conversion of steam energy into pressure energy of a conveying medium and an arrangement for carrying out the method

Title (de)

Verfahren zur direkten Umwandlung von Dampfenergie in Druck-Energie auf ein Fördermedium und Anordnung zur Durchführung des Verfahrens

Title (fr)

Procédé de transformation directe d'énergie de vapeur en énergie de pression d'un fluide de transport et installation permettant de mettre en oeuvre le procédé

Publication

EP 2765280 B1 20160831 (DE)

Application

EP 14154162 A 20140206

Priority

DE 102013101216 A 20130207

Abstract (en)

[origin: EP2765280A2] The method involves generating steam from working medium (19) i.e. two-phase fluid such as water, in a closed circuit, and alternately feeding the steam into two interconnected rotary piston engines (101, 102). Pressure energy of a delivery medium (20) in a defined work area is transferred into an opposite side of a piston by rotary pistons (31, 32) and made available for further use. The relaxed working medium is returned into the closed circuit. The rotary piston engines are connected through a common control shaft (5) or equivalent kinematic element to achieve a synchronous movement. The water is selected from condensate and/or boiler water. An independent claim is also included for an arrangement for direct conversion of steam energy into pressure energy on a delivery medium.

IPC 8 full level

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CPC (source: EP)

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DOCDB simple family (publication)

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