

Title (en)

METHOD OF DRIVING A TURBINE IN ROTATION BY MEANS OF A JET DEVICE.

Title (de)

VERFAHREN, UM EINE TURBINE MITTELS EINES STRAHLAPPARATES ANZUTREIBEN.

Title (fr)

PROCEDE D'ENTRAINEMENT EN ROTATION D'UNE TURBINE PAR UN DISPOSITIF EJECTEUR.

Publication

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Application

EP 92922988 A 19921009

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Abstract (en)

[origin: US5553995A] PCT No. PCT/FR92/00957 Sec. 371 Date Apr. 7, 1994 Sec. 102(e) Date Apr. 7, 1994 PCT Filed Oct. 9, 1992 PCT Pub. No. WO93/07361 PCT Pub. Date Apr. 15, 1993A turbine device and a method of driving the turbine device are disclosed. The turbine device includes an admission channel, a turbine, and an injection channel. The turbine device may also include a regulator. The turbine is driven by injecting a primary fluid into the admission channel at a given velocity and simultaneously causing a secondary fluid to flow into the admission channel at a lower velocity. The primary fluid and the secondary fluid form a mixture in the admission channel, which flows toward the turbine. The velocity of the mixture is less than that of the primary fluid, while the mass flow of the mixture is approximately equal to the sum of the mass flows of the primary and secondary fluids. The regulator compares the rotational speed of the turbine to a target speed and regulates parameters associated with the turbine device if the rotational speed of the turbine and the target speed differ by more than a predetermined amount.

Abstract (fr)

Procédé permettant l'utilisation d'une turbine à des vitesses et des puissances variables. Un injecteur (14) à effet Venturi est placé en amont d'une turbine (12) et transforme une commande de pression en une commande de débit masse d'un fluide mélangé. Des capteurs (19) et un moyen de régulation (50) permettent à adapter la vitesse de la turbine (12) à une vitesse de consigne.

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