

Title (en)

Method and apparatus for creating an increased hydrodynamic head of fluid jets.

Title (de)

Verfahren und Vorrichtung zur Erhöhung des hydrodynamischen Druckes von Flüssigkeitsstrahlen.

Title (fr)

Méthode et dispositif pour l'augmentation de la pression hydrodynamique de jets de fluide.

Publication

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Application

EP 91113497 A 19910812

Priority

IL 9534890 A 19900812

Abstract (en)

[origin: EP0471321A1] The method of generating an increased hydrodynamic head of fluid jet consists of the following sequence of operations: formation of two-phase gas-liquid or steam-liquid flow, formation of hydrodynamic flow regime of the obtained two-phase mixture with a velocity exceeding the sound speed of said mixture, providing conditions for generation of shock wave - abrupt pressure rise - gaseous phase condensation (dissolving) in said gas-liquid or steam-liquid stream which flows with a speed exceeding the sound speed for this medium, and side draining liquid in full or in part from said zone of shock wave - abrupt pressure rise - condensation (dissolving) of said gaseous phase. This method allows a substantial increase of the hydrodynamic head of liquid jet inside the post-shock zone. <IMAGE>

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Cited by

CN102102505A; US10588276B2; US6157774A; EP0878560A3; US9931648B2; US10507480B2; WO9901194A1; WO2011040837A1

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