

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

**EP 0471321 B1 19951122 (EN)**

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>

IPC 1-7

**B01F 5/04**

IPC 8 full level

**B01F 5/04** (2006.01)

CPC (source: EP)

**B01F 25/3122** (2022.01); **B01F 25/31242** (2022.01)

Cited by

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

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0471321 A1 19920219; EP 0471321 B1 19951122; DE 69114783 D1 19960104; DE 69114783 T2 19960725; IL 95348 A0 19910630**

DOCDB simple family (application)

**EP 91113497 A 19910812; DE 69114783 T 19910812; IL 9534890 A 19900812**