

Title (en)

PRESSURISED WATER RELEASING NOZZLE FOR GENERATING MICROBUBBLES IN A FLOTATION PLANT

Title (de)

DRUCKWASSERABGABEDÜSE ZUR ERZEUGUNG VON MIKROBLÄSCHEN IN EINER FLOTATIONSANLAGE

Title (fr)

BUSE DE DETENTE D EAU PRESSURISEE POUR GENERER DES MICROBULLES DANS UNE INSTALLATION DE FLOTTATION.

Publication

**EP 1680213 A1 20060719 (FR)**

Application

**EP 04791465 A 20041005**

Priority

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- FR 0311910 A 20031010

Abstract (en)

[origin: WO2005035105A1] The inventive nozzle comprises a first releasing stage (1) for producing a pre-release by absorbing from 5 to 20 % of available pressure, a second releasing stage (2) wherein a substantial release is carried out and the pressurised water passes from a saturation pressure to an output nozzle pressure, an intermediate chamber (3) in the form of a transition chamber in which the pressurised water approaches the saturation pressure by absorbing from 5 to 30 % of the available pressure and an outlet tube (3) consisting of a sudden release and cavitation confinement tube whose minimum length (l) substantially corresponds to a distance separating the end of said tube on the second release stage side from a readhesion point of jets to the tube wall at the angle of divergence (  $\alpha$  ) thereof ranging from 3 to 12 DEG before readhesion.

IPC 1-7

**B01F 3/08**

IPC 8 full level

**B03D 1/14** (2006.01); **B05B 1/34** (2006.01)

IPC 8 main group level

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CPC (source: EP KR US)

**B03D 1/14** (2013.01 - EP KR US); **B03D 1/242** (2013.01 - EP US); **B05B 1/34** (2013.01 - EP US)

Citation (search report)

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