

Title (en)

DEVICE FOR ATOMIZING A MELT STREAM AND METHOD FOR ATOMIZING HIGH-FUSION METALS OR CERAMICS

Title (de)

VORRICHTUNG ZUM VERDESEN EINES SCHMELZESTRAHLS UND VERFAHREN ZUM VERDESEN VON HOCHSCHMELZENDEN METALLEN ODER KERAMIKEN

Title (fr)

DISPOSITIF POUR ATOMISER UN JET DE MATIERE FONDUE ET PROCEDE POUR ATOMISER DES METAUX OU DES CERAMIQUES REFRACTAIRES

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Application

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Abstract (en)

[origin: WO2005023465A1] The invention relates to a device and a method for reducing a melt stream, especially high-fusion metals or ceramics, to powder. The melt stream can be in the form of a monofil or a film and is issued by a melt nozzle supplied with melt the discharge opening of which is disposed in the area of a Laval nozzle. The melt stream is accompanied by a preferably "cold" gas flow that is accelerated by the Laval nozzle up to supersonic speed and bursts open behind the Laval nozzle. The melt nozzle is surrounded by a heat-insulation material that reaches up to the area of the Laval nozzle and substantially leaves open only the discharge opening of the melt nozzle in such a manner that the issued melt stream is shielded from the gas flow at the discharge point.

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