

Title (en)

NOZZLE FOR DOSING LIQUID MICROFLUX IN A HIGH-TEMPERATURE ENVIRONMENT

Title (de)

DÜSE ZUR DOSIERUNG KLEINSTER FLÜSSIGKEITSSTRÖME IN HOCHTEMPERATURUMGEBUNG

Title (fr)

BUSE POUR DOSER DES MICROFLUX DE LIQUIDE DANS UN ENVIRONNEMENT A HAUTE TEMPERATURE

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Application

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Abstract (en)

[origin: DE19722338A1] The invention relates to a device for atomizing a medium, comprising a nozzle tip with an atomization body having at least one atomization orifice, in addition to a cooling device. The invention is characterized in that the atomization orifice or each atomization orifice (7) has a diameter of less than or equal to 50 μ m, in that the cooling device (8, 12) has a chamber (12) that can be cross-flown by the coolant (14) and surrounds the nozzle tip (3) so that the device can be kept at a specified temperature up to the exit of the atomization orifice (7), and in that a seal (9) is arranged behind the atomization body (6) in the direction of flow, which prevents the outflow of the medium (13) by bypassing the atomization body (6).

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