

Title (en)  
SPRAY NOZZLE FOR OVERHEATED LIQUID

Title (de)  
ZERSTÄUBUNGSDÜSE FÜR ÜBERHITZTE FLÜSSIGKEITEN

Title (fr)  
BUSE DE PULVERISATION DE LIQUIDE SURCHAUFFE

Publication  
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Application  
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Abstract (en)  
[origin: US2007176022A1] The invention relates to a device allowing an overheated liquid to be sprayed in very fine droplets at a very high speed, comprised of a nozzle body ( 1 ) followed by a mixer head and several injectors ( 16 ) opening onto a divergent and speed attainment nozzle ( 5 ). The invention also relates to fittings designed to adjust the exit section of the nozzle by adding a profiled core ( 11 ) that may slide on the axis of the divergent nozzle ( 5 ) and allowing, depending on its position, the exit section of the nozzle to be adjusted to maintain a maximum ejection speed of sprayed droplets. The device is essentially designed for chemical and energy industries.

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