

Title (en)

TWO-COMPONENT NOZZLE, BUNDLE NOZZLE AND METHOD FOR ATOMIZING FLUIDS

Title (de)

ZWEISTOFFDÜSE, BÜNDELDÜSE UND VERFAHREN ZUM ZERSTÄUBEN VON FLUIDEN

Title (fr)

BUSE À DEUX COMPOSANTS, GROUPE DE BUSES ET PROCÉDÉS DE PULVÉRISATION DE FLUIDES

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Application

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Abstract (en)

[origin: US2010116900A1] Two-substance nozzle, cluster nozzle with several two-substance nozzles and method for the atomization of fluids by means of a two-substance nozzle. The invention relates to a two-substance nozzle with a nozzle housing, said nozzle housing comprising at least one fluid inlet for fluid that is to be atomized, a second fluid inlet for gaseous fluid, a mixing chamber, a nozzle outlet opening and an annular gap opening surrounding the nozzle outlet opening, whereby, within the nozzle housing, means are provided for generating a film of fluid that is to be atomized on a wall in the mixing chamber, and inlet openings are provided for injecting gaseous fluid into the mixing chamber. In accordance with the invention, the inlet openings and the mixing chamber are aligned and configured in a manner so as to inject the gaseous fluid essentially parallel to the wall in the mixing chamber and to move the stream of gaseous fluid within the mixing chamber essentially parallel past the wall. Use, e.g., for flue gas cleaning.

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