

Title (en)

An apparatus and method for atomising a liquid.

Title (de)

Vorrichtung und Verfahren zur Zerstäubung einer Flüssigkeit.

Title (fr)

Appareil et procédé pour pulvériser un liquide.

Publication

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Application

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Abstract (en)

An apparatus for atomising a liquid comprises an annular housing (32) which has a radially inner curved annular Coanda surface (34). The housing (32) has an outlet (40) in its radially inner circumferentially extending side which supplies a first pressurised fluid onto the Coanda surface (34). Diametrically opposite, confronting, surface portions (31,33) of the Coanda surface (34) define a convergent/divergent passage (35,37,39). A liquid is discharged from a nozzle (42) into the convergent portion (35) of the convergent/divergent passage so that a stream of liquid is positioned between the confronting surface portions (31,33). A second fluid is entrained by the first fluid (F) flowing over the Coanda surface (34). The second fluid (G) flows between the first fluid (E) and the stream of liquid, and the liquid is atomised as it interacts with the flow field generated by the apparatus. The liquid stream is automatically centralised between the confronting surface portions (31,33) to give uniform atomisation. <IMAGE>

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Cited by

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