

Title (en)

DEVICE FOR THE CONTROLLED DOSING OF A FLUID

Title (de)

VORRICHTUNG ZUR GESTEUERTEN DOSIERUNG EINER FLÜSSIGKEIT

Title (fr)

DISPOSITIF POUR DOSER UN FLUIDE DE MANIERE CONTROLEE

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Application

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Priority

- FR 9401408 W 19941202
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Abstract (en)

[origin: WO9515520A1] The present invention relates to a device providing for the metering of a small flow rate of a fluid (1) by using a second drive fluid (2), the pressure of which is regulated, the flow rate of one or the other of said fluids being measured by determining head losses for long channels operating in laminar flow (14, 15, 16, 36) and arranged on their paths. It is thus possible to produce quasi universal dosers whose range of flows may reach typically 1000. It is also possible to dose dangerous fluids or fluids whose rheological properties are complex by measuring the flow rates of the drive fluid separately from the fluid to be metered, both fluids being separated by a wall or free surface. The laminar head losses may be obtained by means of spirals engraved in insets in contact with planar walls.

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