

Title (en)
FLUID FLOW APPARATUS

Title (de)
GERÄT ZUR FLÜSSIGKEITSSTRÖMUNG

Title (fr)
APPAREIL DE DEBIT DE FLUIDE

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Application
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Abstract (en)
[origin: WO9964175A1] The invention relates to an apparatus (1) for providing a flow of fluid, such as wash liquid suitably water for washing the interior of a discharge station (2) for particulate material, the apparatus (1) being mounted in a wall (3), which may be a hopper of the station (2). The apparatus (1) has a non-return valve (4) for obviating reverse flow of material from an outlet (5) for the fluid to an inlet (6) therefor, of the apparatus (1). The outlet (5) is defined by a nozzle which is a rotary nozzle extending from a body (8) of the apparatus (1), which is securely mounted in an orifice in a boss (9) in the wall (3) by a clamp (10). The non-return valve (4) comprises a generally cylindrical hollow valve poppet which has an open end (11) facing the outlet (5) and which is mounted in the bore for reciprocable sliding motion, an external wall of the valve poppet being in sliding contact with a part (12) of the bore of the body. There is a biasing means (13) in the form of a spring, part of which is mounted in the valve poppet, and part of which extends therefrom to bear on an abutment (14) of the device adjacent the outlet (5). The spring (13) normally acts to bias the valve poppet in a direction towards the inlet (6), the valve poppet having a sealing means in the form of a frustoconical end (15) which can seal with a complementary part (16) of the body (8) which is adjacent an end of the body (8) defining the inlet (6). There is also means (17) in the form of an orifice through the wall of the valve poppet (4) providing means to the interior thereof so that water can pass therethrough from the inlet in the direction of arrow "X" to the rotary nozzle.

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