Title (en)

Nozzle.

Title (de)

Düse.

Title (fr)

Buse.

Publication

EP 0645191 A2 19950329 (DE)

Application

EP 94112048 A 19940802

Priority

DE 4328744 A 19930826

Abstract (en)

The rotating jet assembly (1), esp. for watery liquids. to be sprayed at the walls and side walls of containers, has a jet housing (2) with an inner zone (4) and a liq. inlet (11). A drilling (6) leads outwards from the inner zone, and forms an axial bearing surface (8) in the inner zone (4), extending into a radial bearing surface. A rotating shaft (17) in the drilling has a projecting axial bearing shoulder in the inner zone (4) acting with the axial bearing surface (8), to form an axial sliding bearing (23) to give a friction brake controlled by the liq. pressure. A jet head (22), outside the housing (2), is keyed to the shaft (17), and has at least one jet drilling (41), to emerge radially from the jet head for the liq., in relation to the shaft, to deliver it from the jet (1). The fluid flow is through a channel system (33,34,42) between the inlet (11) through the shaft (17) to the jet head (22). A drive (13) turbine, acting directly on the shaft (17) and without any gearing, is powered by the liq. flow pressure at the inlet (11) to drive the shaft (17). At least one axial bearing surface (8) is of PTFE> ADVANTAGE : The system gives jet head rotation, without a geared drive, to give a slow rotation, and to increase speed in a pressure range which does not match the liq. pressure.

Abstract (de)

Eine rotierende Düse (1) weist ein Gehäuse (2) auf, in dem eine Turbine (13) drehbar gelagert ist. Die Turbine (13) sitzt auf einer rohrförmigen Welle (17), deren aus dem Gehäuse (2) herausragendes Ende den Düsenkopf (22) trägt. Um auch bei hohen Flüssigkeitsdrücken eine niedrige Drehzahl der Düse (1) zu erreichen, ist das Lager (23), mit dem die Turbine (13) in dem Gehäuse (2) gelagert ist, ein Axialgleitlager. <IMAGE>

IPC 1-7

B05B 3/04

IPC 8 full level

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CPC (source: EP)

A47L 11/38 (2013.01); **A47L 11/4044** (2013.01); **A47L 11/4069** (2013.01); **B05B 1/14** (2013.01); **B05B 3/003** (2013.01); **B05B 3/027** (2013.01); **B05B 3/0427** (2013.01)

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