Title (en)

DEVICE FOR CONTROLLING THE FLOW RATE OF A NOZZLE

Publication

EP 0347551 A3 19900725 (DE)

Application

EP 89107238 A 19890421

Priority

DE 3821212 A 19880623

Abstract (en)

[origin: EP0347551A2] In a device (1) for controlling the quantity of a medium flowing out of a nozzle (14), having a delivery pump (2) and a delivery chamber (10), installed in said delivery chamber there is a control sheath (31) and a control piston (32) cooperating with it, which are displaceably driven with the valve body (13) of the outlet valve assigned to the pump (2) and counter to the force of a restoring spring (38). In addition, the control sheath (31) and/or the control piston (32) is provided with throttle orifices (33), the through-hole cross-sectional surface of which can be adjusted in order to adjust the respective quantity of the medium flowing off through the nozzle (14) and can be automatically changed by relative displacements of the control piston (32) with respect to the control sheath (31) as a function of the position of the valve body (13) of the outlet valve (11). <??>As a result, it is possible to set the discharge quantity infinitely over a large range, without the delivery performance of the pump (2) and/or the degree of atomization being adversely affected. In this process, the excess medium delivered by the pump (2) is not fed back into the reservoir, but rather the medium remains in the pumping and/or delivery chamber (6 or 10). <IMAGE>

IPC 1-7

B05B 9/08; B05B 1/30

IPC 8 full level

B05B 1/30 (2006.01)

CPC (source: EP KR US)

B05B 1/3006 (2013.01 - EP US); **B05B 7/12** (2013.01 - KR)

Citation (search report)

[AD] DE 3621965 A1 19861218 - BRENNENSTUHL KG HUGO [DE]

Cited by

CN111974989A; US11950677B2

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

EP 0347551 A2 19891227; **EP 0347551 A3 19900725**; DE 3821212 A1 19891228; JP H0240253 A 19900209; KR 900000125 A 19900130; US 4982899 A 19910108

DOCDB simple family (application)

EP 89107238 A 19890421; DE 3821212 A 19880623; JP 15981189 A 19890623; KR 890007531 A 19890601; US 36859089 A 19890620