

Title (en)  
MANUAL DEVICE FOR DISPERSING A FLUID

Publication  
**EP 0306066 B1 19930512 (DE)**

Application  
**EP 88201604 A 19880705**

Priority  
• DE 3722470 A 19870708  
• DE 3722469 A 19870708

Abstract (en)  
[origin: US5147087A] PCT No. PCT/EP88/00598 Sec. 371 Date Jan. 5, 1990 Sec. 102(e) Date Jan. 5, 1990 PCT Filed Jul. 5, 1988 PCT Pub. No. WO89/00086 PCT Pub. Date Jan. 12, 1989. In a manually operable discharging apparatus, the discharge nozzle has an at least two-stage atomizer, in which the medium flow, following pre-atomization, is atomized by surge-like acceleration with a whirled, fine compressed air flow, e.g. according to the Laval, effect, so that even finer droplets are obtained. For this purpose to the discharge nozzle, a separate compressed air channel portion upstream of the end opening supplies compressed air from a time immediately before the supply of medium to a time after its supply. The compressed air can be produced in simple manner by a compressed air pump combined constructionally with the medium pump and operable together therewith by means of a single handle and which in the extension of medium pump is provided immediately adjacent to its outer end and whose pump cylinder is formed by the cap-like handle. The compressed air flow can also be passed to other points of the discharging apparatus, e.g. for cleaning the medium outlet channel for discharge nozzle and can be used for control functions for valves, particularly outlet valves.

IPC 1-7  
**B05B 11/06**; **B05B 7/10**

IPC 8 full level  
**B05B 11/06** (2006.01); **B05B 1/34** (2006.01); **B05B 7/04** (2006.01); **B05B 7/10** (2006.01); **B05B 11/00** (2006.01); **B65D 47/34** (2006.01); **B65D 83/14** (2006.01)

CPC (source: EP KR US)  
**B05B 7/0416** (2013.01 - EP US); **B05B 7/10** (2013.01 - EP US); **B05B 11/06** (2013.01 - KR); **B05B 11/1016** (2023.01 - EP US); **B05B 11/1018** (2023.01 - EP US); **B05B 11/1023** (2023.01 - EP US); **B05B 11/1087** (2023.01 - EP US)

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CN104743276A; FR2748407A1; WO9741965A1

Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
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DOCDB simple family (application)  
**EP 8800597 W 19880705**; AT 88201492 T 19880705; AT 88201604 T 19880705; AU 1990288 A 19880705; AU 2072188 A 19880705; CA 571355 A 19880707; CA 616733 A 19930921; DE 3722469 A 19870708; DE 3722470 A 19870708; DE 3855004 T 19880705; DE 3880934 T 19880705; EP 8800598 W 19880705; EP 88201492 A 19880705; EP 88201604 A 19880705; EP 88905806 A 19880705; EP 88905807 A 19880705; ES 88201492 T 19880705; JP 50571688 A 19880705; JP 50585788 A 19880705; KR 890700420 A 19890308; SU 4742849 A 19900108; SU 4742904 A 19880705; US 45536190 A 19900207; US 45536290 A 19900105; ZA 884905 A 19880708