

Title (en)  
Manually actuated atomiser

Title (de)  
Zerstäuber für manuelle Betätigung

Title (fr)  
Pulvérisateur actionné à la main

Publication  
**EP 1312418 B1 20080827 (DE)**

Application  
**EP 02023179 A 20021016**

Priority  
DE 10154237 A 20011107

Abstract (en)  
[origin: DE10154237A1] The manual sputterer for fluids, to apply a droplet spray to a surface, has energy stored by a spring (59) using a coil spring, a plate spring or a gas spring. together with a piston (81) and two channels. The spray action is triggered by manual release (58) of a locking mechanism (74). The spring is outside the fluid storage zone, and acts on the piston to force a small volume of the fluid out of the cylinder (53) at a pressure of 1-5 MPa (10-50 bar). The distribution of the droplet sizes can be adjusted, with a mean droplet size of  $\leq 50 \mu m$ . The mass flow through the jet (60) is  $\leq 0.4$  g/second.

IPC 8 full level  
**B05B 11/00** (2006.01); **B05B 1/34** (2006.01); **B05B 9/08** (2006.01)

CPC (source: EP US)  
**B05B 1/3436** (2013.01 - EP US); **B05B 9/0883** (2013.01 - EP US); **B05B 11/1091** (2023.01 - EP US); **B05B 1/3447** (2013.01 - EP US)

Cited by  
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WO2004034923A1; US10011906B2; US10220163B2; US10124125B2; US10722666B2; US9682202B2; US9827384B2; US9943654B2;  
WO2019016410A1; US10004857B2; US10124129B2; US10894134B2; US11642476B2; US9364841B2; US10016568B2; US10195374B2;  
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