

Title (en)  
Multichannel droplet generator

Title (de)  
Mehrkanal-Tropfengenerator

Title (fr)  
Générateur multicanaux de gouttelettes

Publication  
**EP 1036594 B1 20050615 (DE)**

Application  
**EP 00104462 A 20000307**

Priority  
DE 19911456 A 19990308

Abstract (en)  
[origin: EP1036594A2] Tubular shaped outlets (4) are present on the outlets (13), whose cross-section is smaller than the cross-section of the channels in the distributor (3) and whose length and cross-section are coordinated with the elasticity length and cross-section elastic connection (2) and conveying speed of the dosing arrangement (1). The multichannel-drop generator has a dynamic behavior which leads to a contact-free liquid removal and a subsequent complete emptying of the outlet (4). Multichannel-drop generator has a dosing arrangement (1), distributor (3) having an inlet (12) and several outlets (13), and an elastic connector (2) that connects the dosing arrangement (1) with the inlet (12). The inlet (12) is connected to the outlets (13) via a planar channel system made up of cascading T-pieces, which leads to a homogenous pressure distribution.

IPC 1-7  
**B01L 3/02**; **B01L 11/00**

IPC 8 full level  
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CPC (source: EP)  
**B01L 3/0268** (2013.01); **B01L 2300/0864** (2013.01); **B01L 2400/0487** (2013.01)

Cited by  
US7379832B2; EP1424130A3; EP1520618A3; US8932544B2; US7553452B2

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