

Title (en)
FOCUSSED ELECTROSPRAY DEVICE

Title (de)
FOKUSSIERTE ELEKTROSPRAYVORRICHTUNG

Title (fr)
DISPOSITIF DE PULVERISATION ELECTRIQUE FOCALISEE

Publication
EP 1444048 A1 20040811 (DE)

Application
EP 02803023 A 20021114

Priority
• DE 10155775 A 20011114
• DE 20201510 U 20020131
• DE 20210784 U 20020716
• EP 0212763 W 20021114

Abstract (en)
[origin: WO03041869A1] The invention relates to a device for the spraying of electrically charged fluids, a device for generation of an ion cloud with an aperture within the ion cloud and application of said devices in mass spectrometry. The aim of the invention is to produce a comparatively very fine electrospray with a spray cone having a comparatively small apex angle, in order to improve sensitivity on application in mass spectrometry. Said aim is achieved, whereby a charged fluid (1) is sprayed through an electric field to give an electrospray (5), the electrospray is diverted, or restricted in the extent thereof by means of a gas flow (2) or several gas flows, whereby the spraying point is not affected by the gas stream (2) the gas stream being thus not involved in the generation of the electrospray.

IPC 1-7
B05B 7/06; **B05B 5/025**

IPC 8 full level
B05B 5/025 (2006.01); **B05B 7/06** (2006.01); **H01J 49/04** (2006.01)

CPC (source: EP)
B05B 5/0255 (2013.01); **B05B 7/067** (2013.01); **B05B 7/1613** (2013.01); **H01J 49/045** (2013.01); **H01J 49/167** (2013.01)

Citation (search report)
See references of WO 03041869A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
WO 03041869 A1 20030522; DE 20210784 U1 20031127; EP 1444048 A1 20040811

DOCDB simple family (application)
EP 0212763 W 20021114; DE 20210784 U 20020716; EP 02803023 A 20021114