

Title (en)

DEVICE FOR THE PRODUCTION OF MICRODROPLETS BY MEANS OF LIQUID EJECTION AND METHOD OF PRODUCING ONE SUCH DEVICE

Title (de)

VORRICHTUNG ZUR ERZEUGUNG VON MIKROTRÖPFCHEN MITTELS FLÜSSIGKEITSAUSSTOSS UND VERFAHREN ZUR HERSTELLUNG EINER SOLCHEN VORRICHTUNG

Title (fr)

DISPOSITIF DE PRODUCTION DE MICRO-GOUTTES PAR EJECTION DE LIQUIDE ET PROCEDE DE REALISATION D'UN TEL DISPOSITIF

Publication

**EP 1765499 A2 20070328 (FR)**

Application

**EP 05757262 A 20050414**

Priority

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Abstract (en)

[origin: WO2005107946A2] The invention relates to a device for the production of microdroplets by means of liquid ejection. The inventive device consists of a sealed chamber (1) comprising a liquid inlet (2) and at least one liquid outlet (3) and, for example, an actuating piezoelectric plate (7) which causes droplets (10) to be ejected through the outlet (3). The chamber (1) is defined mainly by lower (5) and upper (6) rigid plates and an essentially-annular, thin deformable seal (4) which is disposed between the plates (5, 6) and which forms a lateral wall of the chamber (1). The piezoelectric plate (7) causes a relative movement between all of the lower (5) and upper (6) plates in terms of bending and/or translation, by compressing the deformable seal (4). According to the invention, the lower (5) and upper (6) plates are stiffer than the deformable seal (4).

IPC 8 full level

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