

Title (en)  
COMPACT SPRAYING DEVICE

Title (de)  
KOMPAKTE SPRÜHVORRICHTUNG

Title (fr)  
DISPOSITIF DE PULVÉRISATION COMPACT

Publication  
**EP 3227622 B1 20180829 (FR)**

Application  
**EP 15808754 A 20151126**

Priority  
• FR 1402792 A 20141205  
• FR 1551558 A 20150224  
• FR 2015053236 W 20151126

Abstract (en)  
[origin: WO2016087752A1] Nebulisation device (1) capable of generating a mist of droplets of a liquid from a liquid (5) contained in a tank (2), said device (1) comprising: a piezoelectric element (3) able to emit acoustic waves into said liquid (5), an acoustic reflection surface (4) immersed in said liquid (5), able to focus the acoustic waves emitted by said piezoelectric element (3) onto a focal zone situated beneath the surface (6) of the liquid (5) to create a jet of mist (20) referred to as "primary nebulisation jet", a deflector (7) of the primary nebulisation jet (20), a mist diffusing system (9) via which said mist of droplets leaves said device (1), characterized in that the emitting face of said piezoelectric element (3) forms, with the surface of said liquid (5), an angle  $\alpha$  of between 60° and 95°, preferably between 70° and 95° and more preferably still, between 75° and 90°, said deflector (7) being able to orient said jet in a direction substantially the opposite of the direction in which the acoustic waves are emitted by the piezoelectric element and in the direction of said mist diffusing system (9).

IPC 8 full level  
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CPC (source: EP)  
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