

Title (en)
Nozzle with incorporated valve.

Title (de)
Düse mit eingebautem Ventil.

Title (fr)
Buses à clapet incorporé.

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EP 0471610 A1 19920219 (FR)

Application
EP 91402204 A 19910808

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FR 9010441 A 19900817

Abstract (en)
The subject of the invention is a spray nozzle (1) comprising a cap (3a) pierced with a narrow orifice (3b) and an internal axial core, the opposing faces of these two parts interacting in order to form a system of swirling channels feeding the orifice (3b), and incorporating in an upstream chamber a valve (4) having a circular cup (4b) of concavity turned towards the downstream side which is carried by an axial guiding stock, guided laterally, movable axially and acting here as a core. <??>This nozzle can be used on any atomiser, especially a miniature atomiser, which it is desired to make leaktight, the number of its parts is reduced to two and they are simple to mount, which leads to a manufacture with a particularly advantageous cost price. <IMAGE>

Abstract (fr)
L'invention a pour objet une buse pulvérisatrice (1) comportant un opercule (3a) percé d'un étroit orifice (3b) et un noyau axial interne, les faces en regard de ces deux pièces coopérant pour former un système de canaux tourbillonnaires alimentant l'orifice (3b), et incorporant dans une chambre en amont un clapet (4) à cupule circulaire (4b) de concavité tournée vers l'aval que porte un tronc de guidage axial, guidé latéralement, mobile axialement et servant ici de noyau. Cette buse est utilisable sur tout vaporisateur, notamment miniature, que l'on désire rendre étanche, son nombre de pièces est réduit à deux et leur montage simple, ce qui conduit à une fabrication d'un prix de revient particulièrement avantageux. <IMAGE>

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B05B 1/3436 (2013.01 - EP US); **B05B 11/007** (2013.01 - EP US)

Citation (search report)
• [AD] FR 2635084 A1 19900209 - SOFAB [FR]
• [A] US 4538745 A 19850903 - DUNNING WALTER B [US], et al
• [A] WO 8505572 A1 19851219 - BUNDSCHUH ROBERT L

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EP0598237A3; FR2705589A1; US5769325A; US6189739B1; EP0764471A2; WO9746324A1; WO9427732A1

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