

Title (en)

Ultra-fine spray nozzle with intersecting jets

Title (de)

Ultrafeine Sprühdüse mit sich überschneidenden Sprühstrahlen

Title (fr)

Buse à pulvérisation ultra-fine avec jets convergents

Publication

EP 1731225 A1 20061213 (EN)

Application

EP 05253464 A 20050606

Priority

EP 05253464 A 20050606

Abstract (en)

An ultra-fine spray-jetting nozzle includes a liquid passage (37) and a gas passage (41) that is disposed on a peripheral side of the liquid passage (37) through a partitioning wall and communicates with a jetting port (A). An outer surface of the partitioning wall at a jetting port side thereof is formed sectionally polygonal, long circular or elliptic. A peripheral surface of the gas passage (41) is formed sectionally circular. The outer surface of the partitioning wall having the configuration is brought into contact with the sectionally circular peripheral surface of the gas passage (41) at a plurality of positions to circumferentially divide the gas passage (41) at the jetting side into a plurality of gas passages. A gas jetted from jetting ports (A) of a plurality of the separate gas passages is mixed with a periphery of a liquid jetted from the liquid passage (37) to generate spray.

IPC 8 full level

B05B 7/06 (2006.01)

CPC (source: EP)

B05B 7/066 (2013.01); **B05B 7/0846** (2013.01); **B05B 7/0892** (2013.01); **B05B 7/2435** (2013.01)

Citation (search report)

- [X] EP 0839579 A1 19980506 - ANI OFF MEC SPA [IT]
- [X] FR 1273772 A 19611013 - CURT HIEKEL
- [X] DE 9215107 U1 19921224
- [AD] JP 4009104 B & EP 0249186 A1 19871216 - IKEUCHI KK [JP]

Designated contracting state (EPC)

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DOCDB simple family (publication)

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