

Title (en)

Low pressure air atomizing spray gun.

Title (de)

Pneumatische Niederdruckspritzpistole.

Title (fr)

Pistolet de pulvérisation pneumatique à basse pression.

Publication

**EP 0411830 A2 19910206 (EN)**

Application

**EP 90308206 A 19900726**

Priority

- JP 8780489 U 19890726
- JP 8780589 U 19890726
- JP 19362689 A 19890726

Abstract (en)

A low pressure atomizing spray gun (1), in which a paint is injected from a nozzle (22), an opening of the nozzle is controlled by a needle valve (14), air is mixed with an injected paint flow, air is injected from both sides after the air-paint mixture is sprayed from an spraying nozzle and it is mixed again and atomized. The nozzle is formed in circular hole with circular outer shape, and said spray hole (32) is designed in a lip-like hole having different diameters in longitudinal and lateral directions and with outer shape in conical or similar shape. Lateral air holes (32) are furnished in front of said spray hole, at opposite positions on both sides of spray flow and injecting the diffusing air flow toward the spray flow. A second injection hole (45) is furnished to inject the secondary air from obliquely behind said injection hole and to make the air collide with the flattened spray flow.

IPC 1-7

**B05B 7/08**

IPC 8 full level

**B05B 7/04** (2006.01); **B05B 7/08** (2006.01); **B05B 7/00** (2006.01)

CPC (source: EP)

**B05B 7/0081** (2013.01); **B05B 7/0475** (2013.01); **B05B 7/0815** (2013.01)

Cited by

EP1402941A4; CN113477430A; CN103272728A; CN106140514A; CN101963244A; WO9217279A1; WO2013071398A1; US8524312B2; US9364839B2

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