

Title (en)

Plural component spray gun.

Title (de)

Mehrkomponentenspritzpistole.

Title (fr)

Pistolet-pulvérisateur à plusieurs composants.

Publication

**EP 0063707 A1 19821103 (EN)**

Application

**EP 82102739 A 19820331**

Priority

US 25857881 A 19810429

Abstract (en)

A spray gun for dispensing plural component materials, such for example as polyurethane foam or plural component paint, mixes the components externally of the gun, not in the gun, so that flushing of the gun is not required when spraying is stopped. This is accomplished by providing a hollow and ported needle valve (66) in the gun, introducing one of the components into the gun and around the needle (82, 84, 86) and the other component through the port (70) to the interior of the needle (92, 98, 100). When the gun is off, the forward end of the needle seats against a fluid nozzle (32) to prevent spraying of the one component and the port (70) in the needle is sealed off from the supply of the other component. To spray the components, the gun is triggered to move the forward end of the needle (66) from its seat with fluid nozzle (32) and to position to port (70) in communication with the supply (92, 98, 100) of the other component, whereby both components are emitted from the gun, the one through the space between the needle and nozzle (86) and the other through an opening at the forward end (102) of the needle. Air jets (62, 64) atomize the spray and form the same into a fan-shaped pattern.

IPC 1-7

**B05B 7/10; B05B 7/06**

IPC 8 full level

**B05B 7/12** (2006.01); **B05B 7/08** (2006.01)

CPC (source: EP)

**B05B 7/0815** (2013.01)

Citation (search report)

- [X] US 2780496 A 19570205 - ASBECK HANS J, et al
- [X] US 3232540 A 19660201 - UGO CASSANMAGNAGO
- [X] DE 1034076 B 19580710 - WALTHER FA RICHARD C

Cited by

US9186688B2; EP0903211A3; JP2013537470A; EP2536509A4; EP0718042A1; US2012288631A1; EP0287043A3; US4955544A; EP0118635A3; EP0192097A3; US2012100296A1; CN102481590A; FR2939336A1; US2012141683A1; CN102802805A; WO2011100003A1; US8973522B2; WO8501894A1; WO2022042710A1; WO2004020111A1; WO2007068014A3; US8807460B2; US9027858B2; US9586221B2; US9675983B2

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