

Title (en)

MODULAR SPRAY GUN APPARATUS AND METHODS

Title (de)

MODULARER SPRÜHPISTOLENAPPARAT UND VERFAHREN

Title (fr)

APPAREIL ET PROCEDES DE PISTOLET A PULVERISATION MODULAIRE

Publication

EP 1682231 A4 20090923 (EN)

Application

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Priority

US 0333814 W 20031022

Abstract (en)

[origin: WO2005049145A1] Modular spray gun apparatus and methods are disclosed. In one embodiment, an apparatus includes a handle module and a head module that is removeably coupled to the handle module. The head module includes a first housing having an inlet adapted to be coupled to a source of pressurized gas, a flow passage extending between the inlet and an outlet, and a first coupling member proximate the outlet. Similarly, the head module includes a second housing having a second coupling member removeably coupled to the first coupling member of the first housing, a nozzle fluidly communicating with a spray outlet, and a needle assembly operatively associated with the nozzle to control a flow of liquid material and pressurized gas emanating from a mixing passage through the nozzle.

IPC 8 full level

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Citation (search report)

- [XA] US 5454517 A 19951003 - NAEMURA WILLIAM H [US]
- See references of WO 2005049145A1

Cited by

US10071388B2; US9802211B2; US11167298B2; US9802213B2; US10493473B2; US9751100B2

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