

Title (en)  
SPRAY GUN FOR PAINTING

Title (de)  
LACKIERSPRITZPISTOLE

Title (fr)  
PISTOLET DE PULVÉRISATION POUR PEINTURE

Publication  
**EP 2127758 A4 20110316 (EN)**

Application  
**EP 08710888 A 20080131**

Priority  
• JP 2008051992 W 20080131  
• JP 2007021034 A 20070131

Abstract (en)  
[origin: EP2127758A1] Lower spray gun trigger load is desired in view of worker protection and has been reduced by countermeasures including back pressure countermeasures for an air valve. The invention provides a needle valve of a spray gun with back pressure countermeasures to reduce trigger load of the gun. The spray gun has an air valve operated by a trigger and the needle valve for opening and closing a paint ejection opening. Spray air is taken out of a branch passage branched from a connection passage provided between an exit passage of the air valve and an air cap for atomization, supplied from a spray gun outer section via restriction passage to operation means directly connected to the rear of the needle valve and having a piston and a cylinder, and causes the needle valve to recede. A flow rate adjustment valve is provided in the restriction passage communicating with the branch passage to enable adjustment of the inflow amount of air into the cylinder.

IPC 8 full level  
**B05B 7/06** (2006.01); **B05B 7/12** (2006.01)

CPC (source: EP)  
**B05B 7/1209** (2013.01)

Citation (search report)  
• [IA] US 2101164 A 19371207 - SVEND BRAMSEN, et al  
• See references of WO 2008093893A1

Cited by  
CN102941177A; CN102698895A; WO2018011833A1; US11801521B2; DE102020106172A1; WO2021175611A1; US11826771B2; US11865558B2

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