

Title (en)  
PAINTING GUN PROVIDED WITH AN IMPROVED NOZZLE

Title (de)  
LACKIERPISTOLE MIT VERBESSERTER DÜSE

Title (fr)  
PISTOLET DE PEINTURE MUNI D'UNE BUSE AMÉLIORÉE

Publication  
**EP 4309800 A1 20240124 (EN)**

Application  
**EP 23185792 A 20230717**

Priority  
IT 202200015067 A 20220718

Abstract (en)  
A nozzle assembly (9) for painting gun (3), said nozzle assembly (9) comprising a nozzle (10) and a spray head (11), the nozzle (10) comprising a hollow tubular body along a longitudinal axis (A) and provided with a coupling portion (10a) configured to allow connection of the nozzle (10) to a body (4) of the painting gun (3) and an end portion (10b) defining an opening (8) fluidically connected to a source of painting fluid of the gun (3), the spray head (11) comprising a hollow main body housed around the nozzle (10) along the axis (A) and comprising a coupling portion (11a) configured to allow connection of the spray head (11) to the body (4) and an end portion (11b) defining with the nozzle a chamber (25) and an opening (21) fluidically connected to the chamber (25), the nozzle (10) and the spray head (11) being optimized to mix pressurized air and painting fluid in an optimal manner.

IPC 8 full level  
**B05B 7/06** (2006.01); **B05B 1/30** (2006.01); **B05B 7/08** (2006.01); **B05B 15/65** (2018.01)

CPC (source: EP)  
**B05B 7/068** (2013.01); **B05B 7/0815** (2013.01); **B05B 15/65** (2018.02); **B05B 1/3046** (2013.01)

Citation (applicant)  
IT 202200015067 A1 20240118 - AIRCOM SRL [IT], et al

Citation (search report)  
• [XYI] US 9446422 B2 20160920 - JONES JOHN D [US]  
• [Y] WO 2021165835 A1 20210826 - BARNINI S R L [IT], et al  
• [A] US 2020038892 A1 20200206 - VOLK EVA [DE], et al  
• [A] US 2022080448 A1 20220317 - VOLK EVA [DE], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4309800 A1 20240124**; IT 202200015067 A1 20240118

DOCDB simple family (application)  
**EP 23185792 A 20230717**; IT 202200015067 A 20220718