

Title (en)
COMPRESSED-AIR GUN

Title (de)
DRUCKLUFTPISTOLE

Title (fr)
PISTOLET A AIR COMPRIME

Publication
EP 1885508 A1 20080213 (DE)

Application
EP 06753637 A 20060516

Priority
• EP 2006004600 W 20060516
• DE 202005008831 U 20050603

Abstract (en)
[origin: WO2006128578A1] The invention relates to a compressed-air gun for ejecting pasty to highly viscous material, comprising an outer housing (1) which can be opened on at least one side and has a pressure-tight locating space (3) for a cartridge (4) containing the material, preferably comprising a handle (5) connected to the outer housing (1), comprising a compressed-air connection (6) for the locating space (3), the cartridge (4) to be used having a discharge tip (8) or the like at a front end face (7) and a cartridge piston (10) at the opposite end face (9), the locating space (3), when the cartridge (4) is inserted, also being sealed off at the discharge tip (8) passing through the end wall (2) of the outer housing (1), and it being possible, by pressurizing the locating space (3), for the cartridge piston (10) to be advanced in the cartridge (4) in the direction of the discharge tip (8), so that the material is ejected from the discharge tip (8). Provision is made for an additional compressed-air cylinder (13) having a thrust piston (14) displaceable therein in a sealed-off manner to be arranged on the outer housing (1), for the thrust piston (14) to form a thrust chamber (15) in the compressed-air cylinder (13) on the side remote from the locating space (3), which thrust chamber (15) is connected to or can be connected to the compressed-air connection (6), for the thrust piston (14), on the side facing the cartridge (4), to have a force-transmission element (16), in particular in the form of a piston rod, which enters the locating space (3) via a pressure-tight leadthrough (17) and, when the cartridge (4) is inserted, comes to bear against the cartridge piston (10) in a force-transmitting manner, and for the feed force at the cartridge piston (10) to be capable of being increased by virtue of the fact that increased pressure can be applied not only to the locating space (3) but also to the thrust chamber (15), a lower pressure, in particular ambient pressure, prevailing on the side of the thrust piston (14) opposite the thrust chamber (15).

IPC 8 full level
B05C 17/015 (2006.01)

CPC (source: EP)
B05C 17/015 (2013.01)

Citation (search report)
See references of WO 2006128578A1

Cited by
FR3069466A1; DE102009007116B4

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006128578 A1 20061207; AT E422400 T1 20090215; AU 2006254407 A1 20061207; AU 2006254407 B2 20100527; DE 202005008831 U1 20061012; DE 502006002826 D1 20090326; EP 1885508 A1 20080213; EP 1885508 B1 20090211

DOCDB simple family (application)
EP 2006004600 W 20060516; AT 06753637 T 20060516; AU 2006254407 A 20060516; DE 202005008831 U 20050603; DE 502006002826 T 20060516; EP 06753637 A 20060516