

Title (en)
COMPRESSED-AIR GUN

Title (de)
DRUCKLUFTPISTOLE

Title (fr)
PISTOLET A AIR COMPRIME

Publication
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Application
EP 06753637 A 20060516

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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).

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Cited by
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