

Title (en)
NOZZLE FOR CO2-SNOW/CRYSTALS

Title (de)
DÜSE FÜR CO2-SCHNEE/KRISTALLE

Title (fr)
BUSE POUR NEIGE/CRISTAUX DE CO2

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Abstract (en)
[origin: WO2006034824A2] The invention relates to a nozzle (1) for the oriented discharge of CO2-snow and compressed air. A central region (5) of the nozzle (1) comprises at least one first discharge opening (6) which is embodied in such a manner that it produces a central beam (2) of CO2-snow having a supersonic speed. The central region (5) of the nozzle (1) is surrounded by a peripheral area (7) which is provided with a plurality of second discharging openings (8) which are arranged about the first discharge opening (6) and embodied such that they can produce a covering beam (3) which is made of air, preferably compressed air, and which surrounds the central beam (2), and has a slower speed than the central beam (2). The covering beam (3) has the same direction as the central beam (2). The invention also relates to a method for treating, in particular cleaning, a work piece which is to be coated with CO2-snow, and a central beam (2) of CO2-snow having a speed greater than 200 m/s which is directed to the workpiece by means of the covering beam (3) which is made of air and/or compressed air and which surrounds the central beam, and the covering beam (3) has a slower speed than the central beam (2).

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