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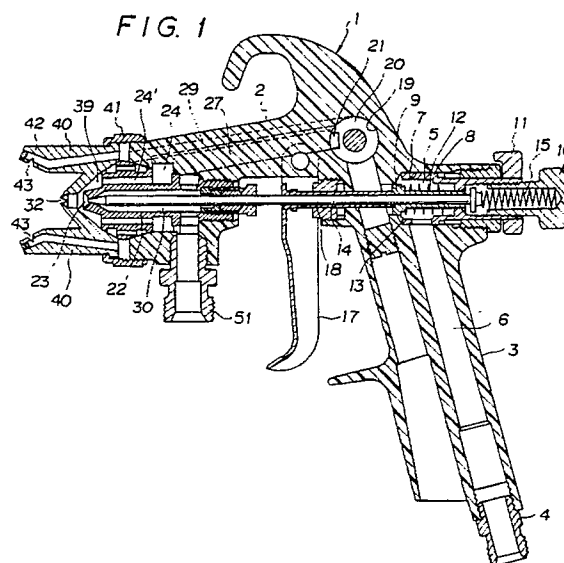
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(54) **Low pressure air atomizing spray gun.**

(57) A low pressure atomizing spray gun (1), in which a paint is injected from a nozzle (22), an opening of the nozzle is controlled by a needle valve (14), air is mixed with an injected paint flow, air is injected from both sides after the air-paint mixture is sprayed from an spraying nozzle and it is mixed again and atomized. The nozzle is formed in circular hole with circular outer shape, and said spray hole (32) is designed in a lip-like hole having different diameters in longitudinal and lateral directions and with outer shape in conical or similar shape. Lateral air holes (32) are furnished in front of said spray hole, at opposite positions on both sides of spray flow and injecting the diffusing air flow toward the spray flow. A second injection hole (45) is furnished to inject the secondary air from obliquely behind said injection hole and to make the air collide with the flattened spray flow.



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	US-A-2 152 046 (GUSTAFFSON et al.) * Figures 5,11,13,15,17,19; page 1, column 1, line 42 - column 2, line 4; page 3, column 1, line 1 - column 2, line 31 *	1,3,5	B 05 B 7/08
A	-----	2,4-9	
A	FR-A-2 350 887 (AIR INDUSTRIE) * Page 2, lines 34-37; page 3, lines 16-24; figures 2,3; claim 4 * -----	1-9	
A	US-A-2 569 251 (F. NIEBURG) * Column 4, lines 1-53; figures 2-4 * -----	1-9	
A	US-A-2 646 314 (PEEPS) * Whole document * -----	1-9	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 05 B
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		26 July 91	GUASTAVINO L.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone		E : earlier patent document, but published on, or after the filing date	
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