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Gilmore

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[54] **ADHESIVE DISPENSING SYSTEM**

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[52] **U.S. Cl.** **239/290; 239/273; 239/280;**
239/300; 239/302; 239/328; 239/379; 222/105;
222/185.1; 285/148.23

[58] **Field of Search** **239/273, 280,**
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588; 222/105, 185.1, 330, 183; 285/148.23

[56] **References Cited**

U.S. PATENT DOCUMENTS

1,030,306	6/1912	Hull	285/148.23 X
2,154,363	4/1939	Seybold	.
2,831,610	4/1958	Dennie	.
3,052,417	9/1962	Daniel	.
3,081,911	3/1963	Scholle	.
3,096,225	7/1963	Carr et al.	.
3,243,084	3/1966	Stegner	.
3,554,256	1/1971	Anderson	.
3,895,742	7/1975	Wulbern	.
3,945,534	3/1976	Ady	.
4,020,975	5/1977	Stauffer	.

4,090,514	5/1978	Hinck et al.	.
4,375,864	3/1983	Savage	.
4,527,716	7/1985	Haas et al.	.
4,551,139	11/1985	Plaas et al.	.
4,603,793	8/1986	Stern	.
4,887,852	12/1989	Hancock	285/148.23 X
5,263,646	11/1993	McCauley	239/588
5,265,766	11/1993	Kurtzahn et al.	.
5,316,215	5/1994	Mitchell	.
5,318,198	6/1994	Micek et al.	.
5,458,379	10/1995	Hamada et al.	285/148.23 X
5,535,779	7/1996	Huang	.

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[57] **ABSTRACT**

A system for dispensing and applying an adhesive to a work piece is provided which includes a flexible tote elevated above an underlying surface to provide a gravity head for feeding the adhesive to a spray gun for admixture with compressed air so that the adhesive can be applied in a predetermined pattern. Additional features of the invention call for a fitting disposed in the adhesive conduit to reduce the flow path for the adhesive being dispensed, and a valve to vent the system of unwanted gas such that adhesive flow from the flexible tote is continuous, uniform and uninterrupted.

34 Claims, 6 Drawing Sheets

