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Diaz

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(54) **POWDER SPRAY APPARATUS**

5,107,756 * 4/1992 Diaz 454/53

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* cited by examiner

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(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(57) **ABSTRACT**

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A powder spray apparatus and method for operating it comprise a spray booth having a floor. A spray gun is associated with the spray for directing a spray of powder of a particular color toward a workpiece. Overspray is redirected by limiting exhaust air from the flowing into an air-entrained powder separation system. An inlet to the separation system includes a sump for capturing powder from the floor of the spray booth when the floor is cleaned during a color changeover. The powder deposited in the sump is recirculated to a powder reservoir for later reuse.

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(58) **Field of Search** 454/54, 53, 50, 454/51, 52; 55/294, 302; 118/326, DIG. 7

(56) **References Cited**

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12 Claims, 5 Drawing Sheets

