

Title (en)  
POWDER SPRAY APPARATUS FOR SPRAYING EXTERIOR CAN BOTTOMS

Title (de)  
VORRICHTUNG ZUR PULVERSPRÜHBESCHICHTUNG DER AUSSENSEITE DES BODENS EINER DOSE

Title (fr)  
APPAREIL DE PULVERISATION DE POUDRE SUR L'EXTERIEUR DE FOND DE CANETTE

Publication  
**EP 1137494 A1 20011004 (EN)**

Application  
**EP 99961821 A 19991124**

Priority  
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• US 20867898 A 19981210

Abstract (en)  
[origin: WO0033971A1] Apparatus for spraying powder onto an exterior surface of a can bottom (A) includes a supply of powder (14), a powder spray gun (12) that receives powder from the supply and produces a powder spray directed towards a can bottom, and a control device (40) that shapes the powder spray and collects overspray. A powder collection system (20) is used for recycling substantially all of the powder spray back to the powder supply, thereby increasing the production of fines. In a first embodiment, the control device is realized in the form of an airflow amplifier that draws a vacuum to produce a substantial air movement in the region of the can bottom. This air movement constrains the powder spray to flow within a relatively well-defined envelope. Powder overspray is collected by the amplifier and blown into a powder collection system. In a further embodiment, a deflector sleeve is provided about the gun nozzle to direct secondary powder fines into a well defined more homogenous spray pattern.

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IPC 8 full level  
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