

Title (en)

Electrostatic spray coating apparatus for applying two component mixture.

Title (de)

Elektrostatistischer Sprühapparat für die Beschichtung zum Auftragen einer zwei Komponentenmischung.

Title (fr)

Appareil de revêtement par pulvérisation électrostatique pour appliquer un mélange à deux composants.

Publication

EP 0387978 A2 19900919 (EN)

Application

EP 90300047 A 19900103

Priority

US 32257789 A 19890313

Abstract (en)

A spray coating apparatus (10) for applying a paint composed of a controlled mixture of two liquid components. A first gear pump (32) is disposed in a spray booth (30) and pumps the first component to an applicator (14). A second gear pump (36) in the spray booth (30) pumps the second component to the applicator (14). A manifold (44) is disposed between the two gear pumps (32, 36) and the applicator (14) for mixing the two paint components. A variable speed motor (16, 20) controls the rate of fluid pumped by each of the gear pumps (32, 36). Each motor (16, 20) includes an encoder (27, 29) sending feedback signals to an adjustor module (24) which compares the instantaneous speed of each motor (16, 20) with a reference speed, then adjusts the instantaneous speed of each motor (16, 20) to conform with the reference speeds thereby adjusting the ratio between the volumetric flow rates of the first and second components with respect to a reference ratio.

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IPC 8 full level

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CPC (source: EP)

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