

Title (en)  
ELECTROSTATIC SPRAY COATING APPARATUS FOR APPLYING TWO COMPONENT MIXTURE

Publication  
**EP 0387978 A3 19911002 (EN)**

Application  
**EP 90300047 A 19900103**

Priority  
US 32257789 A 19890313

Abstract (en)  
[origin: EP0387978A2] 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.

IPC 1-7  
**B05B 5/16**

IPC 8 full level  
**B05B 5/16** (2006.01); **B05B 7/26** (2006.01); **B05B 12/14** (2006.01); **B05D 1/04** (2006.01); **B05D 1/34** (2006.01)

CPC (source: EP)  
**B05B 5/16** (2013.01); **B05B 12/1418** (2013.01)

Citation (search report)

- US 4209258 A 19800624 - OAKES W PETER [US]
- US 294673 A 18840304
- US 4167151 A 19790911 - MURAOKA MAMORU, et al
- US 4019653 A 19770426 - SCHERER WILLIAM C, et al
- US 3147137 A 19640901 - GLASS JOHN Y, et al
- EP 0112638 A2 19840704 - ADHESIVE ENG CO [US]
- [A] US 209258 A 18781022
- [A] US 4614164 A 19860930 - KATO YOSHITO [JP], et al
- [A] FR 1262434 A 19610526 - METALLGESELLSCHAFT AG

Cited by  
EP0601344A1; EP1473090A3; GB2340774A; GB2340774B; US6929823B2

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0387978 A2 19900919; EP 0387978 A3 19911002**; AU 4435789 A 19900913; AU 608466 B2 19910328; CA 1320826 C 19930803; JP H03196861 A 19910828

DOCDB simple family (application)  
**EP 90300047 A 19900103**; AU 4435789 A 19891102; CA 614312 A 19890928; JP 3953990 A 19900220