

Title (en)
Apparatus for spraying hot melt adhesives.

Title (de)
Vorrichtung zum Sprühen von Schmelzklebern.

Title (fr)
Appareil de pulvérisation d'adhésifs à l'état fondu.

Publication
EP 0359943 A2 19900328 (EN)

Application
EP 89113745 A 19890725

Priority
US 24736688 A 19880921

Abstract (en)
An apparatus for spraying molten thermoplastic adhesive in which the outside of a solid stream of adhesive ejected from a nozzle is impacted by atomizing air to form adhesive droplets and the droplets are then directed by pattern-shaping air into a predetermined area of a substrate. The flow rate and velocity of the atomizing air and pattern-shaping air is independently controlled by separate regulating valves to permit variation of the size of the adhesive droplets formed and the width of the pattern of droplets deposited on a substrate. Control valves are provided to sequence the flow of adhesive discharged from the nozzle with the flow of atomizing and pattern-shaping air such that the flow of atomizing and pattern-shaping air is initiated before the flow of adhesive from the nozzle begins and after the flow of adhesive therefrom is terminated.

IPC 1-7
B05B 7/08; B05B 7/12

IPC 8 full level
B05B 1/26 (2006.01); **B05B 1/32** (2006.01); **B05B 7/06** (2006.01); **B05B 7/08** (2006.01); **B05B 7/12** (2006.01); **B05B 7/16** (2006.01); **B05D 7/24** (2006.01)

CPC (source: EP KR)
B05B 1/00 (2013.01 - KR); **B05B 7/0815** (2013.01 - EP); **B05B 7/12** (2013.01 - EP)

Cited by
US2016108511A1; EP0584973A3; EP0850694A1; CN102686319A; EP0978322A3; US5423935A; US5683036A; EP0682986A3; US5409733A; US8486030B2; WO2011069135A1; WO2011041148A3

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

DOCDB simple family (publication)
EP 0359943 A2 19900328; AU 4109489 A 19900329; BR 8904392 A 19900417; CA 1336373 C 19950725; JP H02135165 A 19900524; KR 900004410 A 19900412; NO 893140 D0 19890803; NO 893140 L 19900322

DOCDB simple family (application)
EP 89113745 A 19890725; AU 4109489 A 19890905; BR 8904392 A 19890831; CA 604264 A 19890628; JP 24625889 A 19890921; KR 890010627 A 19890727; NO 893140 A 19890803