

Title (en)

SPRAY HEAD FOR SPRAYING A THERMOPLASTIC MATERIAL, PARTICULARLY A FUSIBLE GLUE

Publication

EP 0225624 A3 19871202 (DE)

Application

EP 86117045 A 19861208

Priority

DE 3543469 A 19851209

Abstract (en)

[origin: EP0225624A2] 1. A spray head for spraying a thermoplastic hot-melt adhesive a) having at least one feed channel (14) for the heated hot-melt adhesive, b) having an outlet at the lower end of the feed channel (14), c) having a tapered feed channel (52) for a stream of gas, d) having a mixing chamber (54) into which both the feed channel (14) for the heated hot-melt adhesive and the gas feed channel (52) open, and e) having a nozzle opening (58, 80) connected to the mixing chamber (54) for the atomized hot-melt adhesive, characterised by the following features : f) outlets (86, 88, 90, 92) for gas jets directed onto the emerging, atomized hot-melt adhesive are arranged distributed symmetrically round the nozzle opening (58, 80) ; g) seen in plan view on the nozzle openings (58, 80), the gas jets extend from the outlet (86, 88, 90, 92) parallel to one another in pairs and past the nozzle opening (58, 80) ; and h) the streams of gas for the mixing chamber (54) on the one hand and the outlets (86, 88, 90, 92) on the other hand are adjustable independently of one another (60, 64).

IPC 1-7

B05B 7/04; B05B 7/08; B05B 7/16

IPC 8 full level

B05B 1/02 (2006.01); **B05B 7/04** (2006.01); **B05B 7/06** (2006.01); **B05B 7/08** (2006.01); **B05B 7/10** (2006.01); **B05B 7/16** (2006.01)

CPC (source: EP)

B05B 7/0475 (2013.01); **B05B 7/066** (2013.01); **B05B 7/0815** (2013.01); **B05B 7/10** (2013.01); **B05B 7/1606** (2013.01)

Citation (search report)

- [X] US 4263338 A 19810421 - RENTMEESTER KENNETH R, et al
- [X] FR 2342103 A1 19770923 - LIGNE BLANCHE [FR]
- [A] US 1876644 A 19320913 - DOWNS AUSTIN H
- [A] FR 2450124 A1 19800926 - AMIAUT JEAN
- [A] US 1540805 A 19250609 - REICHENBACH CARL L
- [A] GB 910510 A 19621114 - DEVILBISS CO
- [A] FR 1524334 A 19680510 - PROSYN
- PATENT ABSTRACTS OF JAPAN, Band 8, Nr. 193 (C-241)[1630], 5. September 1984, Zusammenfassung Nr. 59 087 061 (MITSUI ZOSEN K.K.) 19-05-1984

Cited by

US5989344A; CN105339095A; US2016108511A1; EP0554707A1; US5370734A; US5480664A; CN1047964C; EP1108476A4; EP3900839A1; US7506823B2; WO9719757A3; WO2021178470A1; WO9217279A1; WO2004056489A1

Designated contracting state (EPC)

AT BE CH ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0225624 A2 19870616; **EP 0225624 A3 19871202**; **EP 0225624 B1 19900314**; AT E50928 T1 19900315; DE 3543469 A1 19870611; DE 3543469 C2 19880225; JP S62191062 A 19870821

DOCDB simple family (application)

EP 86117045 A 19861208; AT 86117045 T 19861208; DE 3543469 A 19851209; JP 29063286 A 19861208