

Title (en)
Hot melt adhesive applicator and adhesive stick for feeding this applicator

Title (de)
Auftragsgerät für Heisserschmelzkleber und Kleberstift für dieses Gerät

Title (fr)
Applicateur de colle thermofusible et bâtonnet de colle conçu pour alimenter un tel applicateur

Publication
EP 0860212 B1 20020522 (FR)

Application
EP 98400400 A 19980219

Priority
FR 9702104 A 19970221

Abstract (en)
[origin: EP0860212A1] A hot melt adhesive applicator has an elongated chamber (3') with an inlet end (4') conforming to a stick (5') of the adhesive and an outlet end (6') fitted with a molten adhesive distribution nozzle (7'), the stick (5') being progressively pushed into the chamber where it is electrically heated. The novelty is that heating is effected by one or more heating elements (131) in the form of a resistive track (151) which is connected to an electricity source and which is formed on an electrically insulating surface of a substrate (141) to be in direct thermal contact with the adhesive mass within the chamber (3'). Preferably, the resistive track (151) is formed by screen printing of a metal or ruthenium and/or indium oxide resistive paste on a substrate (141) of alumina, enamelled sheet or a dielectric layer-covered stainless steel sheet, the track material preferably having a positive temperature coefficient of resistance and a resistivity of 1-1000 OMEGA /square for a 8-20 mu m thickness. Also claimed is a solid adhesive stick for feeding into the above applicator, the stick having a cylindrical shape with a polygonal cross-section conforming to that of the chamber inlet.

IPC 1-7
B05C 17/005; **H05B 3/42**

IPC 8 full level
B05C 5/04 (2006.01); **B05C 17/005** (2006.01); **H05B 3/42** (2006.01)

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B05C 17/00546 (2013.01 - EP US); **H05B 3/42** (2013.01 - EP US); **Y10T 156/1798** (2015.01 - EP US); **Y10T 156/18** (2015.01 - EP US)

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