

Title (en)  
Dispenser having angled nozzle configuration

Title (de)  
Abgabevorrichtung mit schräg angeordneten Düsen

Title (fr)  
Distributeur comprenant des buses inclinées

Publication  
**EP 0713729 A1 19960529 (EN)**

Application  
**EP 95115912 A 19951010**

Priority  
US 33167394 A 19941031

Abstract (en)  
A dispenser (10) having one or more dispensing nozzles (50) used for applying beads of thermoplastic liquid, such as hot melt adhesive, onto a moving substrate (58). The nozzle or nozzles (50) do not contact the substrate (58) and are oriented at an angle relative to the direction of substrate movement (64). A range of angles for the nozzle or nozzles (50) which has been found to be beneficial, for example, in terms of producing a cleaner, more uniform bead upon activation of the dispenser (10) and producing less cut-off drool or stringing, is from about 10 DEG to about 40 DEG relative to a plane which is perpendicular to the direction of substrate movement (64). An angle of 20 DEG has been found to be most beneficial under a wide range of operating pressures for thermoplastic hot melt adhesive. Modular alternative nozzle configurations are also disclosed for allowing the same dispenser body (10) to be oriented either horizontally or vertically while still maintaining the same advantageous nozzle angle relative to the substrate (58). <IMAGE>

IPC 1-7  
**B05B 15/06**

IPC 8 full level  
**B05D 1/26** (2006.01); **B05C 5/00** (2006.01); **B05C 5/02** (2006.01); **B05D 7/24** (2006.01)

CPC (source: EP)  
**B05C 5/0279** (2013.01); **B05C 5/0212** (2013.01); **B05C 5/0237** (2013.01)

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