

Title (en)  
SELF-SEALING INJECTION DEVICE FOR THERMOPLASTIC MATERIAL

Title (de)  
SELBSTDICHTENDE EINSPRITZVORRICHTUNG FÜR EINEN THERMOPLASTISCHEN KUNSTSTOFF

Title (fr)  
DISPOSITIF D'INJECTION AUTO-ETANCHEIFIE POUR UNE MATIERE THERMOPLASTIQUE

Publication  
**EP 1326740 A1 20030716 (FR)**

Application  
**EP 01980603 A 20011019**

Priority  
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• FR 0013451 A 20001020

Abstract (en)  
[origin: FR2815568A1] The injector, comprising a distributor (8) with a passage (11) and an injection nozzle (7) for delivering a liquid thermoplastic material into a mould cavity (2), has a sliding cut-out needle (21) and guides (36, 38) with an annular groove (43) between inner (41) and outer (42) peripheral faces. The groove is offset lengthwise relative to the distributor passage so that its temperature is reduced by the ambient air and the viscosity of the injected thermoplastic material inside it is raised to a level where it stops flowing and forms a seal.

IPC 1-7  
**B29C 45/28**

IPC 8 full level  
**B29C 45/20** (2006.01); **B29C 45/28** (2006.01); **B29C 45/78** (2006.01)

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