

Title (en)

INJECTION MOULDING DEVICE WITH INCREASED TIGHTNESS BETWEEN THE INJECTION NOZZLE AND MOULDING MATRIX

Title (de)

SPRITZGUSSVORRICHTUNG MIT ERHÖHTER DICHTZ WISCHEN DER EINSPRITZDÜSE UND DER GUSSMATRIX

Title (fr)

DISPOSITIF D'INJECTION-MOULAGE A ETANCHEITE RENFORCEE ENTRE BUSE D'INJECTION ET MATRICE DE MOULAGE

Publication

EP 1799423 A1 20070627 (FR)

Application

EP 05809095 A 20051013

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- FR 0410923 A 20041015

Abstract (en)

[origin: WO2006042942A1] The invention relates to a device for injecting a thermoplastic material in a liquid state into a moulding cavity. Close to the moulding cavity (4), a centering and thermal insulation ring (31), which is arranged between the outer peripheral surfaces of an injection nozzle (14) and the inner peripheral surfaces of the cavity (6) of a matrix (1) partially defining the mould cavity (4), is provided with two lips (49,50) in the direction of injection (2), one of which being internal and the other external, wherein at least the internal lip (50) is flush with an inner peripheral surface (8,9), which flares out towards the rear, of the cavity (6) of the matrix (1) in order to define a chamber in the matrix, said chamber (24) leading outwards via an injection opening (7), and a closed chamber (51). The amount of thermoplastic material which is lost with each colour change is reduced, tightness is increased vis à vis leakages and thermal insulation is improved between the nozzle (14) and the matrix (1).

IPC 8 full level

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