

Title (en)
METHOD AND ARRANGEMENT FOR SUPPORTING THE ENDS OF A RESISTANCE WIRE IN AN INJECTION MOULD DURING MANUFACTURING OF ELECTRICALLY HEAT-WELDABLE PLASTIC TUBE FITTINGS

Title (de)
VERFAHREN UND EINRICHTUNG ZUR STÜTZUNG DER ENDEN EINES WIDERSTANDSDRAHTS IN EINER SPRITZGUSSFORM WÄHREND DER HERSTELLUNG VON ELEKTRISCH SCHWEISSBAREN ROHRVERBINDUNGEN

Title (fr)
PROCEDE ET DISPOSITIF DE SUPPORT DES EXTREMITES D'UN FIL DE RESISTANCE DANS UN MOULE A INJECTION LORS DE LA FABRICATION DE RACCORDS TUBULAIRES EN PLASTIQUE THERMOSOUDES ELECTRIQUEMENT

Publication
EP 1011949 A1 20000628 (EN)

Application
EP 98942709 A 19980904

Priority
• FI 9800691 W 19980904
• FI 973607 A 19970905

Abstract (en)
[origin: WO9912720A1] The invention relates to a method and an arrangement for supporting the ends of a resistance wire in the manufacture of electrically heat-weldable plastic tube fittings in an injection mould. In the method, an electrically heated resistance wire (4) is wound about the core (1), the ends of the resistance wire (4) are connected to pegs (5, 6), pins (9, 10) are fitted into recesses (holes) (7, 8) provided in the core (1), and the pegs (5, 6) are supported on the core (1) by means of pins (9, 10) connected to them. In accordance with the invention, a guide bushing (11, 12) is disposed in contact with each pin (9, 10) and the connected peg (5, 6), each guide bushing (11, 12) is supported in a recess (13, 14) provided in the injection mould (2), an elastic actuator such as a spring (15, 16) is disposed to act on each guide bushing (11, 12) so that its holding power presses the guide bushing, the peg and the pin into position against the core (1), the injection moulding operation is started by introducing injection moulding compound around the core (1) in the moulding space (3) in a manner known per se, whereby, as the injection moulding compound reaches each pin (9, 10), the plastic pressure lifts the pin (9, 10), the peg (5, 6) and the guide bushing (11, 12) from the core (1) against the holding power of the actuator, such as a spring (15, 16), and after the injection moulding the core (1) is withdrawn from the mantle (2), the mantle (2) including the guide bushings (11, 12) is opened and the finished fitting is removed from the injection mould.

IPC 1-7
B29C 45/14; **B29D 23/00**; **F16L 47/02**

IPC 8 full level
B29C 45/14 (2006.01); **B29C 45/26** (2006.01); **B29D 23/00** (2006.01); **F16L 47/02** (2006.01)

CPC (source: EP KR)
B29C 45/14 (2013.01 - KR); **B29C 45/14073** (2013.01 - EP); **B29C 45/14549** (2013.01 - EP); **B29D 23/005** (2013.01 - EP); **B29C 65/342** (2013.01 - EP); **B29C 65/3468** (2013.01 - EP); **B29C 65/3476** (2013.01 - EP); **B29C 66/5221** (2013.01 - EP); **B29C 66/5229** (2013.01 - EP); **B29C 2045/14081** (2013.01 - EP)

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)
WO 9912720 A1 19990318; AU 9074198 A 19990329; BR 9812180 A 20000718; CA 2302208 A1 19990318; CN 1291131 A 20010411; EA 001743 B1 20010827; EA 200000199 A1 20001030; EP 1011949 A1 20000628; FI 103023 B1 19990415; FI 103023 B 19990415; FI 973607 A0 19970905; FI 973607 A 19990306; HU P0004237 A2 20010428; HU P0004237 A3 20020128; IL 134849 A0 20010520; JP 2001515804 A 20010925; KR 20010023300 A 20010326; NO 20001086 D0 20000302; NO 20001086 L 20000503; TR 200001578 T2 20010321

DOCDB simple family (application)
FI 9800691 W 19980904; AU 9074198 A 19980904; BR 9812180 A 19980904; CA 2302208 A 19980904; CN 98813939 A 19980904; EA 200000199 A 19980904; EP 98942709 A 19980904; FI 973607 A 19970905; HU P0004237 A 19980904; IL 13484998 A 19980904; JP 2000510587 A 19980904; KR 20007001934 A 20000225; NO 20001086 A 20000302; TR 200001578 T 19980904