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(54) Title: **THICK FILM HEATER FOR INJECTION MOLD RUNNER NOZZLE**

(57) Abstract

Hot runner injection molding systems with externally heated injection runner nozzles for such systems. The heater is preferably a tubular heater with the resistive element applied to the exterior surface by fine film printing. The heater is adapted to externally heat a hot runner injection mold runner nozzle.

