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(54) Title: CAST METAL INJECTION MOLDING CAVITIES AND PROCESS FOR PRODUCING THE SAME

(57) Abstract

The present invention relates to an apparatus for molding plastic parts which comprises a cavity insert (50) and a core insert (40) wherein each insert has an open area on the shell or back side thereof. A means (146, 196) for circulating fluid through each chamber cools the inserts. In one preferred embodiment, the cavity and core inserts are made using a ceramic formulation comprising generally uniform size aggregate materials and carbon fibers. In certain embodiments, the apparatus further comprises pressure bearing means (220) for absorbing molding pressure during operation of the molding apparatus.

