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(54) Title: COMPOSITE MATERIAL WITH ENHANCED THERMAL CONDUCTIVITY AND METHOD FOR FABRICATION THEREOF

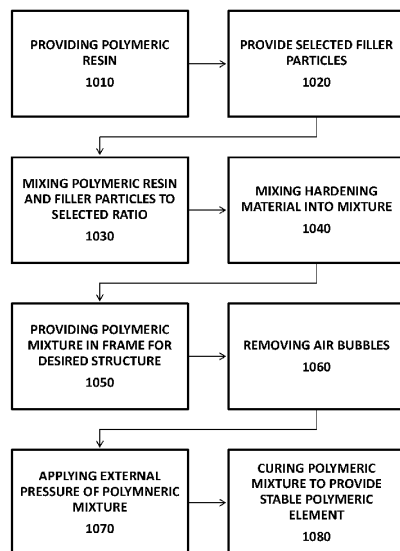


FIG. 1

(57) Abstract: A composite member and a method for manufacturing polymeric material article are presented. The method comprising providing polymeric resin, providing selected amount of filler material, mixing filler material into the polymeric matrix to provide a polymeric filler mixture, compressing said polymeric filler mixture under pressure in the range of up to 350 bar, and curing said polymeric filler mixture to provide stable polymeric material. The resulting composite member is typically characterizes by having average filler to filler particle gap below 20 nm and substantially does not have air voids therein.

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