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(54) Title: SYSTEM AND METHODOLOGY COMPRISING COMPOSITE STATOR FOR LOW FLOW ELECTRIC SUBMERSIBLE PROGRESSIVE CAVITY PUMP

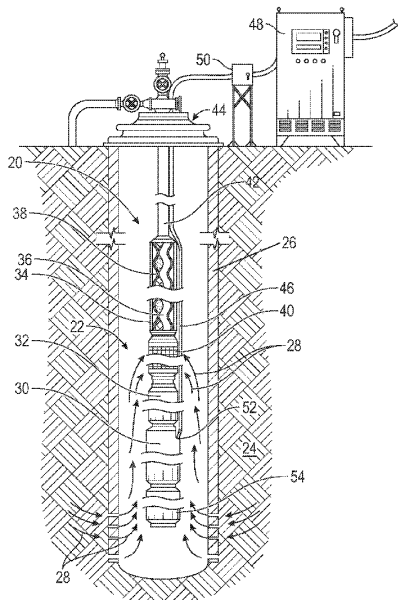


FIG. 1

(57) Abstract: A technique facilitates efficient well production in relatively low volume applications, e.g. applications after well pressure and volume taper off for a given well. According to an embodiment, use of an electric submersible progressive cavity pump is enabled in harsh, high temperature downhole environments. A pump stator facilitates long-term use in such harsh environments by providing a composite structure having an outer housing and a thermoset resin layer located within the outer housing and secured to the outer housing. The thermoset resin layer is constructed with an internal surface having an internal thread design. Additionally, an elastomeric layer is located within the thermoset resin layer and has a shape which follows the internal thread. In this manner, the elastomeric layer is able to provide an interior surface generally matching the shape of the internal thread of the thermoset resin layer and arranged for interaction with a corresponding pump rotor.

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