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(54) Title: PROGRESSIVE CAVITY PUMPS USING COMPOSITE MATERIALS**(57) Abstract**

The stator, rotor and/or flex shaft of a progressive cavity pump is made up of composite materials, e.g., fiberglass and resin, in a variety of combinations with and without bonded resilient elastomers. The composites are formulated to provide resiliency and non-resiliency where needed. The flex shaft between the rotary power source and the rotor is made of composite materials and designed to absorb the orbital and gyrational movement of the rotor.

