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(54) **Title**: A DOWNHOLE TOOL WITH SHAPE MEMORY ALLOY ACTUATOR

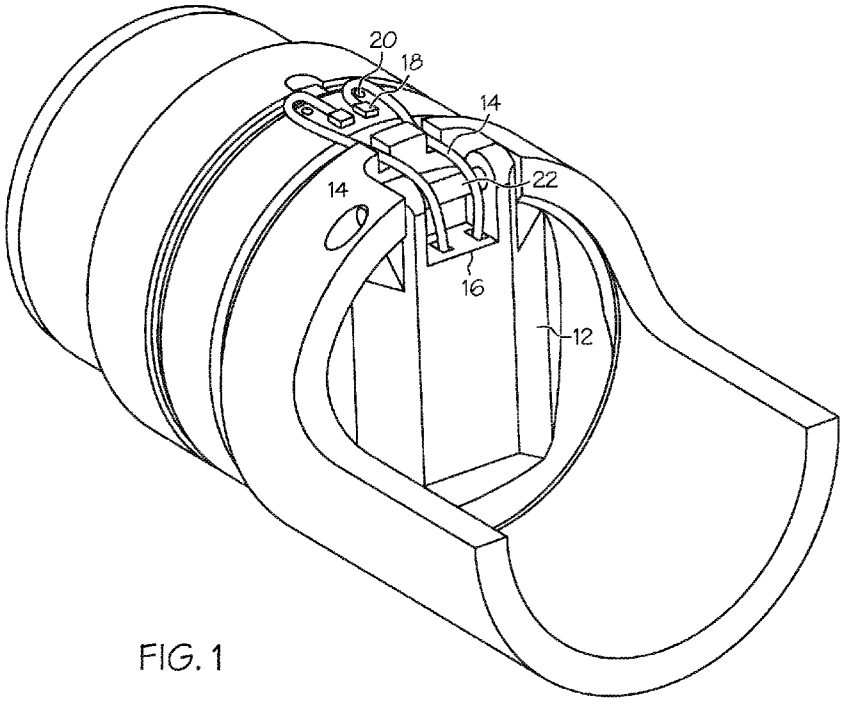


FIG. 1

(57) **Abstract**: A downhole tool actuator includes a shape memory material; a pulley system engaged with the shape memory material and fixed in position; and a downhole tool component operatively connected to the shape memory material and moveable in response to a phase change of the shape memory material from a martensitic phase to an austenitic phase and method.

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