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(54) Title: SURGICAL CLAMPING DEVICES AND TOOLS FOR USE THEREWITH

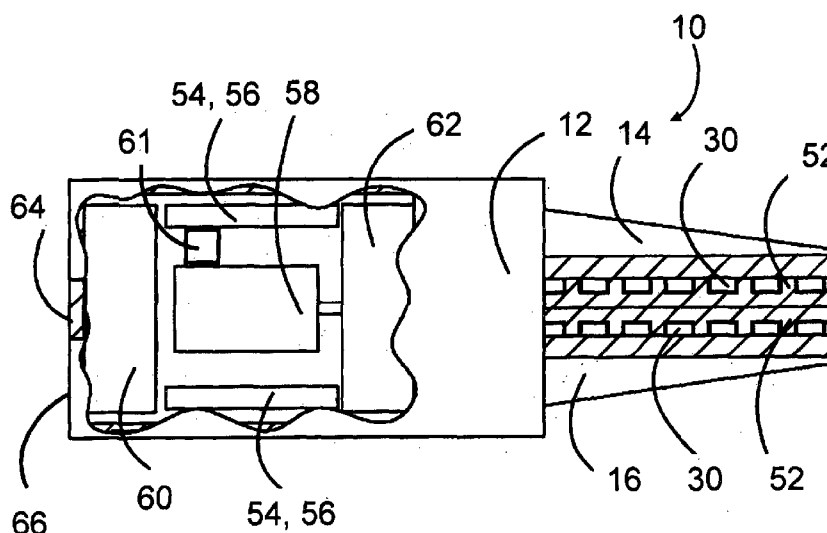


FIG 6B

(57) Abstract: Embodiments of the present invention relate to surgical clamping devices and applicators for use therewith. Embodiments of the surgical clamping device comprise a body and a pair of clamping members extending from the body. An electronic controller housed within the body is coupled to control movement of at least one of the clamping members to control a pressure exerted by the clamping members on a blood vessel clamped therebetween. At least one blood flow sensor is mounted to at least one of the clamping members to detect blood flow in the blood vessel. The clamping members are locked in place when blood flow has been occluded or constricted to the desired extent.