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(54) **SURGICAL INSTRUMENT HAVING AN ARTICULATING END EFFECTOR**

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(57) **ABSTRACT**

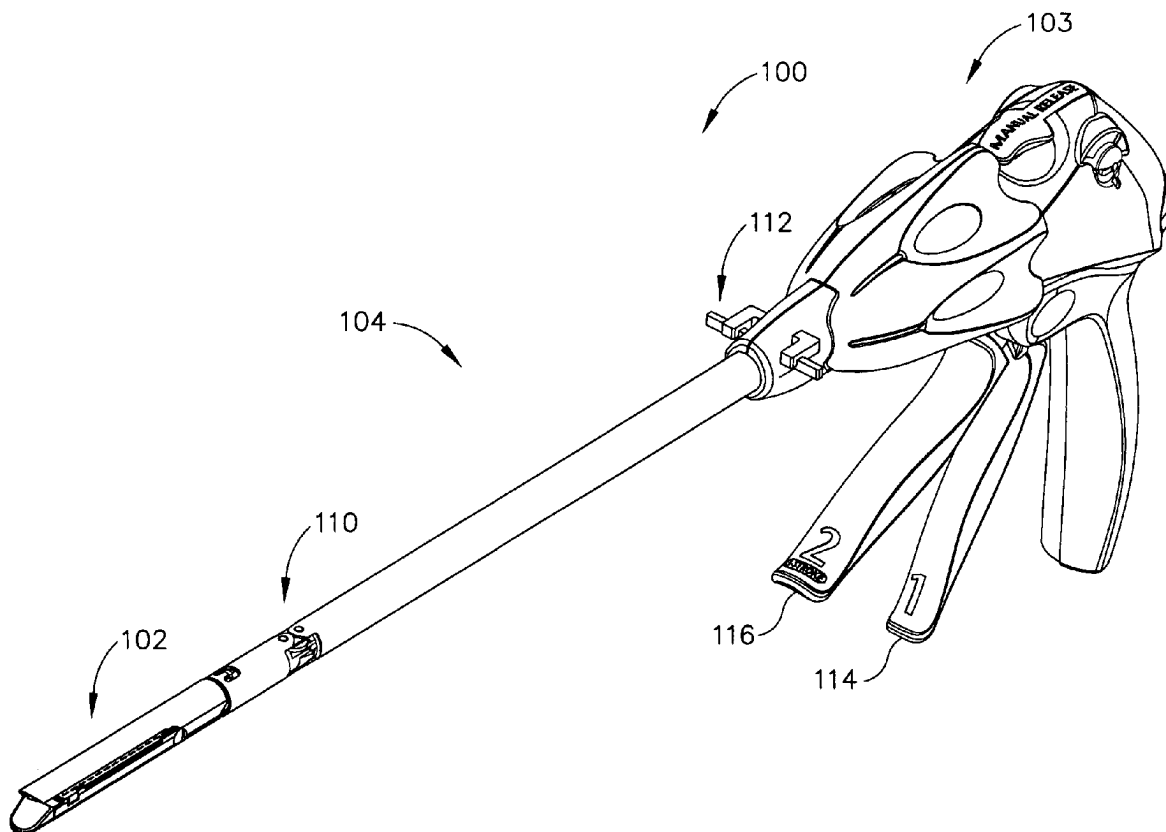
An articulating surgical instrument is shown, which comprises a shaft and an end effector. The shaft has a longitudinal axis, and the end effector is operationally coupled, preferably mechanically coupled, to the shaft at an articulation pivot. The instrument also comprises a first band, and in some embodiments, a second band, each operationally connected to the end effector and extending through at least a portion of the shaft. An articulation control applies a force in a direction substantially transverse to the longitudinal axis, wherein the force, when applied in one direction, is translated through the first band to the end effector to effect rotation of the end effector relative to the shaft about the articulation pivot in a first rotational direction, and when the force is applied in the opposite direction, is translated through the second band to the end effector to effect rotation of the end effector relative to the shaft about the articulation pivot in a second rotational direction.

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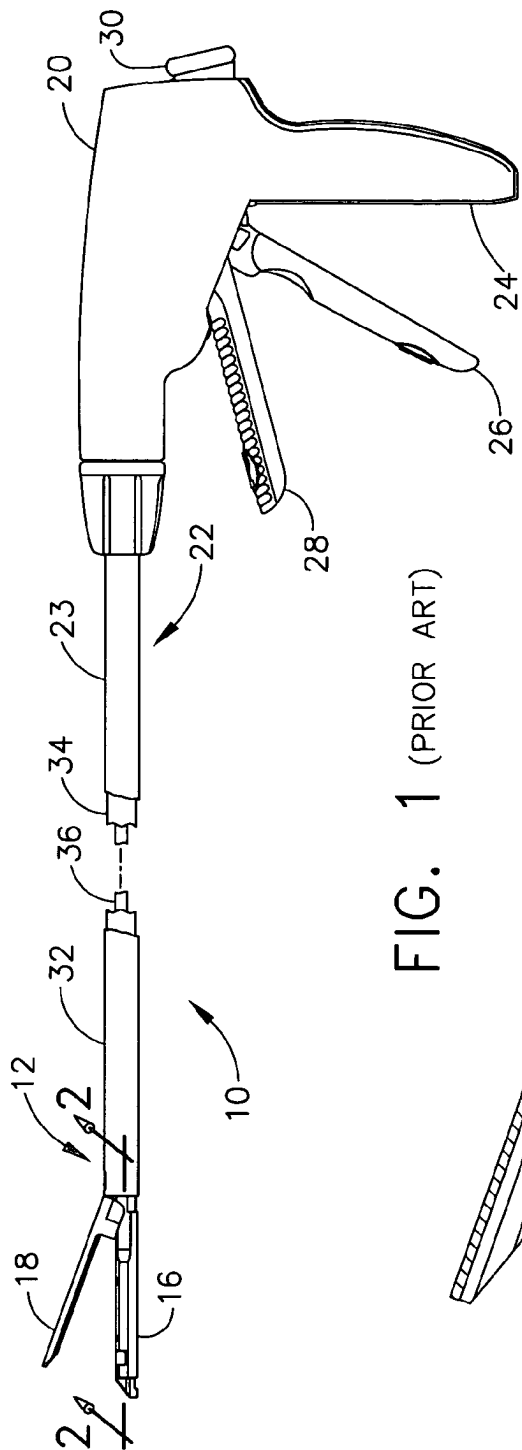


FIG. 1 (PRIOR ART)

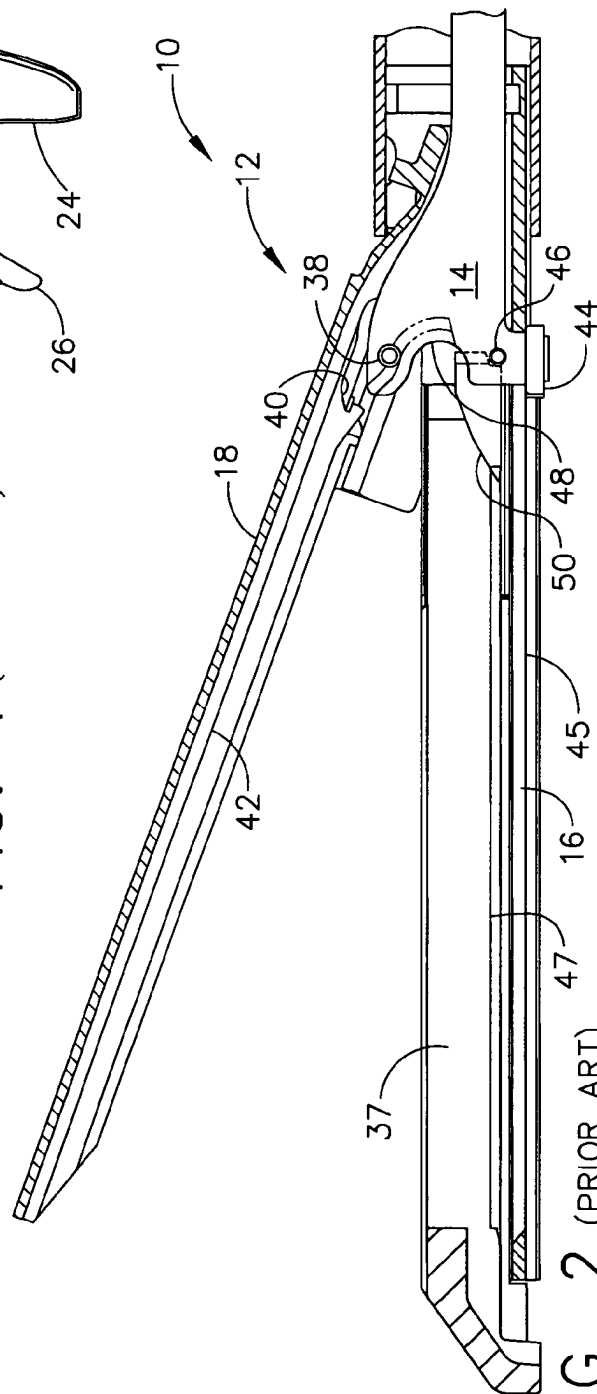


FIG. 2 (PRIOR ART)

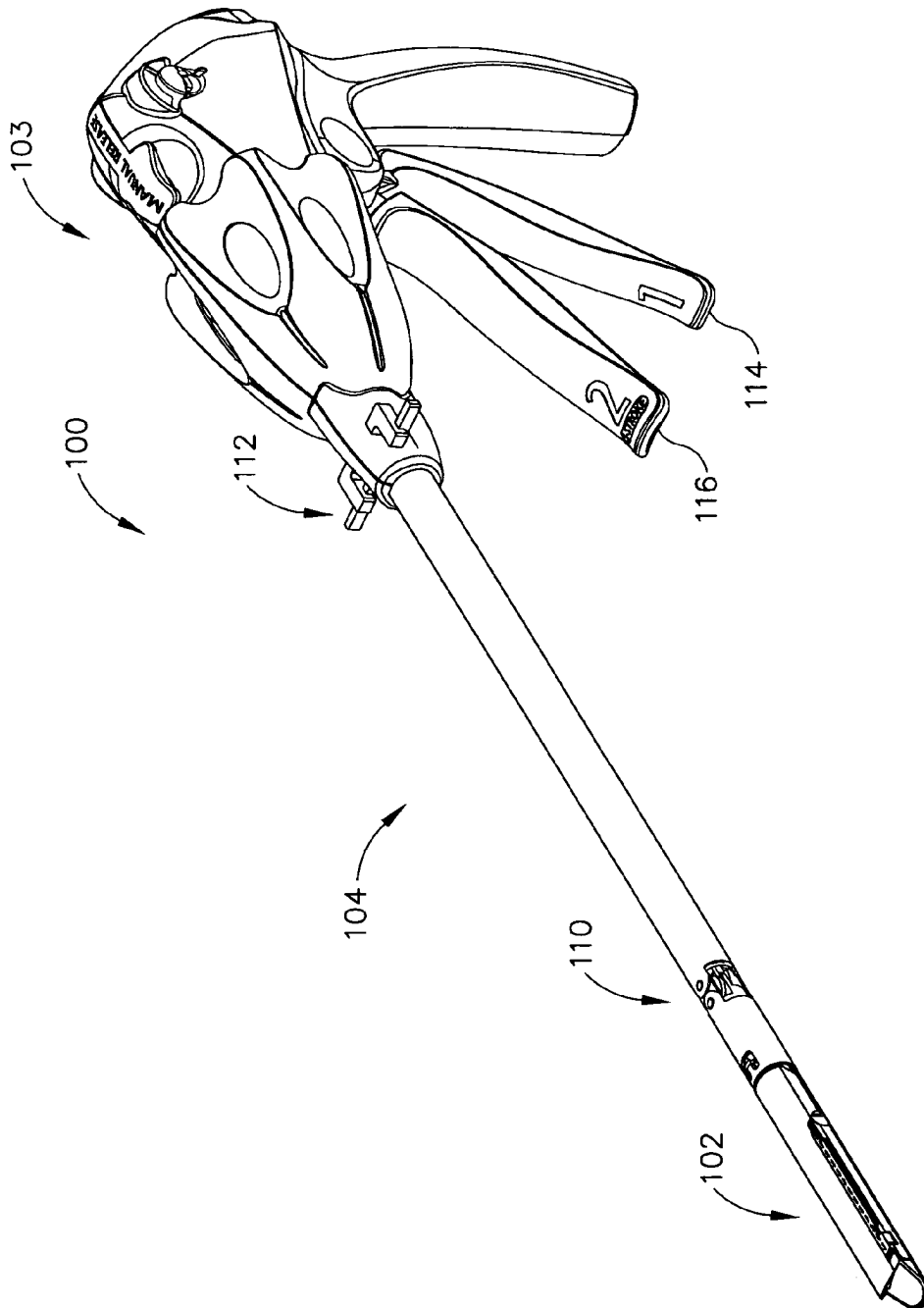


FIG. 3

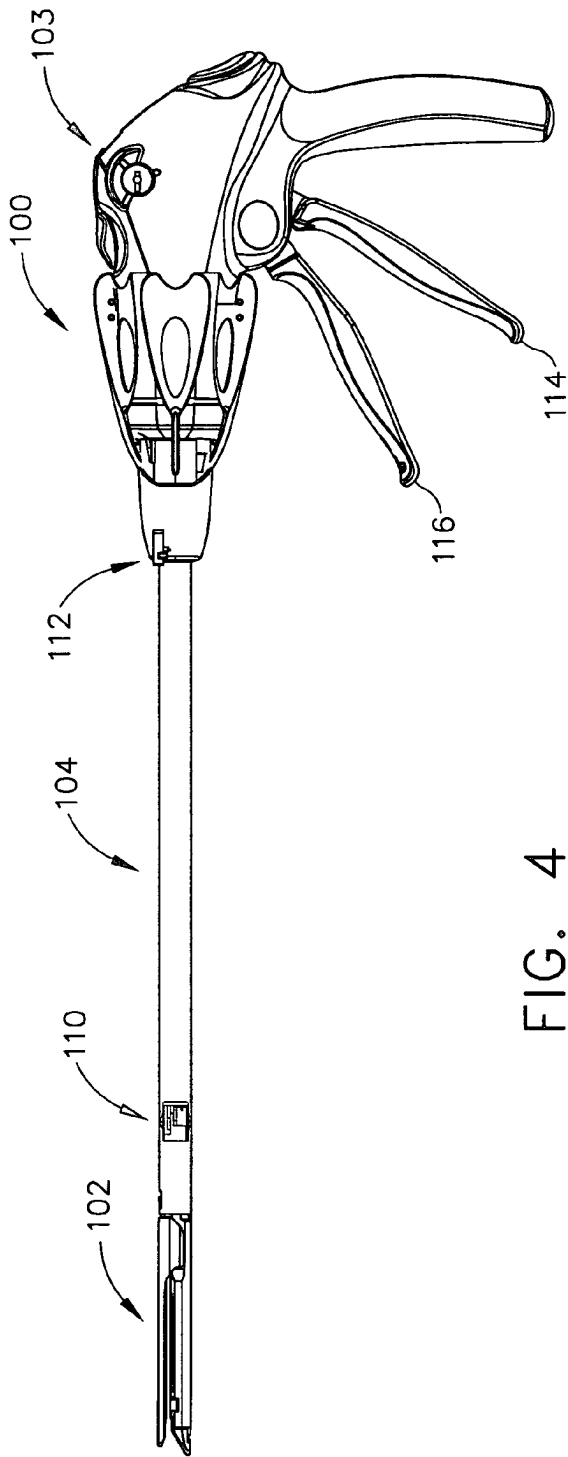


FIG. 4

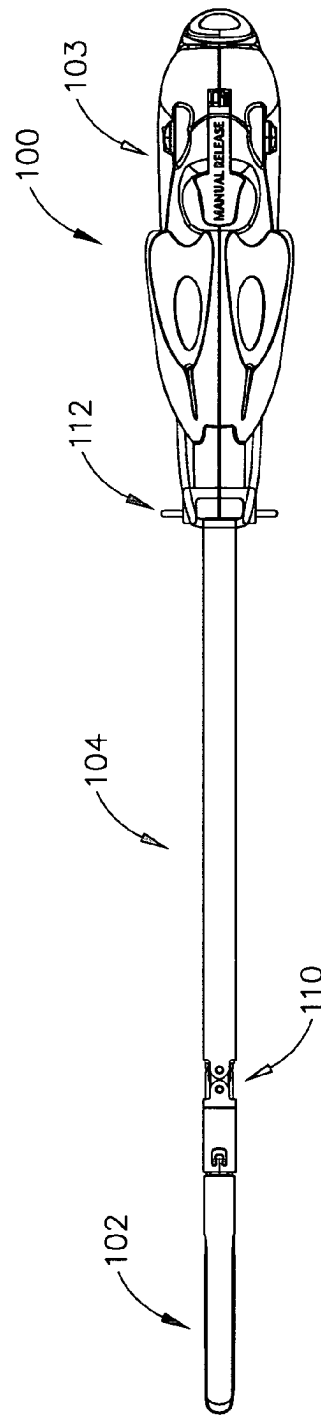


FIG. 5

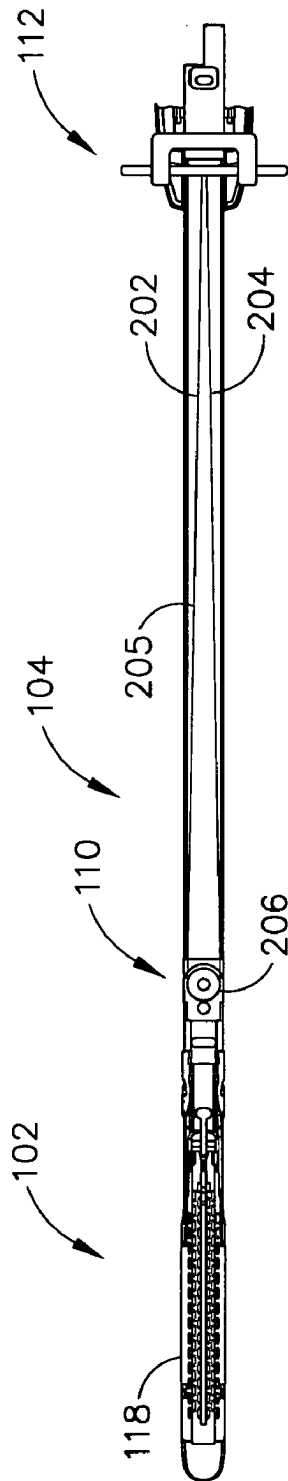


FIG. 6

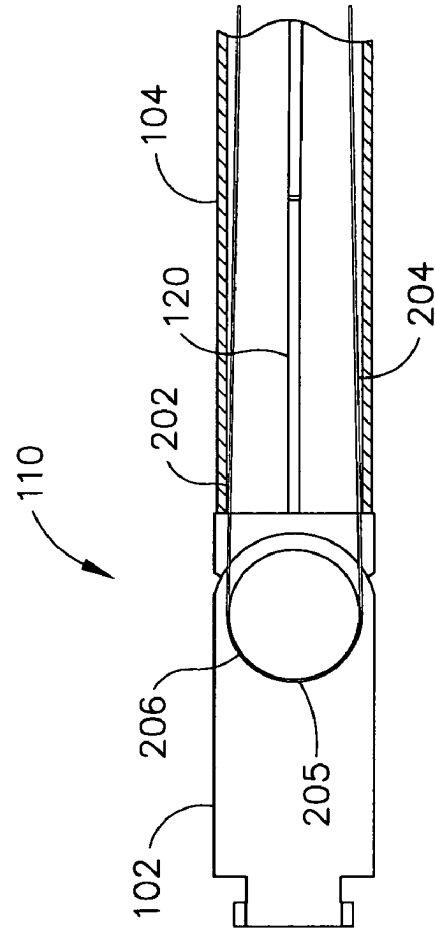


FIG. 7

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