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(54) **SURGICAL INSTRUMENTS INCLUDING MEMS DEVICES**

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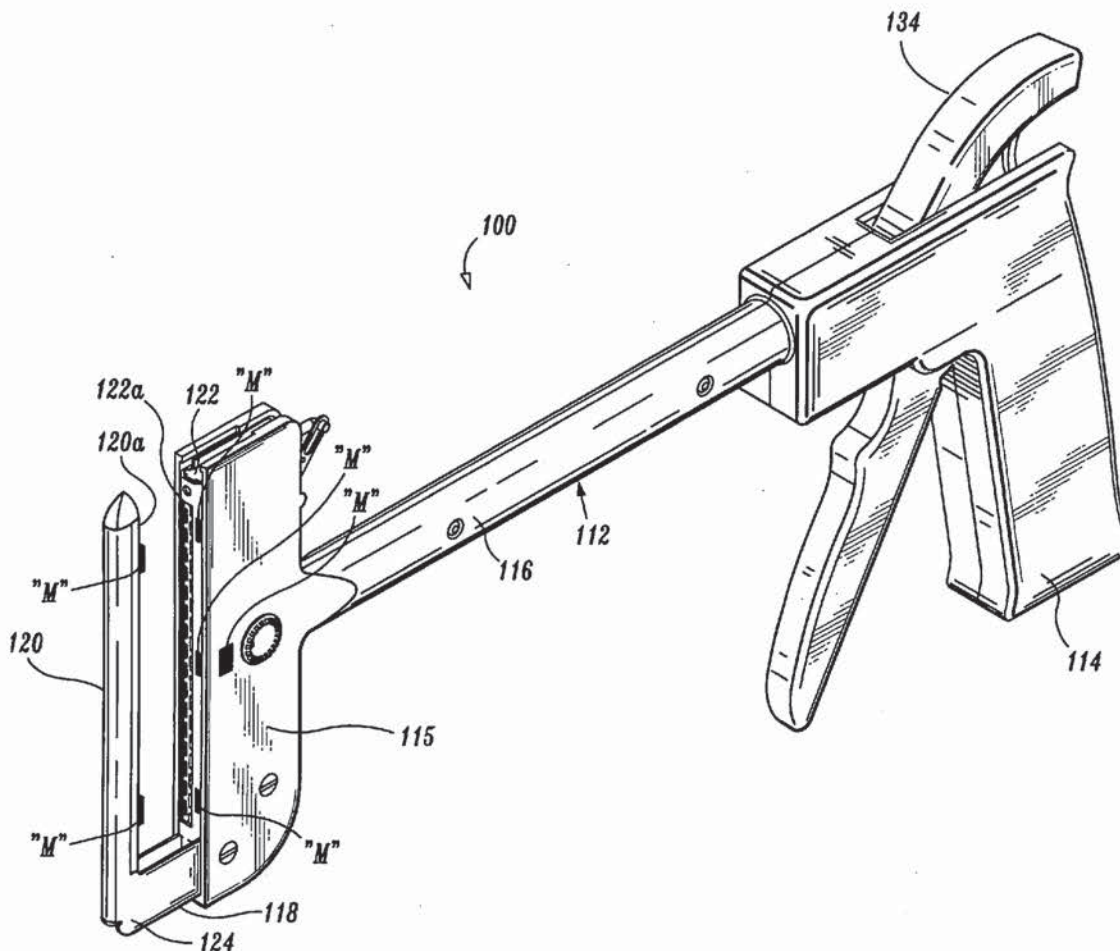
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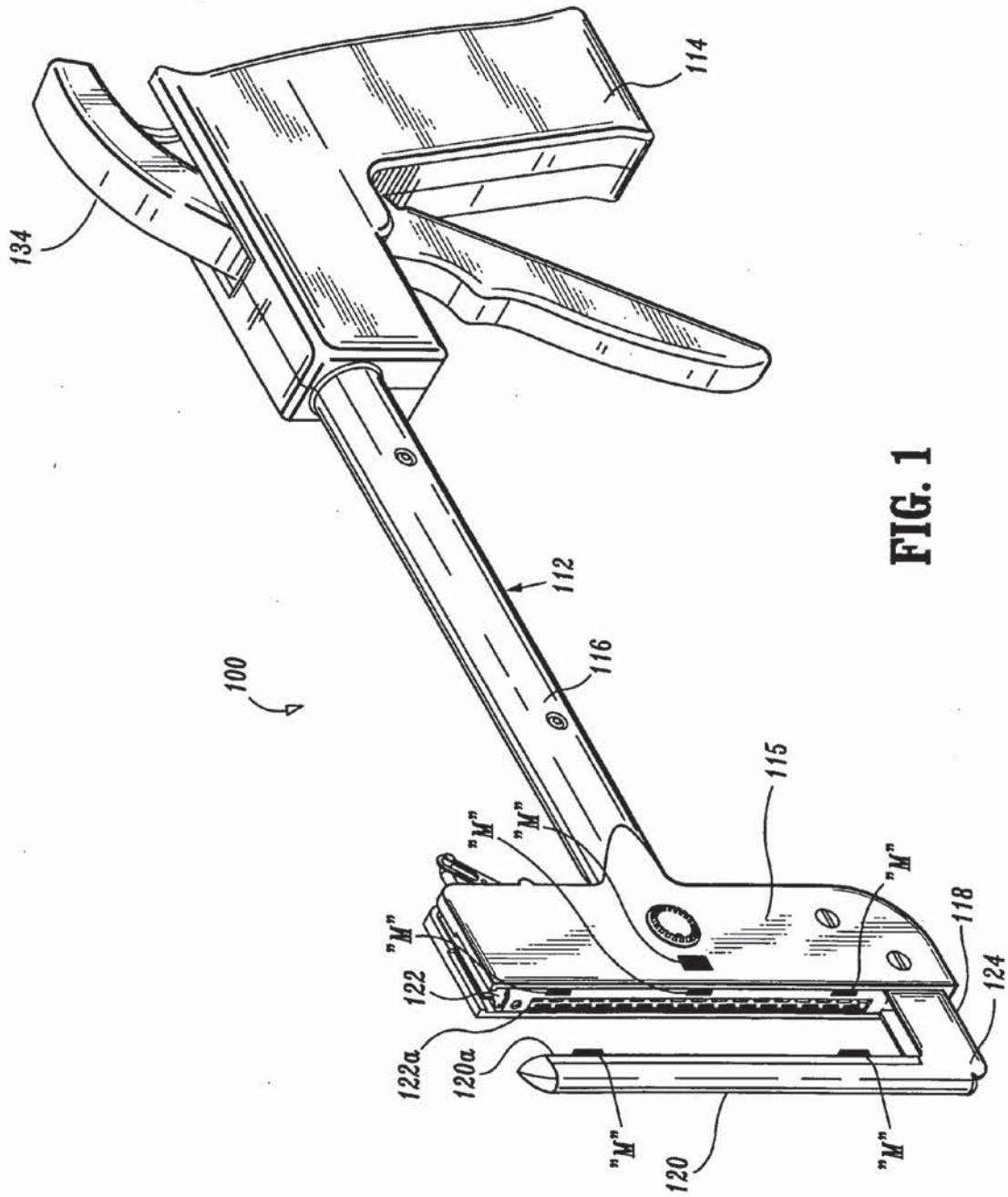
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(57) **ABSTRACT**

Surgical instruments are disclosed that are couplable to or have an end effector or a disposable loading unit with an end effector, and at least one micro-electromechanical system (MEMS) device operatively connected to the surgical instrument for at least one of sensing a condition, measuring a parameter and controlling the condition and/or parameter.

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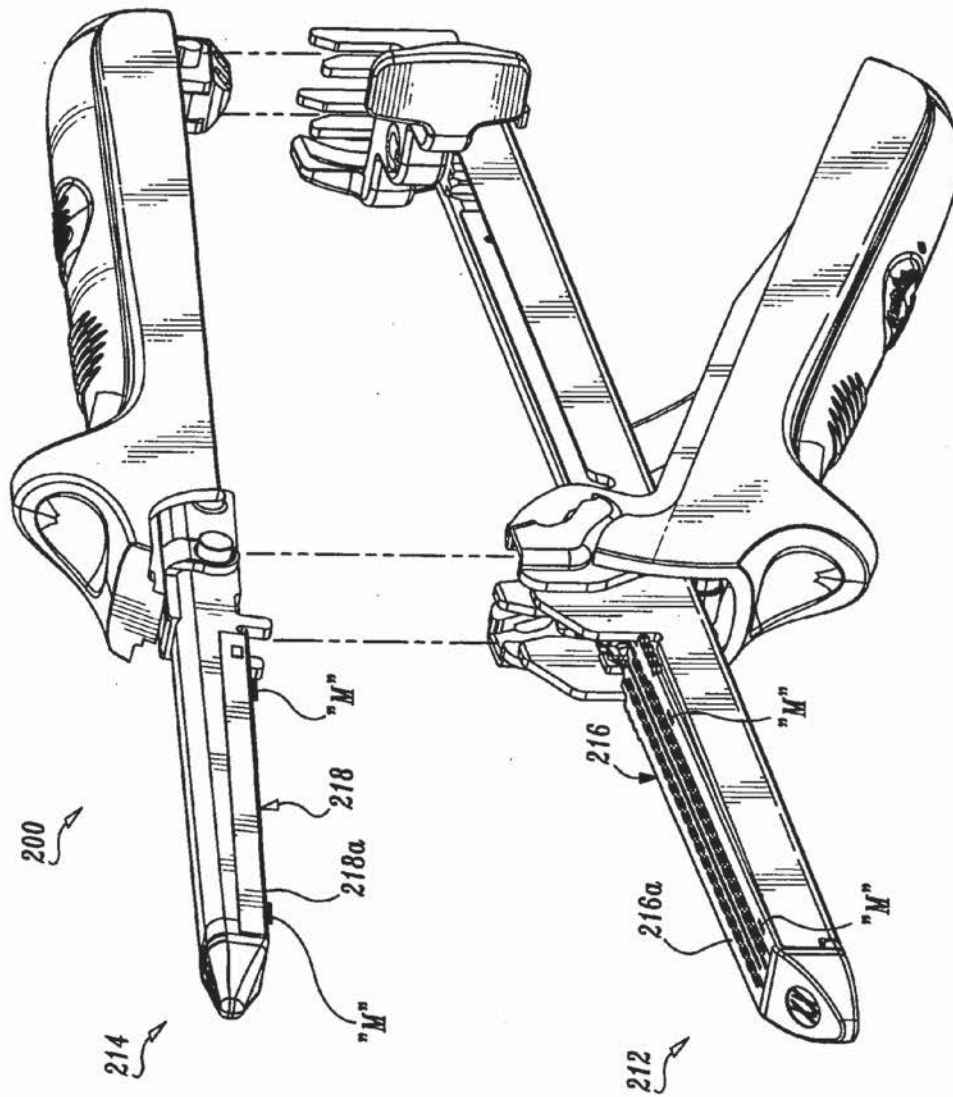
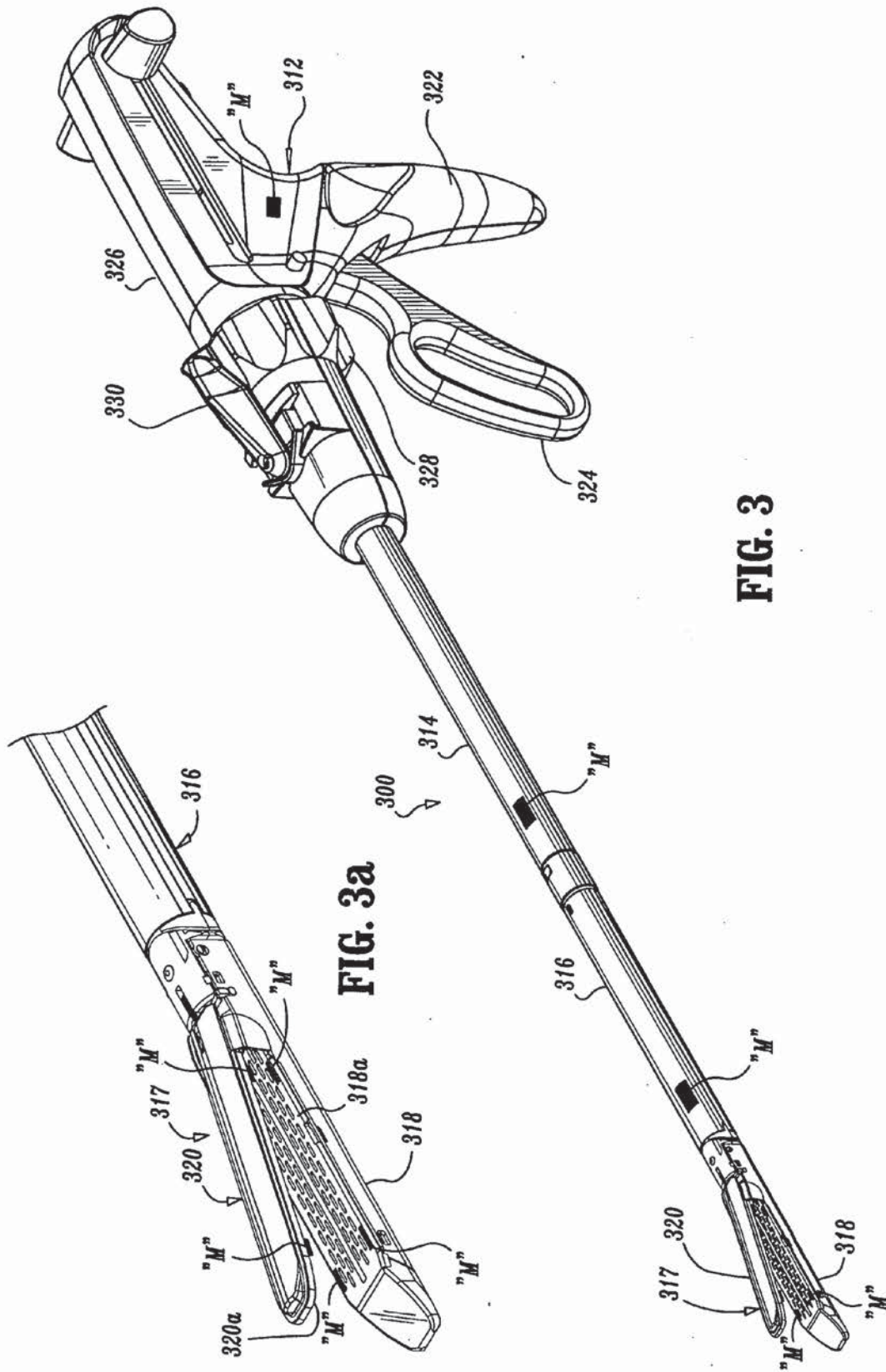


FIG. 2



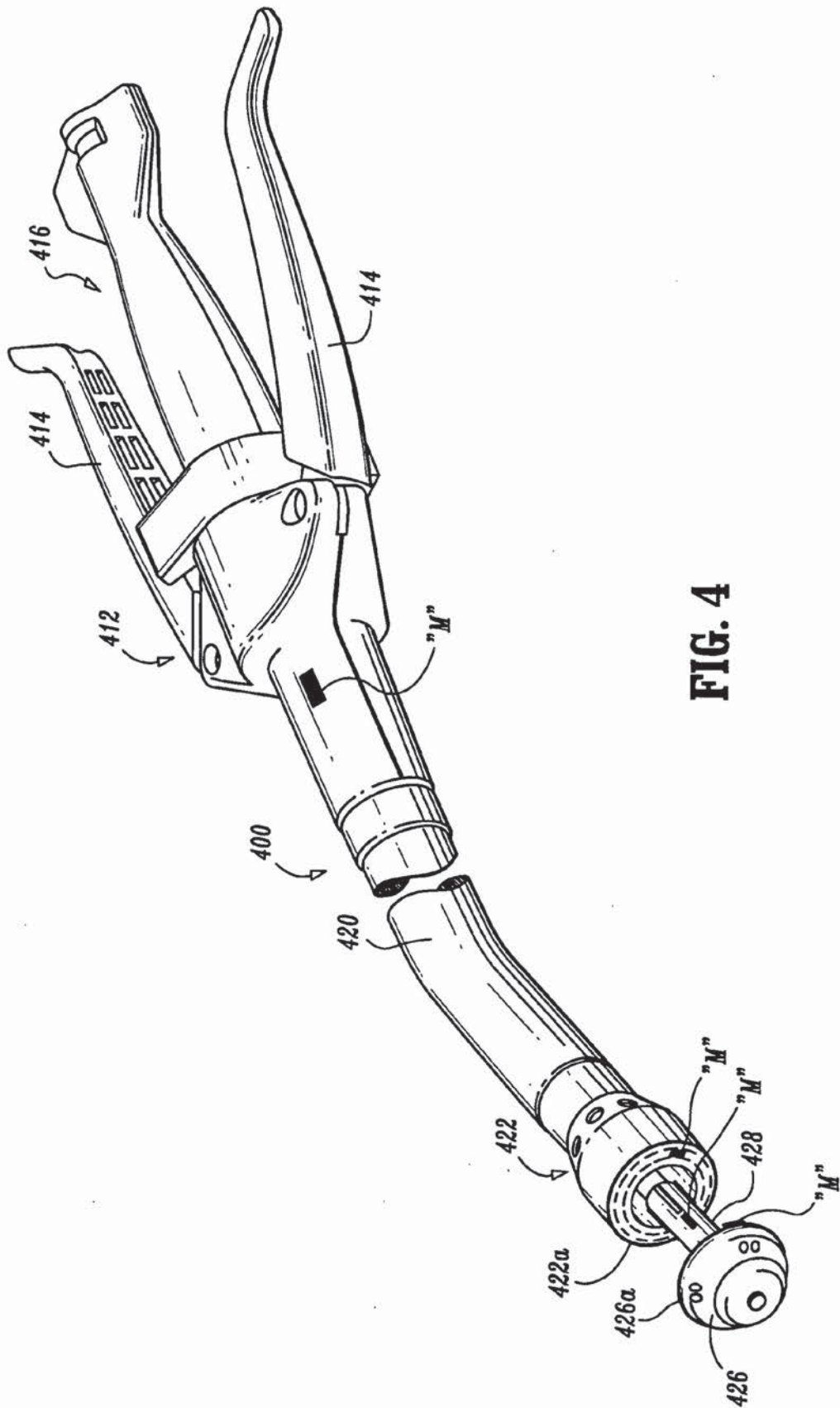


FIG. 4

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