



US008186555B2

(12) **United States Patent**
Shelton, IV et al.

(10) **Patent No.:** **US 8,186,555 B2**
(45) **Date of Patent:** **May 29, 2012**

(54) **MOTOR-DRIVEN SURGICAL CUTTING AND FASTENING INSTRUMENT WITH MECHANICAL CLOSURE SYSTEM**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1231 days.

(21) Appl. No.: **11/344,024**

(22) Filed: **Jan. 31, 2006**

(65) **Prior Publication Data**
US 2007/0175953 A1 Aug. 2, 2007

(51) **Int. Cl.**
A61B 17/02 (2006.01)
(52) **U.S. Cl.** **227/176.1; 227/19; 227/175.1**
(58) **Field of Classification Search** **227/175.1, 227/176.1, 19, 180.1; 606/1, 51, 52, 139, 606/142, 205, 219**
See application file for complete search history.

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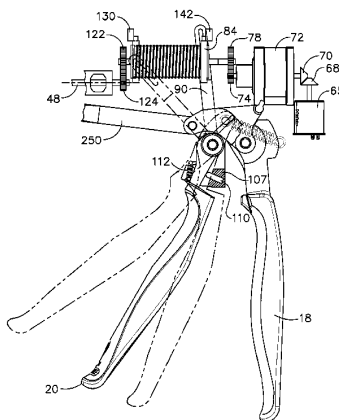
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(57) **ABSTRACT**

A surgical cutting and fastening instrument is disclosed. According to various embodiments, the instrument includes an end effector comprising an elongate channel, a clamping member pivotably connected to the channel, and a moveable cutting instrument for traversing the channel to cut an object clamped in the end effector by the clamping member when the clamping member is in a clamped position. The instrument may also comprise a main drive shaft assembly for actuating the cutting instrument in the end effector, a gear drive train connected to the main drive shaft assembly, and a motor for actuating the gear drive train. The instrument may also include a closure trigger and a firing trigger, separate from the closure trigger, for actuating the motor when the firing trigger is retracted. Also, the instrument may comprise a mechanical closure system connected to the closure trigger and to the clamping member for causing the clamping member to pivot to the clamped position when the closure trigger is retracted.

22 Claims, 39 Drawing Sheets



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