



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.

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U.S. Appl. No. 11/807,693, filed May 30, 2007.

(Continued)

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

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

(65) **Prior Publication Data**

US 2007/0175953 A1 Aug. 2, 2007

Primary Examiner — Rinaldi Rada
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(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.

(57) **ABSTRACT**

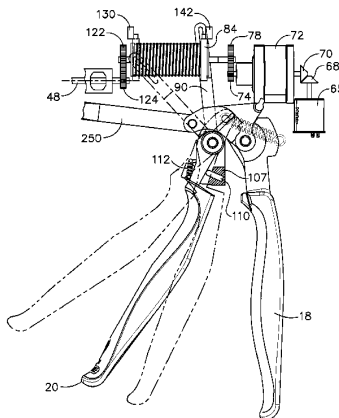
A surgical cutting and fastening instrument is disclosed. According to various embodiments, the instrument includes an end effector comprising an elongate channel, a clamping member pivotably connected to the channel, and a moveable cutting instrument for traversing the channel to cut an object clamped 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.

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22 Claims, 39 Drawing Sheets



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