CLAIMS

What is claimed is:

1. A suture clip applier for applying a suture around a tubular tissue adjacent to an open lumen, the suture clip applier comprising:

an elongated body comprising a tissue clinching mechanism at one end of the body, the tissue clinching mechanism comprising two arms that are movable between open and clinched positions;

a plurality of deformable suture clips mounted along a longitudinal length of the elongated body, wherein each suture clip is configured to be detachably positioned within an interior of the two arms and to be deformed between open and clinched positions in response to the two arms being moved between the open and clinched positions; and

a length of suture comprising a pre-formed adjustable fastening and a loop extending from the pre-formed adjustable fastening, the loop extending between the two arms.

2. The suture clip applier according to claim 1 further comprising:

a biasing element configured to longitudinally advance each deformable suture clip toward the tissue clinching mechanism.

3. The suture clip applier according to claim 2, wherein the biasing element comprises one or more springs.

4. The suture clip applier according to claim 1 wherein the two arms are hinged to the elongated body.

5. The suture clip applier according to claim 1,wherein the plurality of deformable suture clips include between 4-20 deformable suture clips mounted along the longitudinal length of the elongated body.

6. The suture clip applier according to claim 2, wherein the biasing element is configured to automatically advance each deformable suture clip toward the tissue clamping mechanism in response to a deformable suture clip being released from the clinching mechanism.

7. A surgical device for placing a suture around a bowel or other tubular tissue, the surgical device comprising:

a first arm and a second arm each having a longitudinal length with opposite proximal and distal end portions, at least one of said first arm and said second arm being movable between an open position and a clamped position,

wherein the surgical device includes a suturing mechanism comprising:

a first row of suture staples positioned along the longitudinal length in said first arm, and a second row of suture staples positioned along the longitudinal length in said second arm; and

a length of suture comprising first and second end regions coupled together by a pre-formed adjustable fastening, a first threaded region of the suture extending through the first row of suture staples, and a second threaded region of the suture extending through the second row of suture staples.

8. The surgical device according to claim 7, wherein the length of suture is formed into a first bend between a first unthreaded region and a first threaded region, and a second bend between a second threaded region and a second unthreaded region, and

wherein when the suture is detached from the surgical device, the suture is biased to become unbent at the first and second bends such that the suture forms a loop extending from the pre-formed adjustable fastening.

9. The surgical device according to claim 8, wherein the first threaded region and the first unthreaded region of the suture are detachably coupled to the first arm, the second threaded region and the second unthreaded region of the suture are detachably coupled to the second arm, and a first end portion and a second end portion of the suture and extend away from the first and second arms.

10. The surgical device according to claim 7 further comprising:

a suturing mechanism having a pushing mechanism configured to push the suture staples out of the interior portion when the suturing mechanism is actuated.

11. The surgical device according to claim 7, wherein the surgical device further comprises a cutting mechanism having a groove extending along the longitudinal length of the first or second

arm, and the cutting element comprises a knife blade movably disposed in the groove and configured to move along said longitudinal length.

12. The surgical device according to claim 7, wherein the surgical device further comprises a stapling mechanism having staples positioned along the longitudinal length of the first arm or the second arm, and an anvil positioned along the longitudinal length of the other of the first arm or the second arm.

13. The surgical device according to claim 12, wherein the cutting mechanism is positioned along the longitudinal length between the suturing mechanism and the stapling mechanism.

14. The surgical device according to claim 13, wherein the stapling mechanism, the suturing mechanism and the cutting mechanism are configured to be actuated simultaneously or substantially simultaneously.