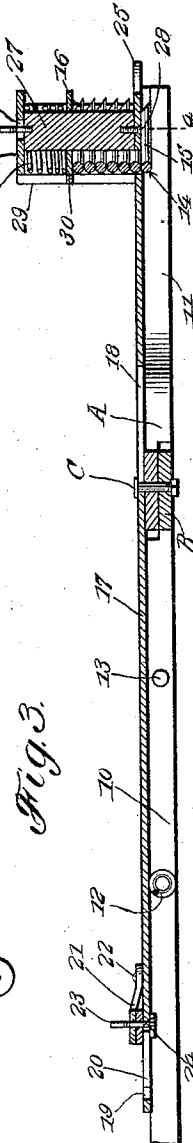
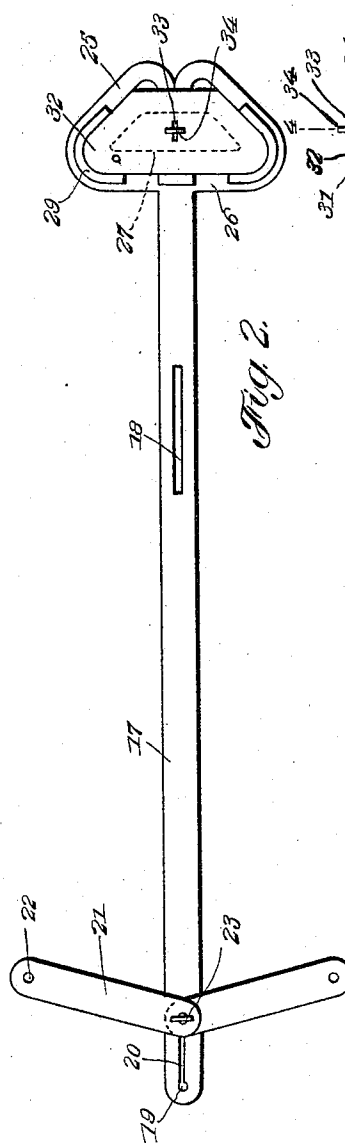
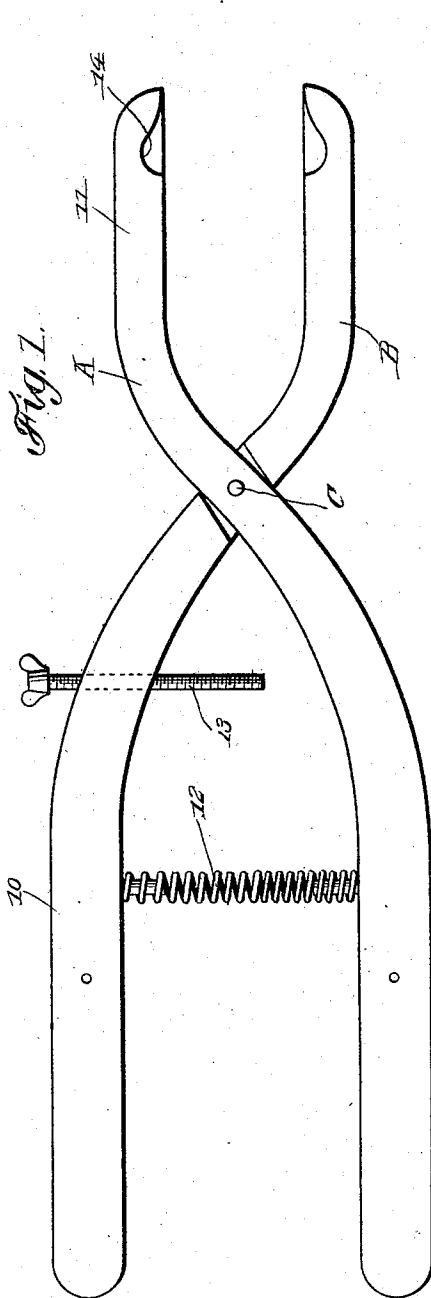


1,183,703.



Witnesses

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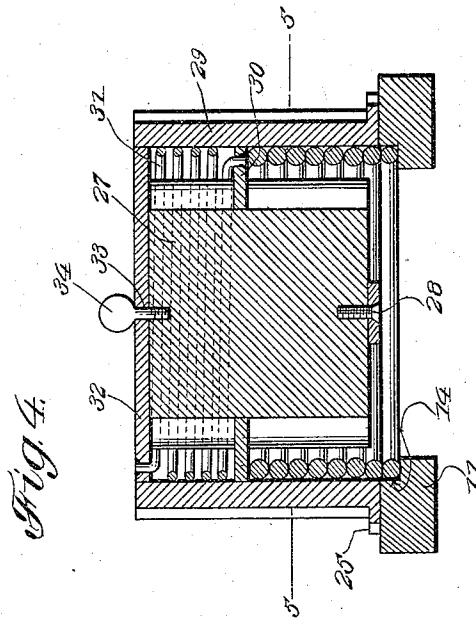
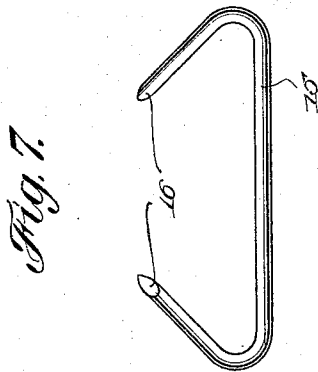
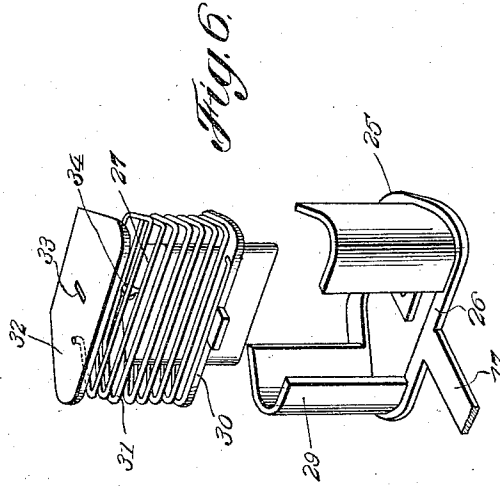
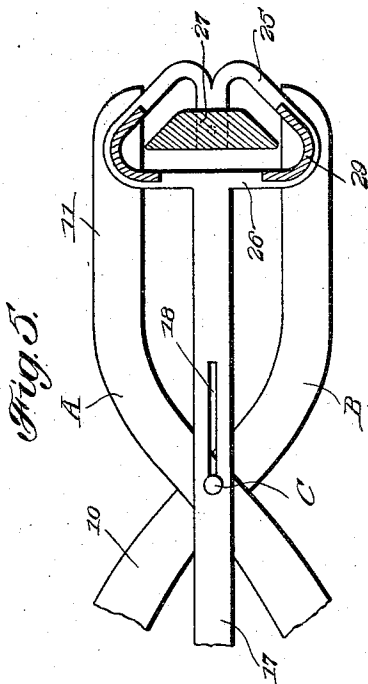
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HOG RINGING PLIERS.
APPLICATION FILED JUNE 24, 1913.

1,183,703.

Patented May 16, 1916.

2 SHEETS--SHEET 2.



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UNITED STATES PATENT OFFICE.

ELZIE WHEELER, OF PARIS, ILLINOIS.

HOG-RINGING PLIERS.

1,183,703.

Specification of Letters Patent.

Patented May 16, 1916.

Application filed June 24, 1913. Serial No. 775,549.

To all whom it may concern:

Be it known that I, ELZIE WHEELER, a citizen of the United States, residing at Paris, in the county of Edgar and State of Illinois, have invented new and useful Improvements in Hog-Ringing Pliers, of which the following is a specification.

This invention relates to hog ringing pliers, and it has for its object to produce a device of this class embodying a magazine or automatic feeding device of simple and improved construction.

A further object of the invention is to produce a magazine or feeding device of simple and improved construction which may be readily applied to a hog ringing pliers for use in connection therewith.

A further object of the invention is to produce a device of the class described including a magazine supporting slide and means for adjusting and regulating the throw of said slide.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claim.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the claim may be resorted to when desired.

In the drawings,—Figure 1 is a plan view of the pliers without the magazine or feeding device. Fig. 2 is a top plan view of the feeding device, detached. Fig. 3 is a longitudinal sectional view showing the magazine or feeding device in position on the pliers. Fig. 4 is a transverse sectional view taken on the line 4—4 in Fig. 3. Fig. 5 is a horizontal sectional view taken on the line 5—5 in Fig. 4. Fig. 6 is a detail view in perspective showing the parts of the magazine separated and detached from each other. Fig. 7 is a plan view of one of the rings used in connection with the device.

Corresponding parts in the several figures are denoted by like characters of reference.

The pliers of the improved device is composed of the members A, B which are connected pivotally by a pivot member C. Each

of the members A and B comprises a handle portion 10 and a jaw member 11, said jaw members being normally forced apart by the action of a spring 12 interposed between the handle members. The movement of said handle members in the direction of each other is limited by a screw 13 extending through one handle member in the direction of its mate. The jaw members are provided with the ring receiving grooves or recesses 14 of suitable shape to receive the ring 15, the prongs or barbs of which, 16, by the action of the pliers will be bent, driven through the cartilage of the snout of the animal to which the ring is to be applied and overlapped so as to secure the ring in position.

The feeding device comprises primarily a supporting member or slide 17 having a slot 18 engaging the pivot member C which is of suitable construction and dimensions to support and retain the slide in position flatwise with respect to the pliers. The slide 17 is provided near its rear end with an aperture 19 communicating with a narrow slot 20 running lengthwise of the slide. The slide is connected with the handle members of the pliers by links or toggles 21, each of which is connected at its outer end with a handle member by a pivot member 22 which pass through apertures 22' in the handle portions 10. The toggles are overlapped at their inner ends and are connected together and with the slide 17 by means of a screw 23 having a reduced portion 24 which, by partly unseating or withdrawing the screw, may be placed in registry with the slot 20. It will be evident that the toggles 21 serve to limit the spreading movement of the handle members 10 under the tension of the spring 12.

The slide 17 carries at its front end a frame 25 including a rearward offset 26 upon which the magazine core 27 is mounted and secured by means of a fastening member, such as a screw 28. The frame 25, the contour of which may be varied to correspond with the type of ring that is to be used, is provided at opposite sides thereof with upstanding flanges 29 which are spaced from the opposed walls of the core member 27 sufficiently to admit of the insertion therebetween of a stack of rings 15, the lowermost one of which when the slide 17 is retracted will be supported on the upper faces of the jaw members 11 of the pliers. Sup-

ported on the topmost ring is a follower 30 which surrounds the core member and which is pressed downwardly by the action of a spring 31, the upper extremity of which engages the underside of a top plate 32 which is detachably mounted on the core member 27, overhanging the latter, as shown, said top plate being provided with a slot 33 engaged by a suitable securing member, such as a turn button 34.

It will be readily seen that by detaching the top member 32 and the follower 30 a stack of rings may be placed in the magazine which is composed of the core 27 and the flanges 29, the rings partly surrounding the core and being included between the flanges and the core. The follower with the spring and the top member having been replaced in position, the device is now ready for operation. By compressing the handles 10 of the pliers against the tension of the spring 12 the ring seated in the grooves 14 may be clenched in the snout of a hog; the slide carrying the magazine being meanwhile retracted by the action of the toggles 21. When, after the application of a ring the handles are released, the slide 17 carrying the magazine will move forwardly until the lowermost ring of the stack drops into the recesses 14, where it will be in readiness for a repetition of the operation.

The device is simple in construction, inexpensive, easily applied to hog ringing pliers of conventional construction and thoroughly efficient in operation and useful for the purposes for which it is provided.

Having thus described the invention, what is claimed as new, is:—

A hog ringing pliers, a magazine therefor, comprising a slide mounted for longitudinal movement on the body of the pliers and formed with an opening and a pair of oppositely arranged upstanding spaced flanges arranged partly around said opening, a core supported on the slide and spaced from the flanges to form a ring chamber in communication with said opening, a top plate, a follower surrounding the core and of a width equal to the distance between said core and flanges, a spring surrounding the core and having one extremity rigidly connected to said top-plate the other extremity rigidly connected to said follower and a pin and slot connection between the core and top-plate.

In testimony whereof I affix my signature in presence of two witnesses.

ELZIE WHEELER.

Witnesses:

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PHILIP ALBRIGHT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."