

No. 619,325.

Patented Feb. 14, 1899.

O. E. MARTIN.  
NAIL OR SPIKE DRAWING DEVICE.

(Application filed Jan. 3, 1898.)

(No Model.)

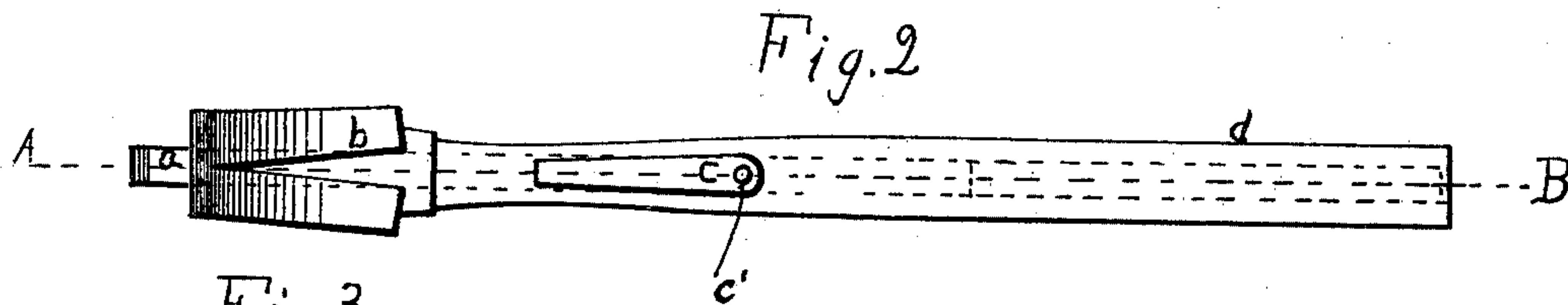
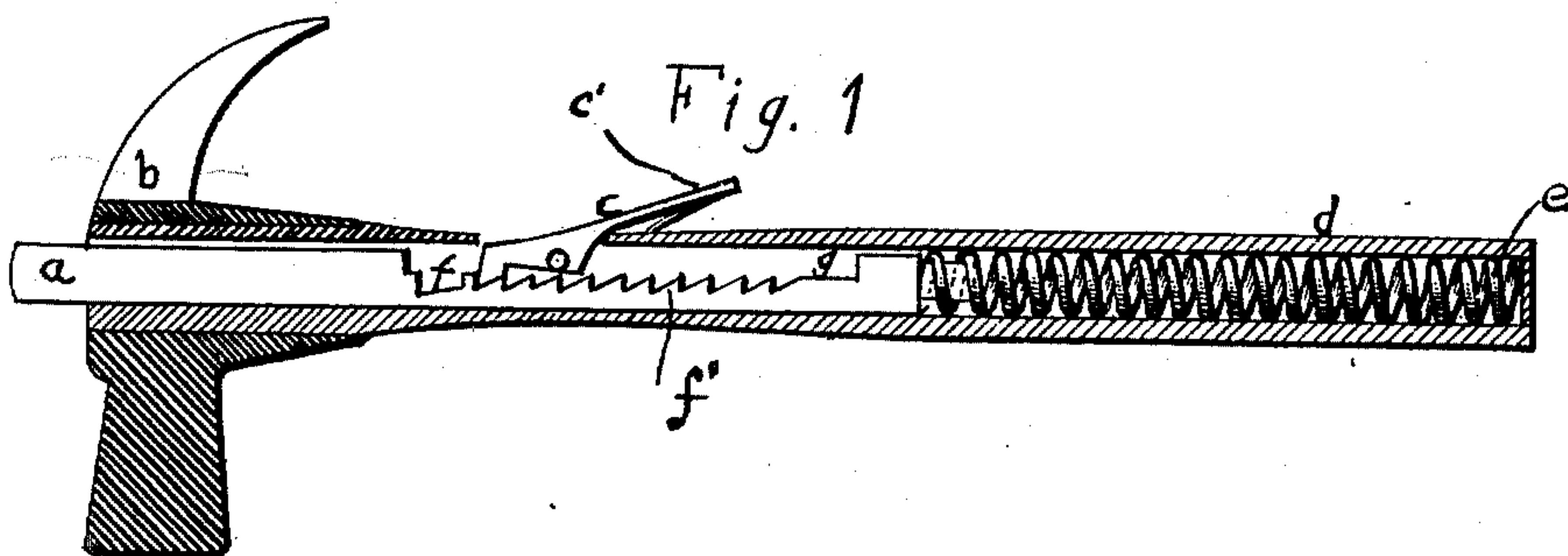
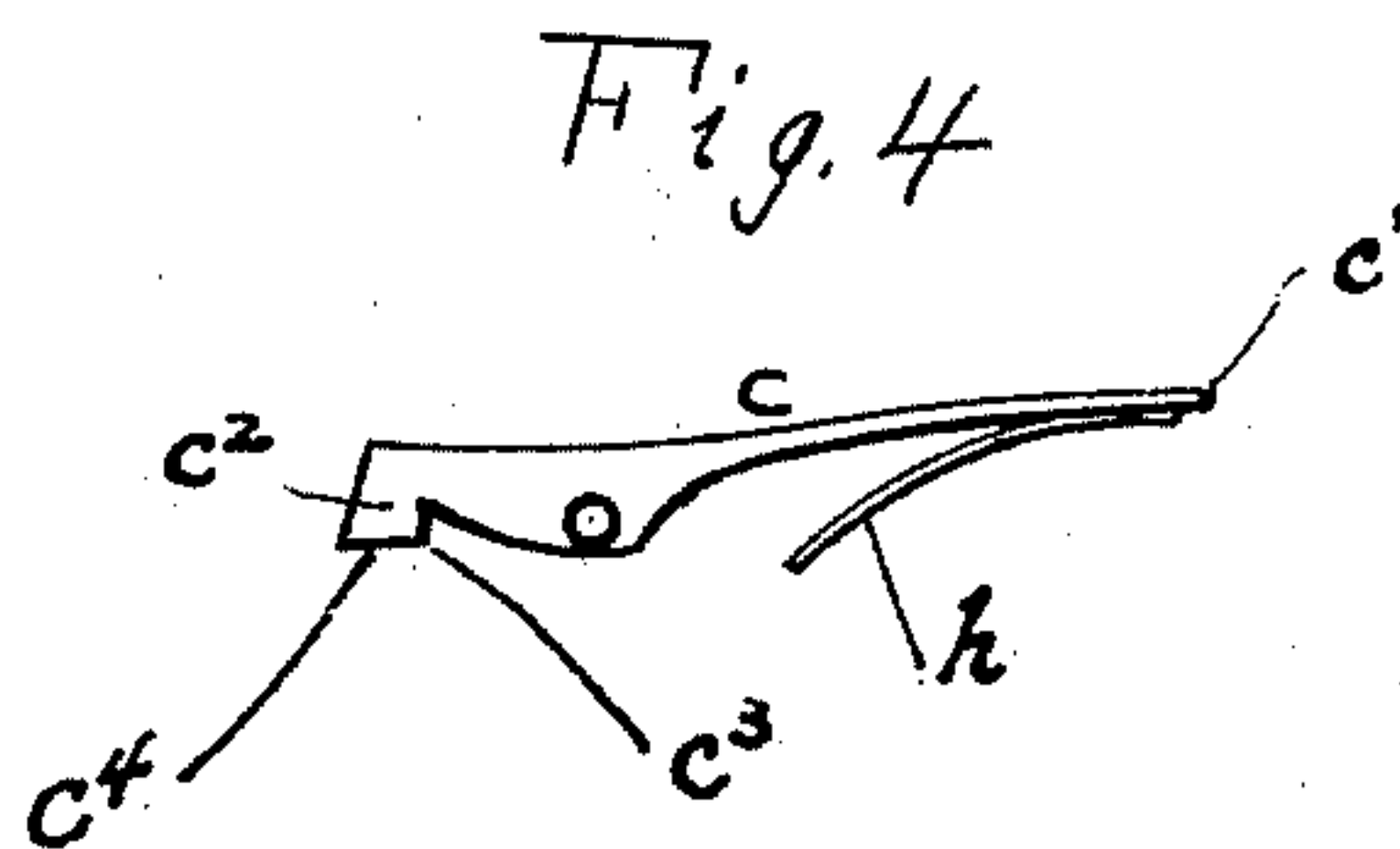
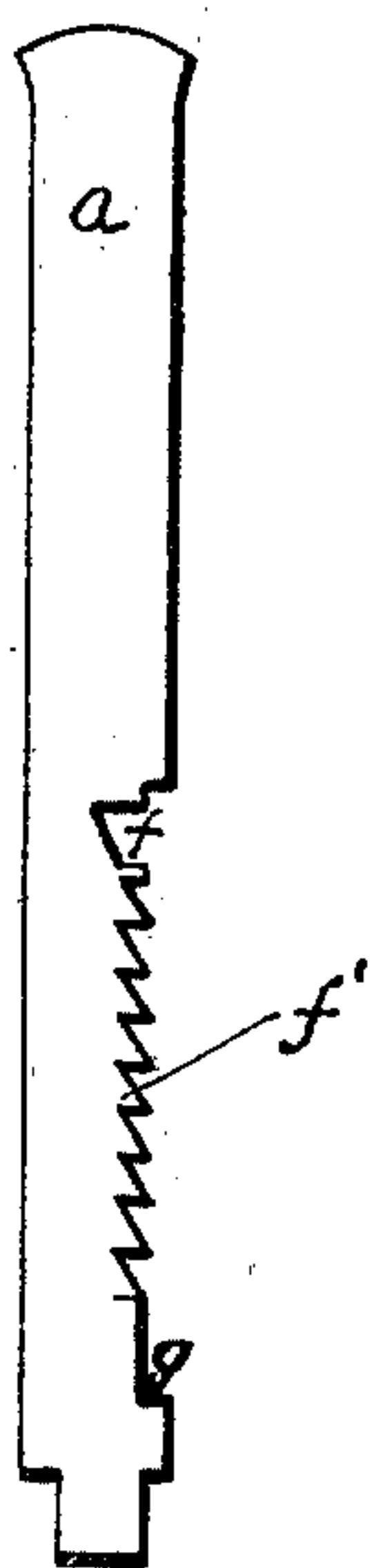


Fig. 3



Witnesses  
Myrtle Weaver  
O. E. Martin

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# UNITED STATES PATENT OFFICE.

ORLANDO E. MARTIN, OF WAKEFIELD, NEBRASKA.

## NAIL OR SPIKE DRAWING DEVICE.

SPECIFICATION forming part of Letters Patent No. 619,325, dated February 14, 1899.

Application filed January 3, 1898. Serial No. 665,492. (No model.)

*To all whom it may concern:*

Be it known that I, ORLANDO E. MARTIN, a citizen of the United States, residing at Wakefield, in the county of Dixon and State of Nebraska, have invented a new and useful Improvement in Nail or Spike Drawing Devices, of which the following is a specification.

My invention relates to an improvement in hammers, and more particularly to that class of hammers employed for drawing long nails and spikes, the object being to afford a speedy means of drawing nails and spikes, to relieve as far as possible excessive strain upon the hammer-handle, and to maintain such a relation between the claw and the head of the nail or spike that the latter will not be bent in drawing, but rather if it is bent a tendency will take place to straighten it.

With these objects in view the invention consists of a hollow handle, a claw, and a spring-actuated slide-bar in the hollow handle in connection with a dog pivoted in the handle in position to prevent the entire withdrawal of the bar therefrom.

It further consists in a claw, a handle, a dog, and a slide-bar having teeth of such construction that the dog cooperating therewith only requires manipulation at one point to admit of the automatic adjustment of the bar.

The invention still further consists in certain novel features of construction and combinations of parts, which will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in longitudinal section. Fig. 2 is a view in rear elevation. Fig. 3 is a detached view of the bar, and Fig. 4 is a detail of the spring locking-dog.

The letter *b* represents the claw, and *d* the hollow handle, secured in the claw in the usual manner.

The letter *a* indicates a flat slide-bar fitted in the hollow handle, and *e* is a spiral spring which bears outwardly upon the bar and normally tends to force it outward. The office of this bar is to act as a movable fulcrum on which the claw is to rock in the operation of pulling a long nail or spike. This bar has a rack-tooth *f* at a point conveniently about midway of its length, and adjacent to this

and extending toward the inner end of the bar are the ratchet-teeth *f'*. At the extreme inner end the shoulder *g* is formed.

A dog *c* is pivoted just inside the shell, the thumb-piece *c'* extending outside, where it can be conveniently operated. Thus the body of the dog is within the shell of the handle in the path of the shoulder *g*, so that it prevents the absolute withdrawal of the bar from the handle. The nose *c<sup>2</sup>* of the dog has an angular shoulder *c<sup>3</sup>*, adapted to overreach the rack-tooth *f* to lock the bar inward, and it has the beveled portion *c<sup>4</sup>*, which rides over the ratchet-teeth when back of the rack-tooth *f*, permitting the bar to be drawn outward without the necessity of touching the dog and dropping automatically into position to lock the bar against being pushed back inward by the action of the spring *h*, the result being that one release of the spring *e* is sufficient until the nail is entirely pulled. A powerful as well as simple and inexpensive tool is the result of this construction, and the perfect efficiency and quickness of action are easily demonstrable.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a hammer, the combination with a claw, a handle and a spring-dog, of a spring-actuated bar having sliding relation with the handle, said bar having rack and ratchet teeth which the dog is adapted to engage, the rack being at an end of the ratchet-teeth so that when it passes the dog the tension of the spring which actuates the bar is given freedom to force the bar continuously outward without further manipulation of the dog until the nail or spike is entirely withdrawn.

2. In a hammer, the combination with a claw and hollow handle, of a slide-bar having a shoulder on its inner end and a dog pivoted in position to lock the bar, and in the path of the shoulder thereon, whereby to serve the additional function of preventing the entire withdrawal of the bar from the hammer.

ORLANDO E. MARTIN.

Witnesses:

MYRTLE WEAVER,  
P. B. MARTIN.