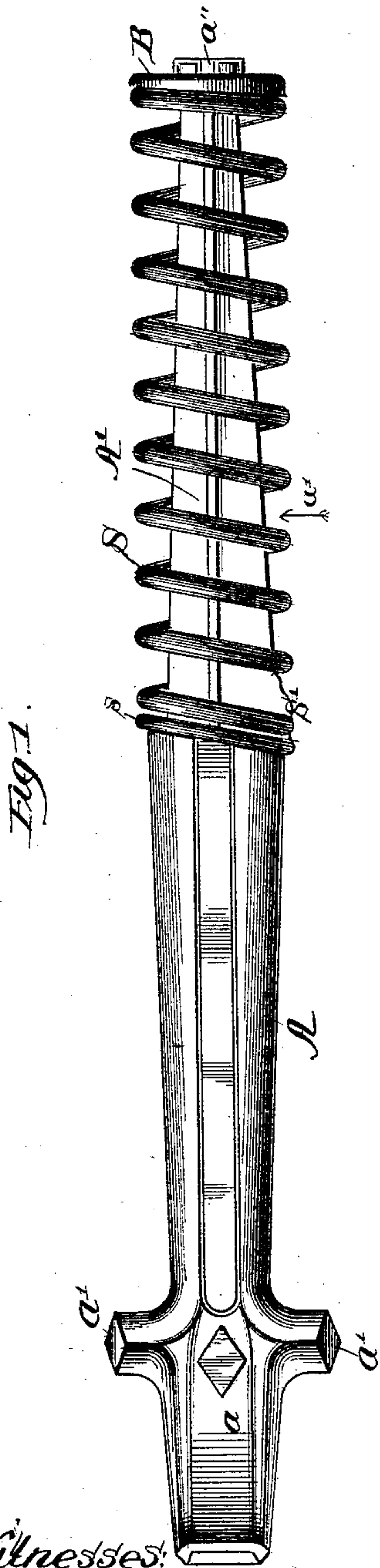


(No Model.)

F. W. HOEFER.  
HANDLE.

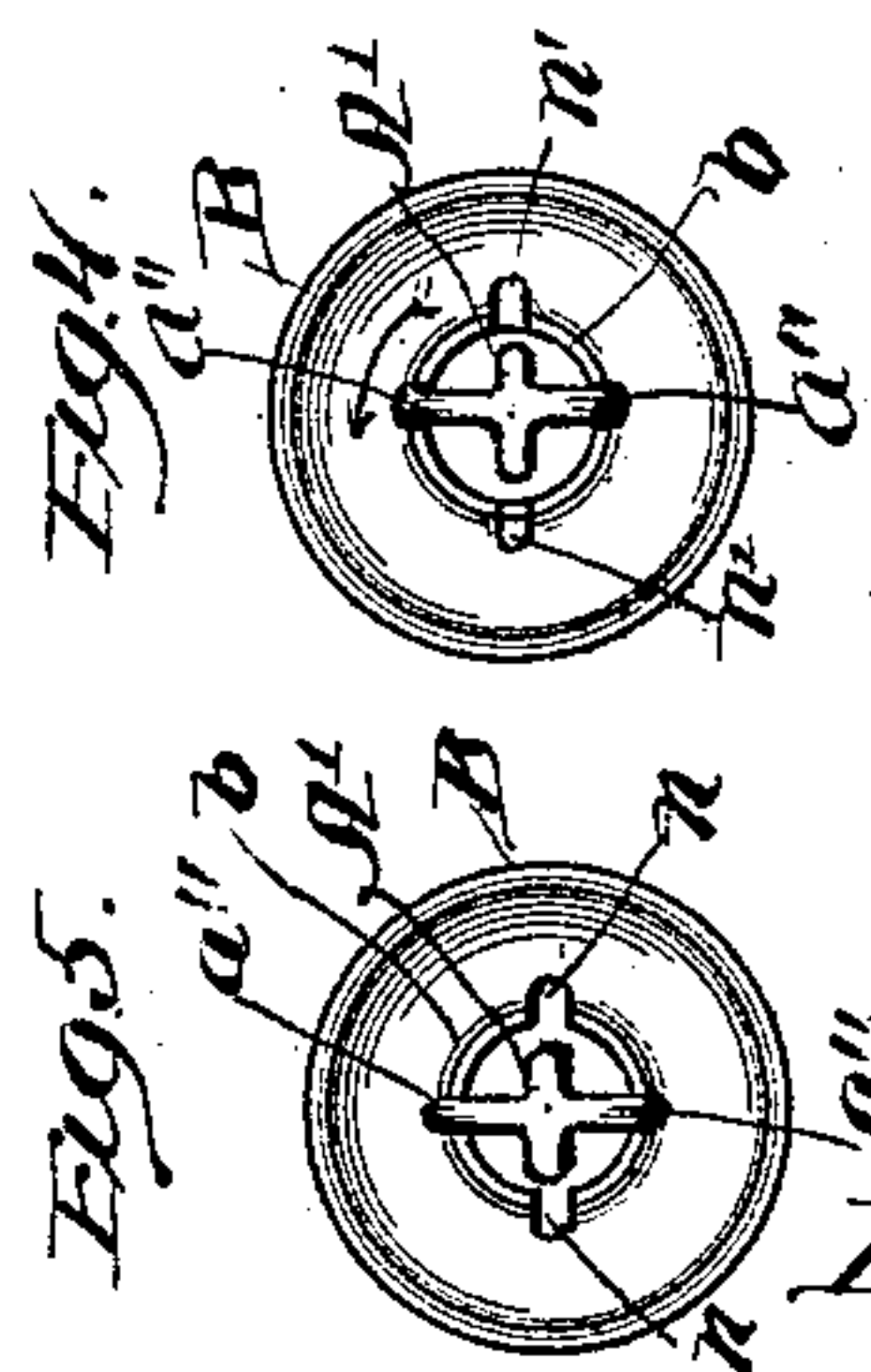
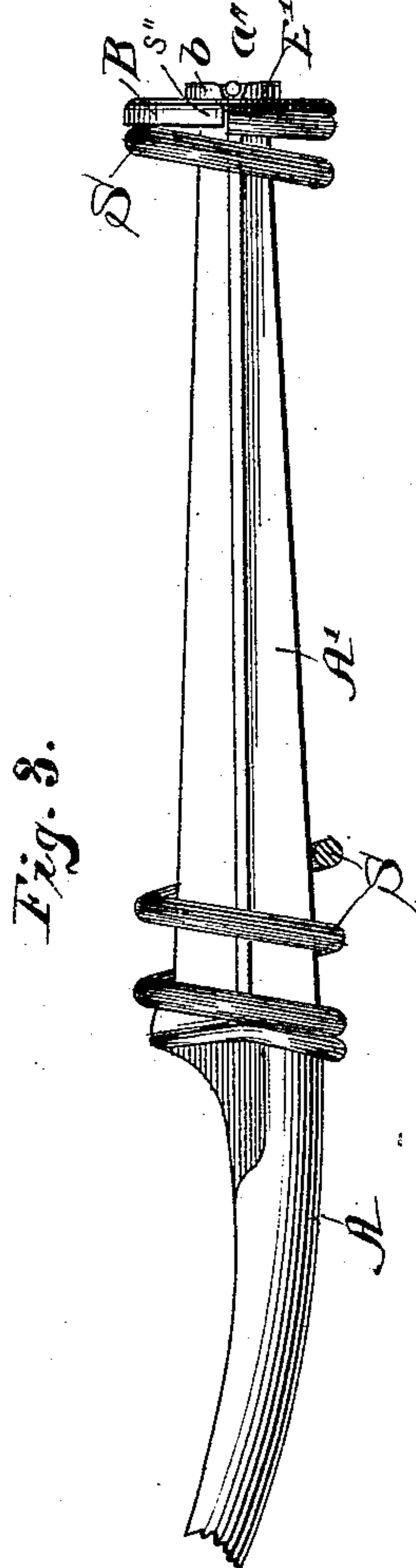
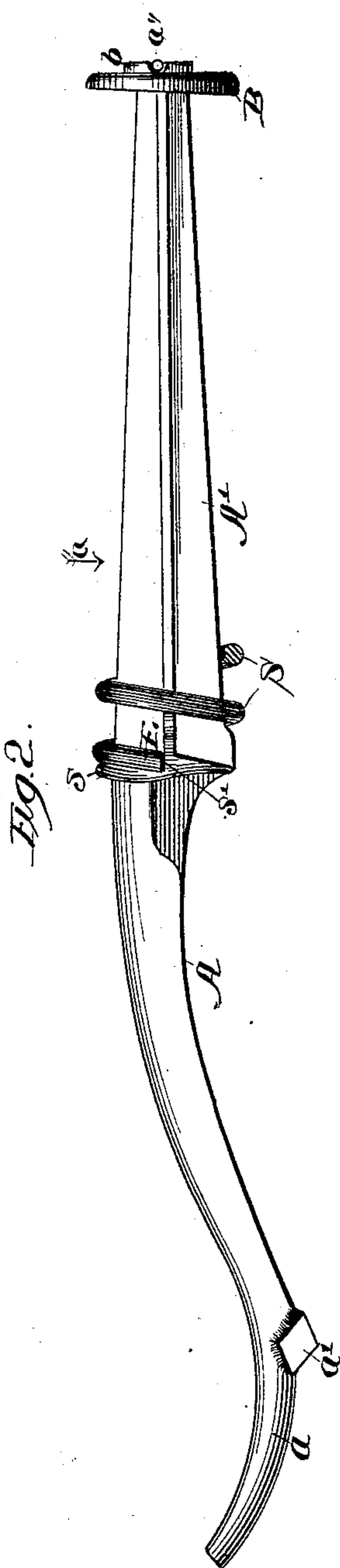
No. 489,560.

Patented Jan. 10, 1893.



Witnesses:

Chas. Cheroey  
C. N. Barry



*Inventor*  
F. W. Hofer—  
By Wiles & Greene,  
Attys.



# UNITED STATES PATENT OFFICE.

FREDERICK W. HOEFER, OF FREEPORT, ILLINOIS.

## HANDLE.

SPECIFICATION forming part of Letters Patent No. 489,560, dated January 10, 1893.

Application filed January 3, 1891. Serial No. 376,570. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK W. HOEFER, a resident of Freeport, in the county of Stephenson and State of Illinois, have invented certain new and useful Improvements in Handles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to improvements in handles for stove cover lifters, or other articles liable to be heated in use, the object of the invention being to provide such articles with a handle of simple construction and having a slight amount of conducting material in proportion to the amount of radiating surface.

The invention is fully described in this specification and shown in the accompanying drawings, in which:

Figure 1 is a plan of a stove cover lifter embodying my invention, the view being in the direction indicated by the arrow *a*, Fig. 2. Fig. 2 is a side elevation of the same, a portion of the handle being broken away, and the view being in the direction indicated by the arrow *a'*, Fig. 1. Fig. 3 is an opposite side elevation of the handle of the device; and Figs. 4 and 5 are end views of the handle, illustrating the connection of the shank of the lifter with the detachable button which forms the end of the handle.

In the device illustrated in the views, A is a suitably formed body of a stove cover lifter, this body being provided at one end with a curved tip, *a*, and lateral lugs, *a'*, and at the other end with a preferably tapering shank A' terminating in a cross bar *a''*. The shank A' may be of any desired form, but it is preferably provided with strengthening ribs as shown, and at the junction of the shank A' with the body A, of the lifter, is formed a circumferential shoulder, *s*, having in its face an offset *s'*. A coiled spring, S, encircles and incloses the shank A', and forms the surface of the handle of the device, the inner end coil of the spring being in contact with the shoulder *s*, and the end of the wire of said coil being in contact with the offset *s'*. The spring is held in place to the shank by means of a button, B, against which the outer coil of the

spring butts, the button being held in place in the manner illustrated in Figs. 4 and 5, in which B is the button, and *n n* are notches in the margin of the central opening in the button, the extreme length of the opening formed by the notches *n n*, being somewhat greater than the length of the cross bar *a''*, on the end of the shank A'. An outwardly projecting neck, *b*, encircles the opening at the center of the button, and in this neck are formed a second pair of notches, *n'*, in a line at right angles to the line of the notches, *n*, the extreme length of the opening formed by the notches *n'* being less than the length of the cross bar *a''* on the end of the shank.

When it is desired to assemble the parts of the device, the spring S, is placed on the shank A', the inner end of the coil being in contact with the shoulder, *s* and offset *s'*, and the length of the spring being such that its outer end projects slightly beyond the end of the shank. The button B, is then placed upon the outer end coil of the spring S, the end of the wire of the outermost coil being in contact with an offset *s''* upon the button. The button is then slipped over the end of the shank in the position indicated by Fig. 4, the cross bar *a''* passing through the opening formed by the notches, *n*, and the spring being compressed as the button is pressed inward. When the cross bar *a''* is passed through the notches *n*, the button is rotated ninety degrees in the direction indicated by the arrows on the button in Fig. 4, until the cross-bar *a''* coincides in angular position with the notches *n'*, when the outward pressure of the spring forces the button outward and causes the notches *n'* to engage the cross bar and hold the button in position. The rotation of the button in the manner described puts a slight torsional strain upon the spring and all the parts are thus held firmly and securely in position. The button may evidently be detached by reversing the process used in putting the parts of the device together, and the means and method of connecting and disconnecting the parts is extremely simple.

It is evident that the use of the handle shown and described herein is not necessarily confined to stove cover lifters, but that it may be applied to any utensil which it is desirable to supply with a non-heating handle, and I

desire therefore, not to limit my invention to the combination of the exact elements shown in the drawings and hereinbefore described,

Having now explained and described my  
5 invention, what I claim as new and desire to secure by Letters-Patent is,

The combination with the handle shank having the longitudinal ribs and having at its inner end the circumferential shoulder  
10 with an offset in its face and at its outer end a button with a corresponding offset, of a

spring coil longitudinally compressed between said shoulder and button with the ends of the coil wire resting respectively against said offsets.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

FREDERICK W. HOEFER.

Witnesses:

R. H. WILES,  
J. I. NEFF.

15