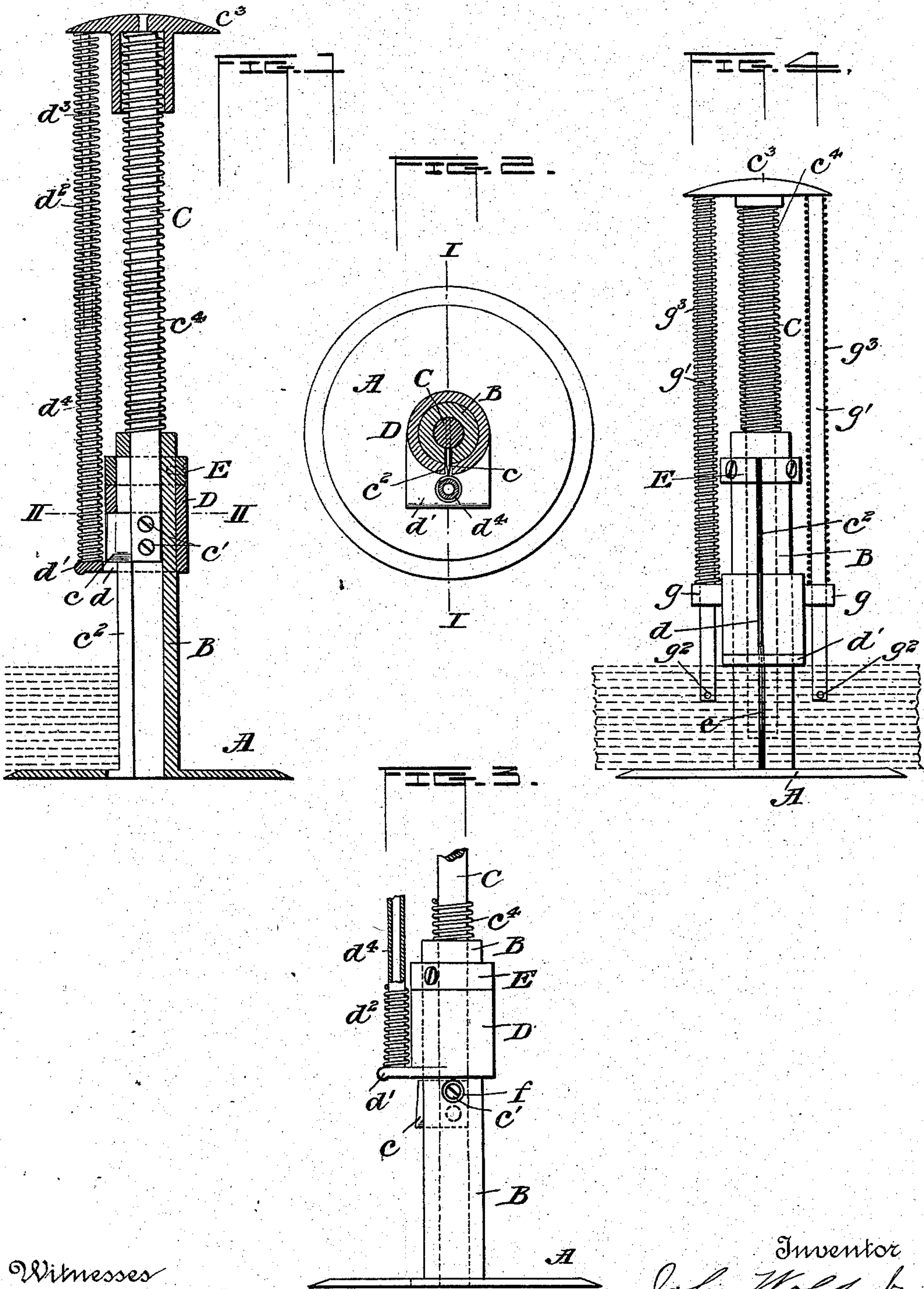


(No Model.)

J. WOLF, Jr.
CLOTH NOTCHING DEVICE.

No. 528,216.

Patented Oct. 30, 1894.



Witnesses
L. A. Connerly,
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UNITED STATES PATENT OFFICE.

JOHN WOLF, JR., OF CINCINNATI, OHIO, ASSIGNOR TO THE WOLF ELECTRICAL PROMOTING COMPANY, OF SAME PLACE.

CLOTH-NOTCHING DEVICE.

SPECIFICATION forming part of Letters Patent No. 528,216, dated October 30, 1894.

Application filed May 31, 1894. Serial No. 513,003. (No model.)

To all whom it may concern:

Be it known that I, JOHN WOLF, Jr., a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Cloth-Notching Devices; 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 appertains to make and use the same.

This invention relates to notching devices, but more particularly to such as are used for notching a number of superposed layers of cloth.

Primarily the object of my invention is to provide a simple, compact and inexpensive device capable of cutting a notch and holding the material by the same operation.

With this and other objects in view the invention consists in the construction and combination of the several parts as will be more fully hereinafter described and then defined in the claims at the end of the description.

Reference being had to the accompanying drawings forming a part of this specification, Figure 1 is a vertical sectional side elevation on the line I—I of Fig. 2, illustrating the device in position for use. Fig. 2 is a sectional plan on the line II—II of Fig. 1. Fig. 3 is a sectional side elevation of the lower portion of the device showing the plunger partly depressed and in a position to have the knife either secured to or removed from the plunger; and Fig. 4 is a sectional front elevation of a slightly modified form of notcher, illustrating the knife depressed to cut the notch in the cloth.

In the drawings A designates a foot-plate supporting a hollow standard B, which is preferably formed integrally with the foot-plate. Adapted to slide within the hollow standard is a rod or plunger C preferably slotted at its lower or inner end to receive a knife or cutter c ; the said knife being secured to the plunger by means of the screws c' , and extending outwardly through a slot c^2 of the standard sufficiently far to cut a notch in the cloth when the plunger is depressed, the cloth being placed in the position shown in Figs. 1 and 4.

Secured to the outer end of the plunger is

a handle c^3 , preferably rounded to form a convenient rest for the hand while depressing said plunger. The handle is provided with a hollow stem to receive the end of a spiral spring c^4 which surrounds the rod C and extends between said handle and the end of the hollow standard B for the purpose of returning the plunger to its normal position after being depressed.

D is a gripping sleeve slidably held upon the standard B and has a slot d extending part of its length through which the knife c passes, the upper portion of the slot serving as an abutting surface for the upper edge of the knife to return the said gripping sleeve to a raised position as the spring c^4 returns the rod or plunger C to its normal position. The sleeve D has extending outwardly therefrom a gripping jaw d' , adapted to grip and retain the cloth while the same is being notched, as shown in Fig. 4. This gripping sleeve is yieldingly held upon the standard B by a spiral spring d^2 , extending from the gripping jaw d' , to the under side of the handle c^3 , and which surrounds a rod d^3 secured at one of its ends to said handle and having its other end passed through a tubular stem or upright d^4 secured to and extending upwardly from the gripping jaw d' , to serve as a guide for said spring. The spring d^2 is of sufficient strength to carry the sleeve as the plunger is depressed and to retain the cloth in a fixed position. This arrangement permits the plunger to be carried downwardly as the plunger is depressed and still allows the plunger to descend to cut the notch after the cloth has been engaged and held by the jaw of the gripping device.

The standard B has a collar E preferably adjustably secured to the standard for the purpose of limiting the movement of the sleeve D upon said standard.

To remove or secure the knife to the plunger without removing or disconnecting the parts of the device, I provide an aperture f in the standard B, as shown in Fig. 3, whereby when the plunger is depressed, as illustrated, and the gripping sleeve held above the same, the screws c' which secure the knife to the plunger may be removed by inserting the end of a screw driver into the aperture f , the

other screw or screws being removed in the same manner.

The operation of the device will be readily understood from the foregoing description.

5 It will be seen that by the arrangement described the cloth will be held and a notch cut in the edge thereof by simply depressing the plunger C.

I may, if desired, use such construction as
10 shown in Fig. 4, in which the base, standard, plunger and operating device for same are like those disclosed in the preferred form. The sleeve, however, is provided with outwardly extending lugs or projections g preferably located on opposite sides of said sleeve
15 and each having an aperture through which pass the rods g' secured at one of their ends to the handle c^3 , and provided at the lower end of each with a pin g^2 , which serves to prevent the rod from being disengaged from
20 the aperture of the projection g . The rods g' have each a spiral spring g^3 surrounding same to yieldingly hold the sleeve upon the standard B for the same purpose as set forth
25 in the other figures.

Instead of the knife serving to return the sleeve to a raised position, as shown in the preferred form, the pins g^2 in the ends of the rods g' accomplish this by engaging the under
30 side of the projections g , as the plunger C is returned to its normal position.

I might arrange the spring d^2 and a guide therefor in the rear of the sleeve D, instead of in the front, if so desired; and other
35 changes may be made without departing from the spirit of my invention.

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

40 1. In a notcher, the combination with a hollow vertically slotted standard, of a plunger or rod working in said standard, a knife arranged on one end of the plunger and pass-

ing through the slot of the standard, a gripping sleeve slidably held upon the standard, 45 a spring yieldingly connecting the sleeve to the plunger, together with another spring tending to keep the plunger in a raised position, whereby both plunger and sleeve are adapted to be operated simultaneously to 50 grip the material and cut the notch by a single operation, substantially as described.

2. In a notcher, the combination with a hollow standard having a vertically arranged slot therein, of a plunger normally pressed 55 upwardly by a spring, and carrying at its lower end a knife or cutter extending outwardly through a slot in the standard, a sleeve carrying a gripping jaw and slidably held upon said standard and provided with a slot for a 60 part of its length for the passage of said knife, together with a yielding connection between the sleeve and the plunger, whereby both plunger and gripping sleeve may be operated at the same time, substantially as de- 65 scribed.

3. A notcher comprising a standard, a spring-pressed knife-carrying plunger having a handle on its outer end, in combination with a sleeve slidably held upon the standard and 70 provided with a slot for the passage of the knife of the plunger and a jaw to grip the material, a tubular stem or upright arranged upon the jaw of said sleeve, a rod secured at one of its ends to the handle and having its other 75 end entering the tubular upright, together with a spring arranged around the upright and rod and extending between the jaw and handle, substantially as described.

In testimony whereof I affix my signature in 80 presence of two witnesses.

JOHN WOLF, JR.

Witnesses:

JOS. H. LITTELL,
DAVID WERTHEIM.