(No Model.)

S. S. CASEY.

WIRE FABRIC TOOL.

No. 521,635. Patented June 19, 1894.

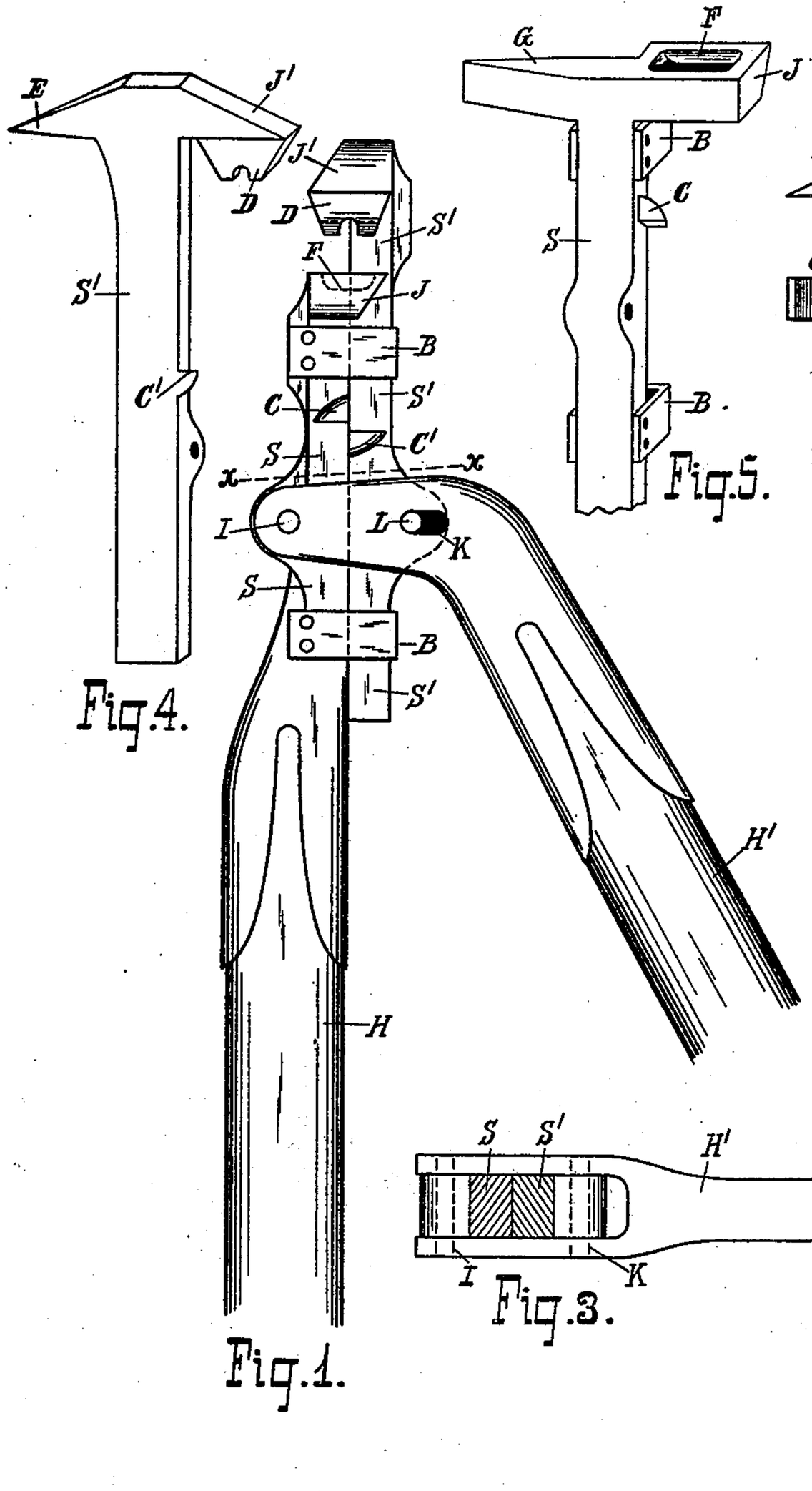

Fig. 4.

Fig. 1.

Fig. 5.

Fig. 3.

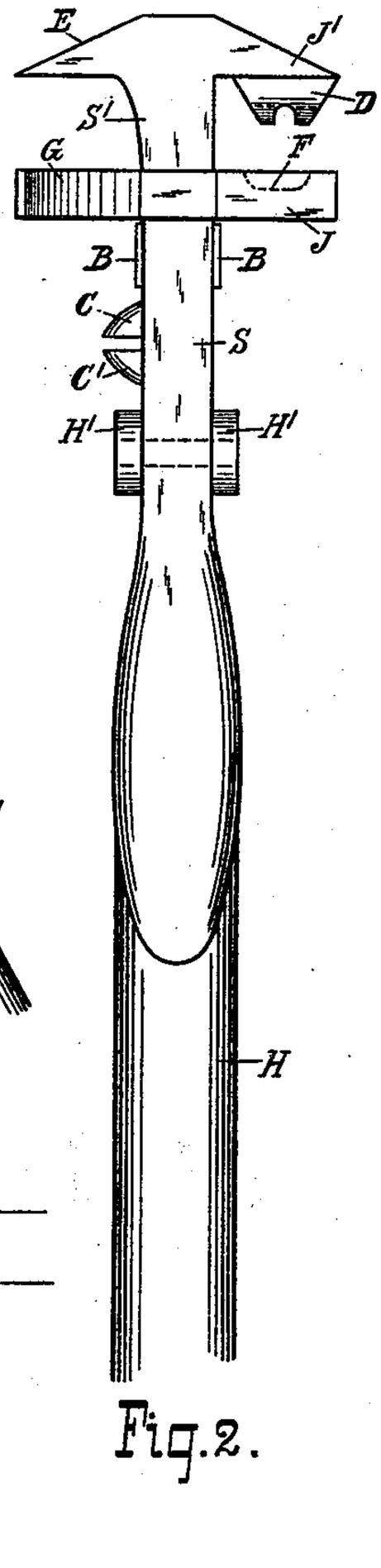

Fig. 2.

Witnesses
A. Edmunds,
S. McBain.

Inventor
Selden S. Casey
By P. J. Edmunds
Attorney.

THE NATIONAL LITHOGRAPHING COMPANY,
WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

SELDEN S. CASEY, OF LONDON, CANADA.

WIRE-FABRIC TOOL.

SPECIFICATION forming part of Letters Patent No. 521,635, dated June 19, 1894.

Application filed October 12, 1893. Serial No. 488,016. (No model.)

To all whom it may concern:

Be it known that I, SELDEN S. CASEY, a subject of the Queen of Great Britain, and a resident of the city of London, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Metal-Fabric Tools, of which the following specification, taken in connection with the accompanying drawings, forms a full, clear, and exact description.

This invention relates to a tool for compressing a metal plate, when the latter is suitably adjusted in connection with two wire strands crossing one another, to bind and hold said strands securely together.

This invention consists of the improved construction and combination of parts of the same, as will be hereinafter first fully set forth and described, and then pointed out in the claims.

Reference being had to the accompanying drawings, Figure 1. is a side elevation of a tool embodying my invention. Fig. 2. is another side view of the device at right angles to, and viewing it from the left of the position seen in Fig. 1. the cutters being shown on the opposite side from that in which they appear in said Fig. 1. Fig. 3. is a cross sectional view on the line, *x*, *x*, of Fig. 1. Figs. 4, and 5, are detail perspective views of the respective standards.

S, designates a standard, rigidly secured to, or formed integral with the handle, H; and rigidly secured to or formed integral with this standard, S, is the cutter, C, cold chisel, G, and jaw, J, in the upper face of which, the concave, F, is formed, which concave is fitted to the outside shape of the metal plate, which secures the wire strands of the fabric together.

S′, designates an adjustable standard, which is guided and held in line, and in contact with the standard, S, by the straps or bands, B, secured to said standard, S; and this standard, S′, is formed with a cutter, C′, with a staple puller, E, and with the solid overhanging jaw, J′, and rigidly secured to, or formed integral with the under side of this jaw, J′, is a die, D, which is regulated to come opposite the concave, F, in the jaw, J.

H′, designates a handle, pivotally secured at, I, to the standard, S; and this handle, H′, is forked, to extend on each side of the standards, S, S′, as shown in Fig. 3.

K, K, designate slots, formed in the handle, H′, through which a pivot bolt, L, secured to the standard, S′, projects.

The operation of this tool is as follows:—After the metal plate is suitably adjusted on the metal strands, and placed between the jaws, J, J′, said strands and metal plate are rigidly bound, and securely held together, by the compression of the jaws, J, J′, together on said metal fabric interposed between said jaws, this is accomplished by moving the handle, H′, toward the handle, H; the slot, K, readily permitting the operation of said handle, H′, in a lateral, and the standard, S′, in a vertical direction. When required, the metal strand may be severed or cut by inserting it between the cutters, C, C′, and moving the handle, H′, toward the handle, H.

The device, E, may be inserted under the staple, which secures the fabric to any framework, and said staple may thereby be withdrawn.

G, is a cold chisel, which is useful for cutting metals by blows from a hammer applied to the outer end of the jaw, J.

The hereinbefore described tool embodies in one, all the devices ordinarily used in connection with the manufacture of metal fabrics, and in such a manner, that neither one interferes in any way with the other, when in operation.

Having thus described my invention, I claim—

1. The stationary standard, S, provided with the jaw, J, in the upper face of which the concave, F, is formed, and the straps, B, B, in combination with the adjustable standard, S′, provided with the jaw, J′, formed with the die, D, and the handles, H, H′, the latter of which is pivotally secured to the standard, S, and formed with a slot, K, through which and the standard, S′, the pivot bolt, L, extends, substantially as and for the purpose set forth.

2. The stationary standard, S, provided with the jaw, J, in the upper face of which the concave, F, is formed, the cutter, C, and the straps, B, B, in combination with the adjustable standard, S′, provided with the jaw, J′, formed with the die, D, the cutter, C′, and the han-

dles, H, H′, the latter of which is pivotally secured to the standard, S, and formed with a slot, K, through which and the standard, S′, the pivot bolt, L, extends, substantially as and for the purpose set forth.

3. The stationary standard, S, provided with the jaw, J, in the upper face of which the concave, F, is formed, and the straps, B, B, in combination with the adjustable standard, S′, provided with the jaw, J′, formed with the die, D, the staple puller, E, and the handles, H, H′, the latter of which is pivotally secured to the standard, S, and formed with a slot, K, through which and the standard, S′, the pivot bolt, L, extends, substantially as and for the purpose set forth.

4. The stationary standard, S, provided with the jaw, J, in the upper face of which the concave, F, is formed, the cold chisel, G, and the straps, B, B, in combination with the adjustable standard, S′, provided with the jaw, J′, formed with the die, D, and the handles, H, H′, the latter of which is pivotally secured to the standard, S, and formed with a slot, K, through which and the standard, S′, the pivot bolt, L, extends, substantially as and for the purpose set forth.

5. The stationary standard, S, provided with the jaw, J, in the upper face of which, the concave, F, is formed, the cutter, C, the cold chisel, G, and the straps, B, B, in combination with the adjustable standard, S′, provided with the jaw, J′, formed with the die, D, the cutter, C′, the staple puller, E, and the handles, H, H′, the latter of which is pivotally secured to the standard, S, and formed with a slot, K, through which and the standard, S′, the pivot bolt, L, extends, substantially as and for the purpose set forth.

In testimony whereof I have signed in the presence of the two undersigned witnesses.

SELDEN S. CASEY.

Witnesses:
P. J. EDMUNDS,
S. MCBAIN.