

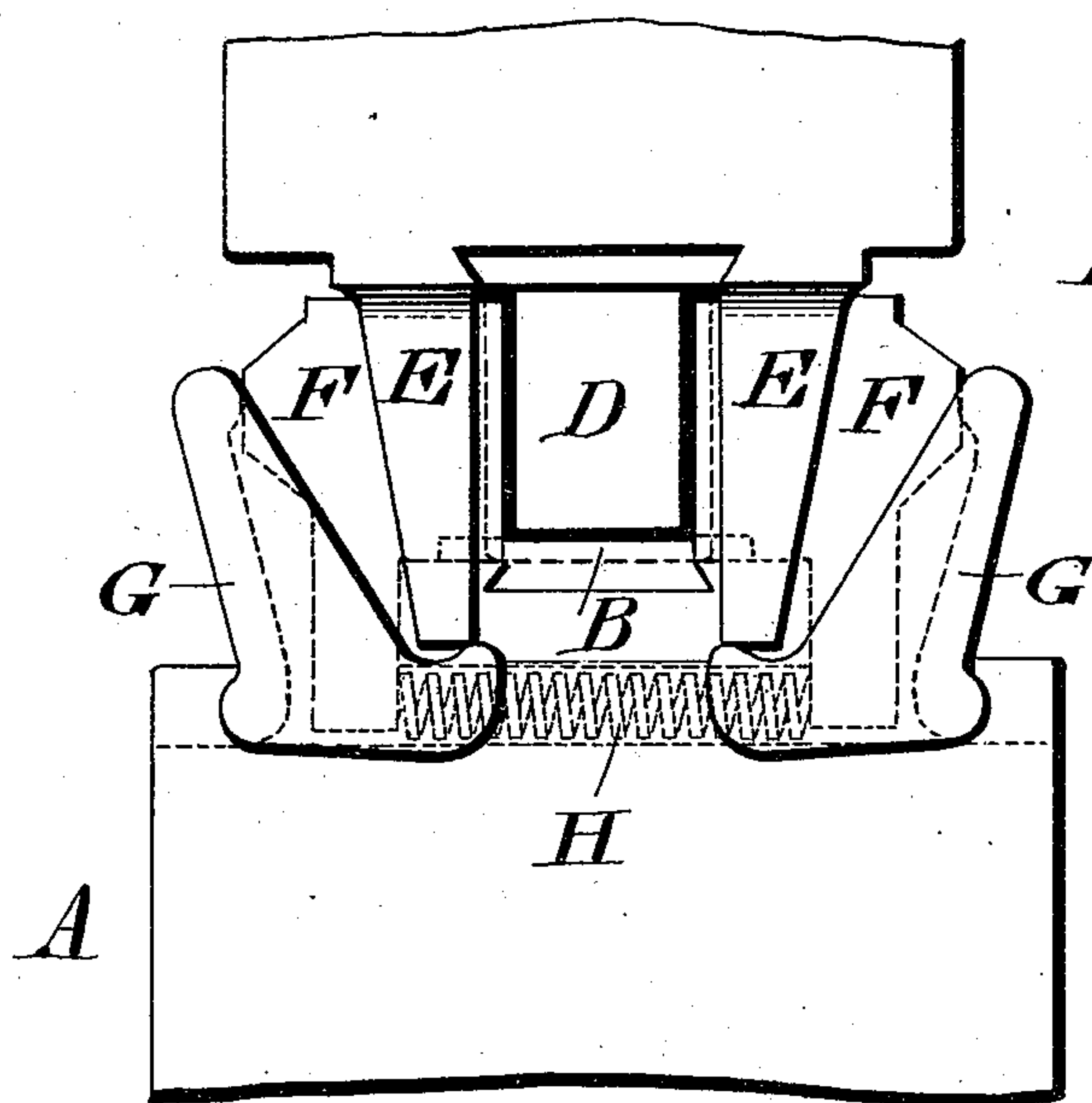
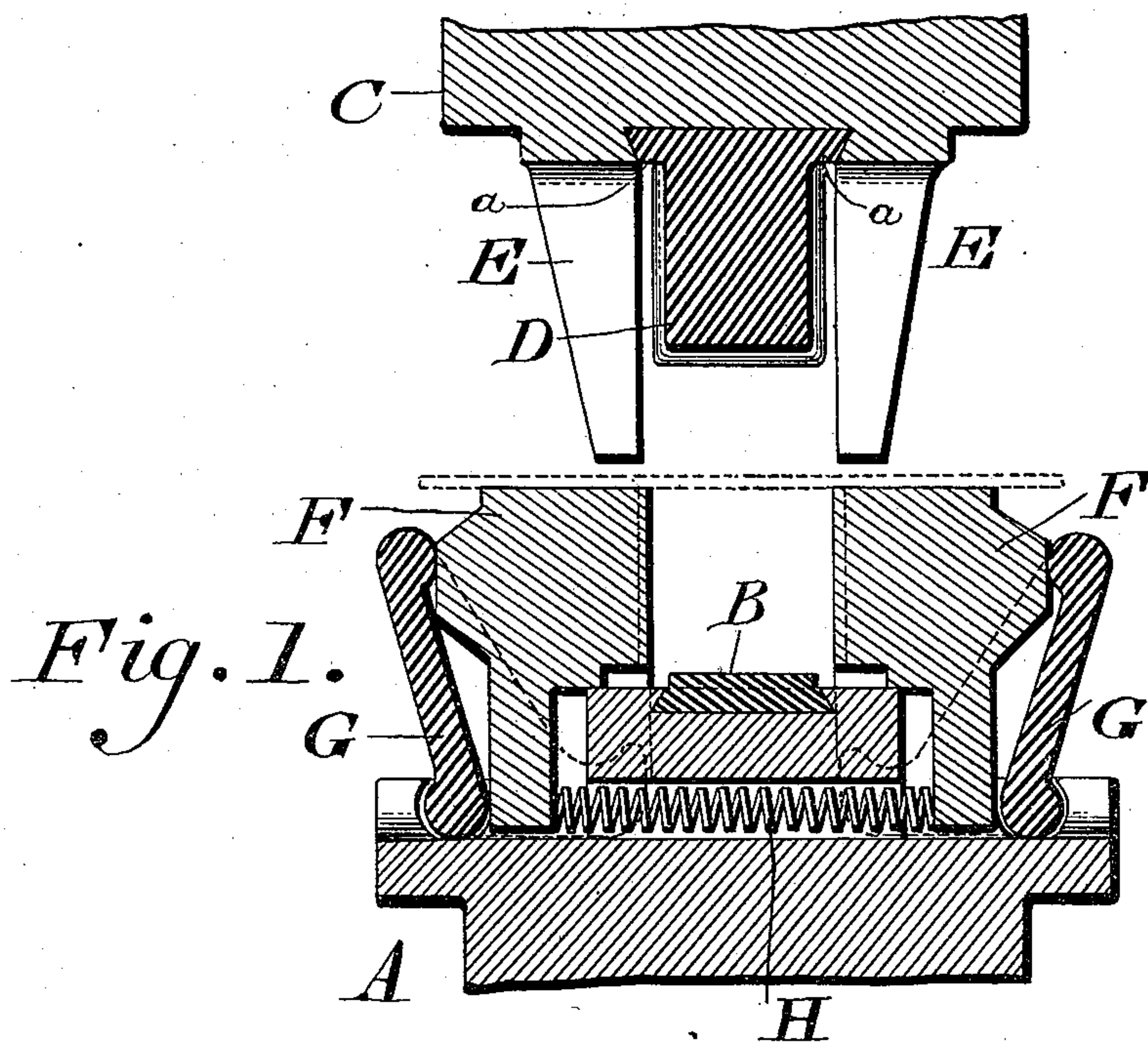
(No Model.)

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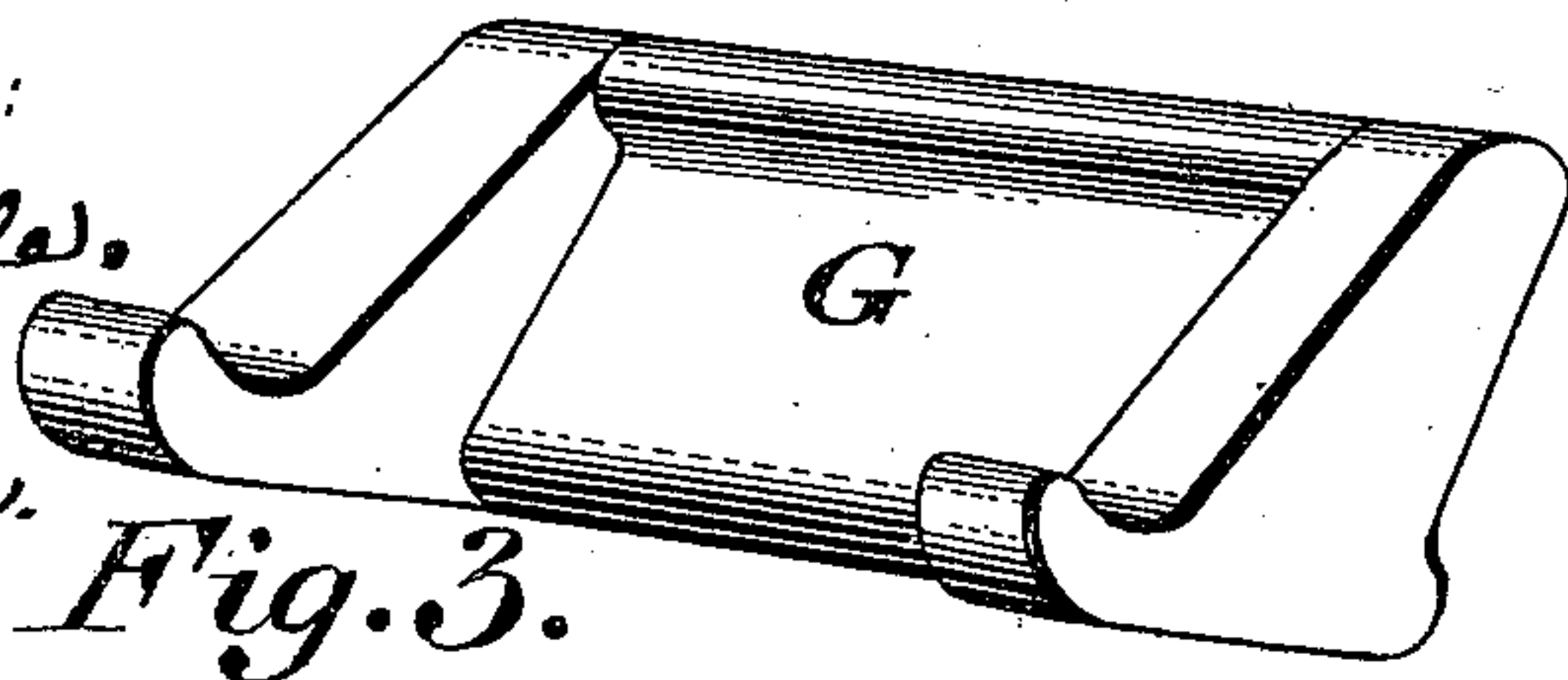
N. H. DAVIS.
DIE FOR MAKING CAR STAKE POCKETS.

No. 504,520.

Patented Sept. 5, 1893.



WITNESSES:
O. F. Nagle,
L. Douville.



INVENTOR
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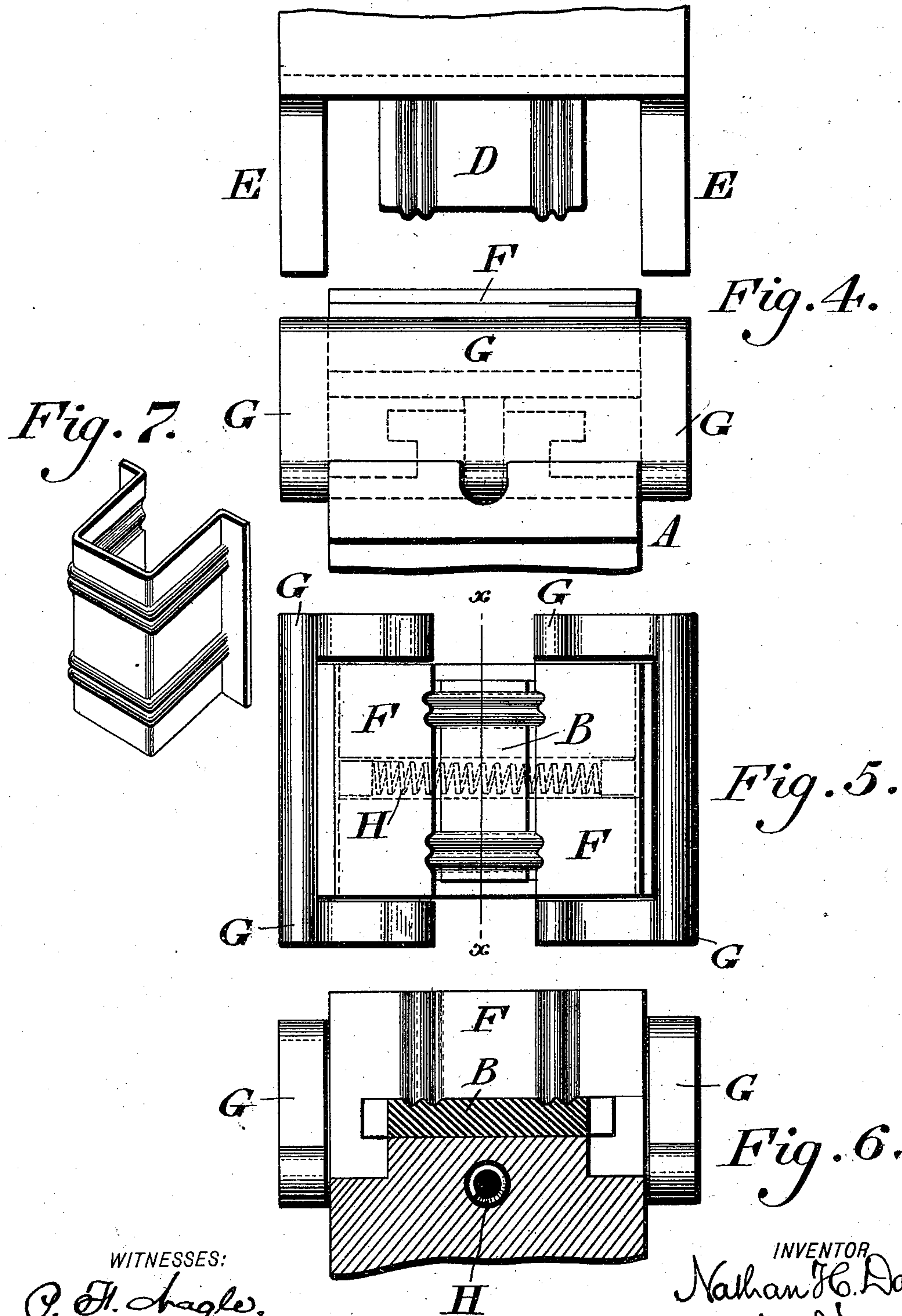
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2 Sheets—Sheet 2.

N. H. DAVIS.
DIE FOR MAKING CAR STAKE POCKETS.

No. 504,520.

Patented Sept. 5, 1893.



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UNITED STATES PATENT OFFICE.

NATHAN H. DAVIS, OF PHILADELPHIA, PENNSYLVANIA.

DIE FOR MAKING CAR-STAKE POCKETS.

SPECIFICATION forming part of Letters Patent No. 504,520, dated September 5, 1893.

Application filed April 15, 1893. Serial No. 470,440. (No model.)

To all whom it may concern:

Be it known that I, NATHAN H. DAVIS, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Dies for Manufacturing Car-Stake Pockets, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of dies of novel construction and operation for manufacturing car-stake pockets, as will be hereinafter set forth.

Figure 1 represents a vertical section of dies embodying my invention. Fig. 2 represents a side elevation thereof. Fig. 3 represents a perspective view of one of the elbow levers or crank arms which are adapted to operate the side dies. Fig. 4 represents a side elevation at a right angle to Fig. 1. Fig. 5 represents a top or plan view of the lower dies and adjacent parts. Fig. 6 represents a vertical section on line *x, x*, Fig. 5. Fig. 7 represents a perspective view of a car stake pocket as manufactured.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings: A designates a bed on the central portion of which is the bottom die B.

C designates a head from which depend the upper die D and the legs E, aside of the same.

Supported on the bed A are the side dies F, it being noticed that the upper die D is adapted to enter between the side dies F, as it advances toward the bottom die B, see Figs. 1 and 2. The dies F have lateral motion so as to move toward and from each other, and they are engaged by the upper limbs of elbow or crank levers G, while the legs E when lowered are adapted to strike the lower limbs of said levers, and thereby cause the upper limbs thereof to force the side dies F toward each other.

In the bed A is a spring H, whose ends bear against the side dies F for opening the same, or forcing them apart, and causing them and the levers G to assume their nor-

mal positions. The faces of the dies B, D, and F are grooved or recessed, in order to crimp the pocket, as shown in Fig. 7.

The operation is as follows: A piece of metal of proper length and width is placed on the top of the side dies F, and the head C is lowered, whereby the die D strikes said plate and bends the same into somewhat U-shape. The legs E then reach the lower limbs of the levers G, and depress the same, whereby their upper ends move inwardly, and thus complete the shape of the pocket, it being noticed that the end portions of the plate remaining above and on the dies F are held between the same and the horizontal part *a* of the die D, and are thereby formed or converted into flanges at right angles to the sides of the pocket for the purpose of connecting the pocket with a car. Owing to the ribs or tongues on the faces of the dies, crimps or corrugations are imparted to the pocket for strengthening purposes. When the head rises, the die D and legs E are carried upwardly by the same, and as the levers G are relieved of the legs E, the spring H separates the dies F, and restores the same and the lever G to their normal positions. The pocket as formed may now be removed and another plate or blank placed on the die F, after which the upper die again descends, when the subsequent operations are similar to those hereinbefore set forth.

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

1. A bed having a bottom die and movable side dies thereon, levers mounted on said bed, and a restoring spring bearing against said side dies, said levers being adapted to be engaged by projections on the head of the upper die, whereby said levers force in or close the side dies, substantially as described.

2. A head provided with an upper die, and depending legs, and a bed having lower and side dies and crank levers, said legs being adapted when the head is lowered to engage with said levers, whereby the latter force in or close the side dies, substantially as described.

3. A bed with a stationary bottom die, laterally-movable side dies, a head having a depending upper die, and legs aside of the same, elbow levers adapted to be operated
5 by the downward movement of said head so as to move said side dies toward each other, and a spring for moving said side dies away

from each other, said parts being combined substantially as described.

NATHAN H. DAVIS.

Witnesses:

JOHN A. WIEDERSHEIM,
R. H. GRAESER.