

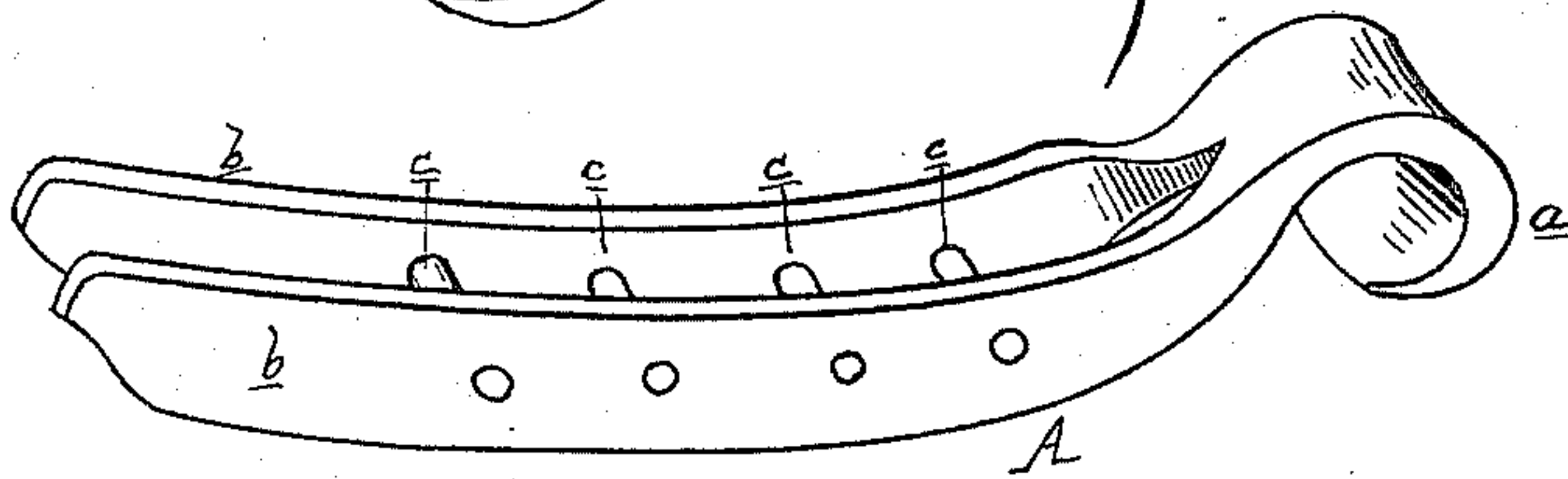
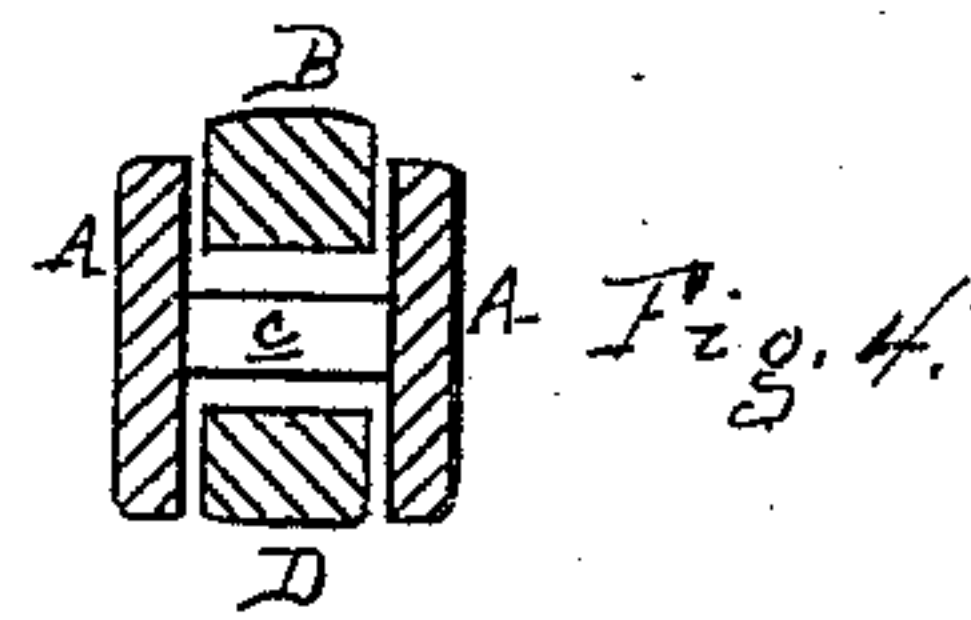
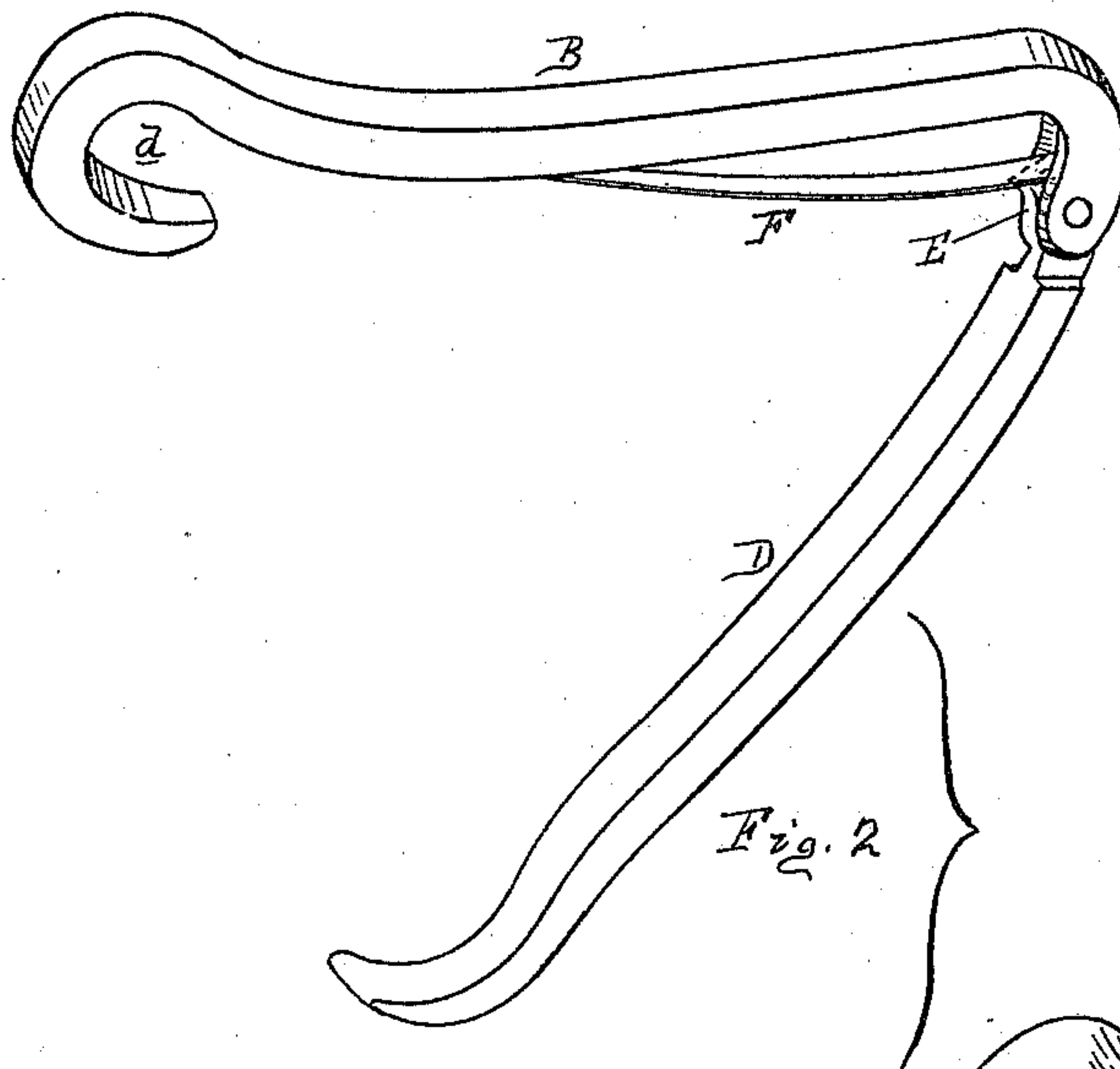
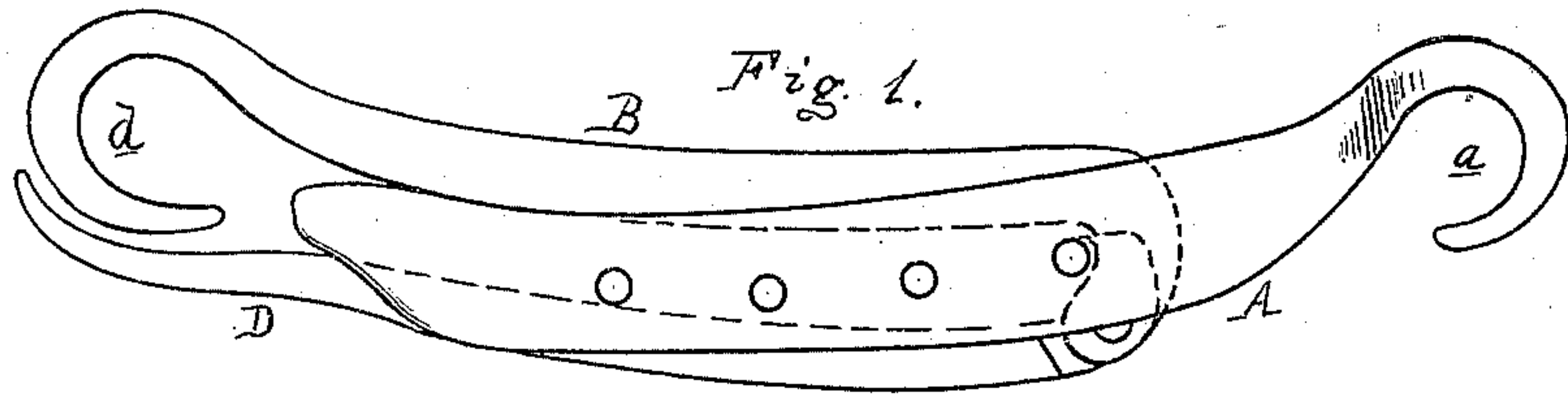
(No Model.)

A. L. GEER.

METALLIC HAME FASTENER.

No. 341,743.

Patented May 11, 1886.



Attest:
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UNITED STATES PATENT OFFICE.

ADELBERT L. GEER, OF PLYMOUTH, MICHIGAN.

METALLIC HAME-FASTENER.

SPECIFICATION forming part of Letters Patent No. 341,743, dated May 11, 1886.

Application filed February 25, 1886. Serial No. 193,140. (No model.)

To all whom it may concern:

Be it known that I, ADELBERT L. GEER, of Plymouth, in the county of Wayne and State of Michigan, have invented new and useful
5 Improvements in Metallic Hame-Straps; and I do hereby that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

10 This invention relates to certain new and novel improvements in hame-straps; and the invention consists in the peculiar construction, arrangement, and combination of the parts, all as more fully hereinafter set forth.

15 Figure 1 is a side elevation. Fig. 2 is a perspective view of the two parts of my device detached from each other. Fig. 3 is a central longitudinal section of Fig. 1. Fig. 4 is a cross-section of Fig. 1.

20 In the accompanying drawings, which form a part of this specification, A represents one portion of my improved hame-strap, preferably made of malleable iron, and provided with a hook, *a*, by means of which it is attached to
25 the hame. The body of this iron A is bifurcated longitudinally, as shown, forming side bars, *b*, through which pins *c* are rigidly secured at or about equal distances apart.

B represents the other or male portion of
30 my improved device, which is preferably provided with a hook, *d*, upon one end for securing it to its respective hame. The opposite end of this portion B is slightly hooked, as shown, and is bifurcated, having pivotally se-
35 cured in such bifurcation a lever, D, the short arm of which terminates in a hook-head, E, with a flattened surface, *e*.

F is a spring, which is secured at one end to the portion B, its free end overlapping the
40 head E of the lever D.

In practice, the two parts of my device being secured to the hames, when it is desired to

close the hames upon the collar, the lever C is inserted behind the proper pin, *c*, of the part A, and is then drawn upwardly into the posi- 45 tion shown in Figs. 1 and 3, the end of the spring bearing down upon the flattened surface *e* of the head of the lever. It will be noticed that in this position the strain caused by the expanding of the collar and hames in drawing 50 is brought upon the hook of the head E, which is above the fulcrum of the lever, and hence the greater the strain the more tightly the lever is held in its closed position.

The mere function of the spring is, when the 55 hames are not drawn tightly together, to prevent the lever D from dropping down and allowing the parts to disengage. Therefore it will be seen that if care is taken to properly tighten the hames, so that the expansion of 60 the collar will be sufficient to keep the parts in engagement, this spring F may be omitted without departing from the spirit of my invention.

What I claim as my invention is— 65

1. In a metallic hame strap, the combination of the parts A, B, and D, the latter being provided with a hook-head, E, with the spring F, all constructed, arranged, and operating 70 substantially in the manner and for the purposes specified.

2. In a metallic hame-strap, the combination, with the part A, provided with a plurality of pins, *c*, of the part B, lever D, pivoted thereto, the short arm of said lever terminating in a hook-head, E, having flattened surface 75 *e*, and the spring F, secured to said part B and bearing on said flattened surface, substantially as and for the purpose specified.

ADELBERT L. GEER.

Witnesses:

H. S. SPRAGUE,
EDMOND SCULLY.