

(No Model.)

C. F. ALDRICH.
SCRAPER.

No. 501,858.

Patented July 18, 1893.

Fig. 1.

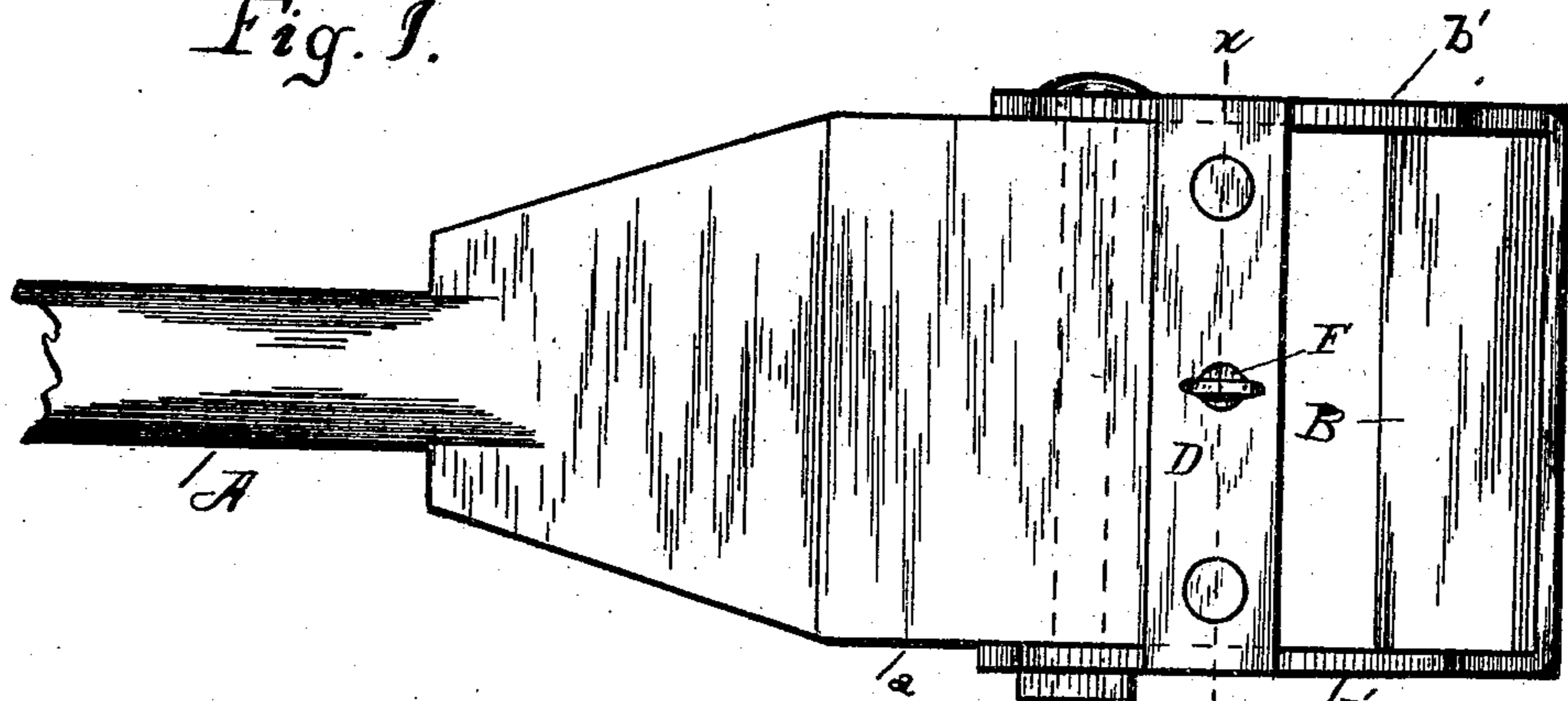


Fig. 2.

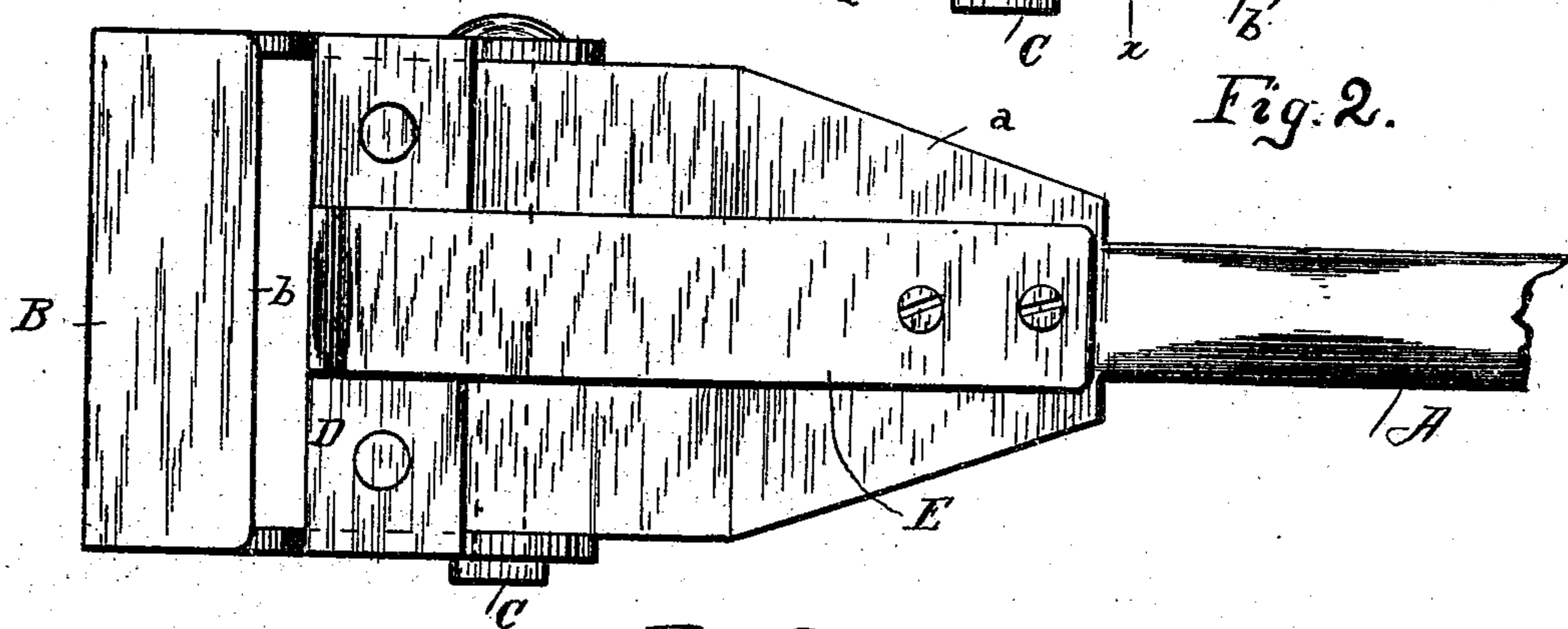


Fig. 3.

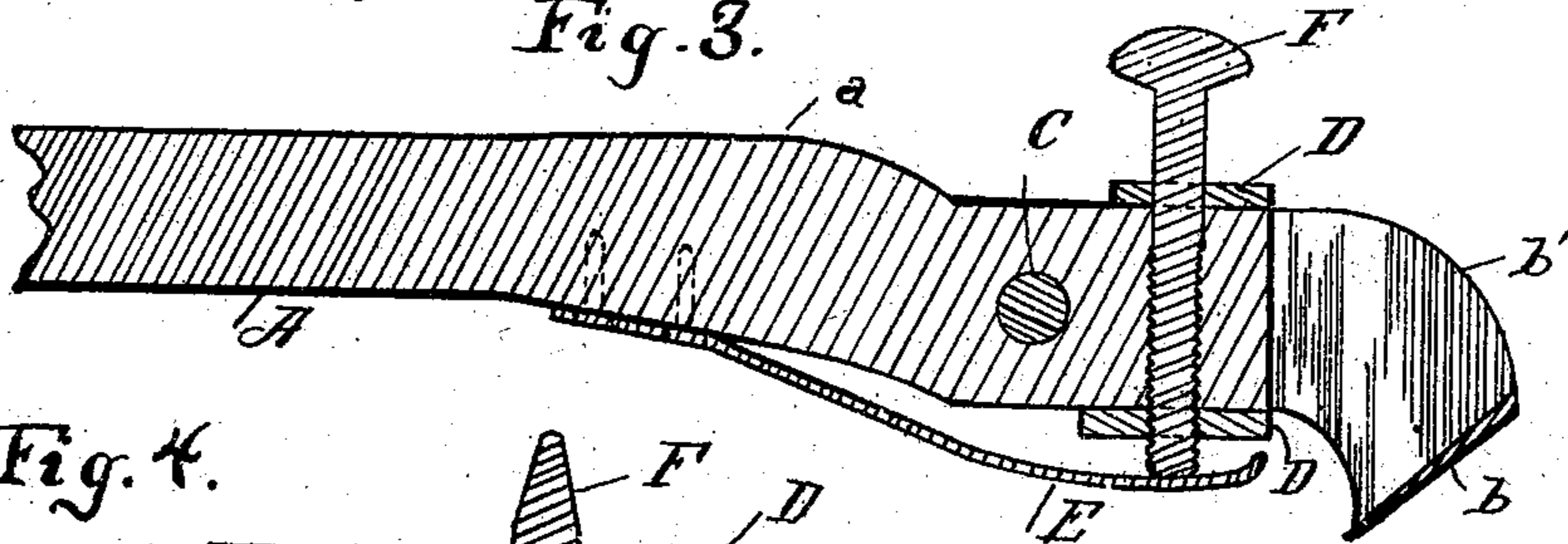
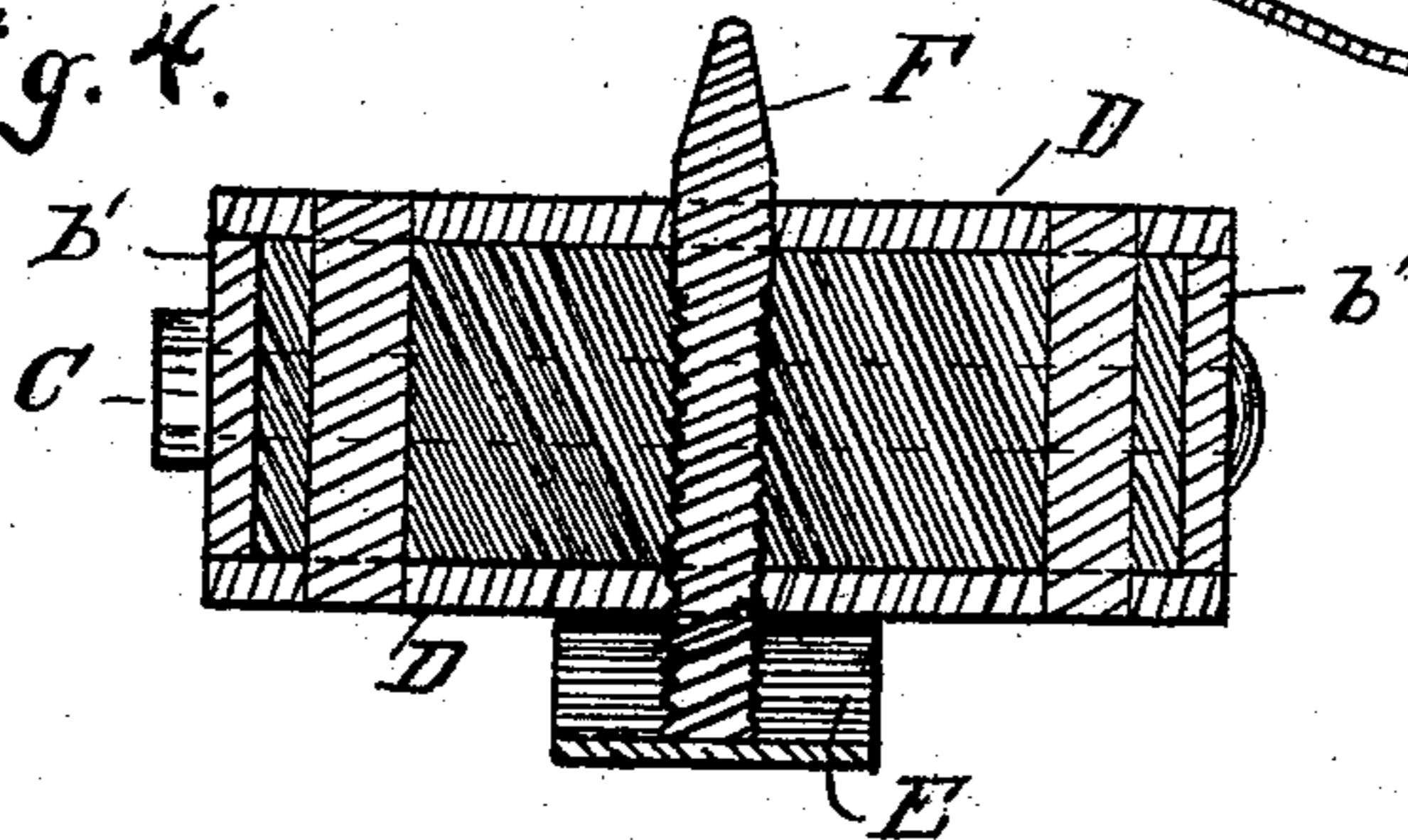


Fig. 4.



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SCRAPER.

SPECIFICATION forming part of Letters Patent No. 501,858, dated July 18, 1893.

Application filed July 25, 1891. Serial No. 400,680. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. ALDRICH, a citizen of the United States, residing at Pittsburg, in the county of Coos and State of New Hampshire, have invented certain new and useful Improvements in Scrapers; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention has relation to scrapers, particularly designed for removing the bark from logs, and the like. In heavily wooded sections where the cutting of trees forms an important industry, it is customary for the logmen to hew the bark with an ax, in order to present a smooth surface, so that the logs may be readily transported over the snowy or frozen surface of the ground, without presenting rough or uneven projections to retard progress. The above method, is found, in practice, to present many obstacles, as, for instance, the loss of much valuable time, not to mention the labor necessarily involved in the operation.

The principal object, therefore, contemplated by me is to accomplish in a simple and efficient manner the same function as that described with reference to the employment of an ax, without at the same time, encountering the difficulties attendant upon its use.

With the above object, and others, in view, the invention consists in the improved construction and combination of parts as hereinafter more fully set forth and described.

In the accompanying drawings, Figure 1 is a plan view of the device. Fig. 2 is an inverted plan view. Fig. 3 is a longitudinal section; and Fig. 4 is a cross section on the line $x-x$ Fig. 1.

Like letters of reference refer to like parts throughout the several views.

Referring to the drawings the letter A indicates the shank or handle of my improved device, having a head, a , formed upon its inner end; and B the cutting implement. This latter consists of a transverse blade, b , its un-

der edge constituting the cutting surface, and two curved rearwardly-extending arms, b' , b' , which are secured at their extremities to the head of the shank by a transverse bolt, C, in such a manner as to leave the proper amount of space between said head and said transverse portion of the cutting implement. It will be noticed that by curving the rearwardly-extending arms, b' , b' , the cutting edge is necessarily projected below the plane of the under surface of the shank and its head, so that said cutting edge may freely engage the log or wood to be operated upon, without the other portions of the device contacting. The cutting implement is further maintained in place by upper and lower transverse plates, D, D, which further serve to reinforce and strengthen the head, a , which necessarily is subjected to considerable strain. These plates bear upon the opposite sides of the extremity of the head of the shank, and also embrace the rearwardly-extending arms of the cutting implement, and may be secured in place in any desirable manner, as, for instance, by the employment of vertical rivets or bolts.

Secured at one end to the rear portion of the under surface of the head, a , is a spring plate, E, the forward free end thereof being slightly upturned.

The letter F indicates a set-screw, which works through registering screw-threaded perforations in the head and its reinforcing plates. The lower end of this screw is adapted to bear against the spring plate, E, and, it is obvious, that it, when adjusted, may permit of the depression or elevation of said spring plate.

In operating my improved device all that is necessary is simply to pull the cutting edge over the log to be hewn, and the bark is thus readily and quickly removed. By adjusting the set-screw, the distance between the cutting edge and the plate, E, may be varied, whereby just the thickness desired may be removed.

In addition to the above, the device is exceedingly simple in construction and operation, and inexpensive of production.

While I have described my invention as particularly applicable to the removal of bark

from trees, still it is obvious that it will be found of considerable utility in various other uses, as, for instance, a scraper for the erasure of lettering from boxes, and analogous purposes.

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

In a scraper, the combination, of a shank formed or provided at its forward end with an enlarged portion or head, a cutting implement consisting of a transverse cutting blade and rearwardly extending curved arms se-

cured to the enlarged portion or head, reinforcing plates, a spring plate, and a set-screw passing through registering perforations in the head and reinforcing plates, and adapted to elevate or depress the free end of the spring, substantially as set forth. 15

In testimony whereof I affix my signature in presence of two witnesses. 20

CHARLES F. ALDRICH.

Witnesses:

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