

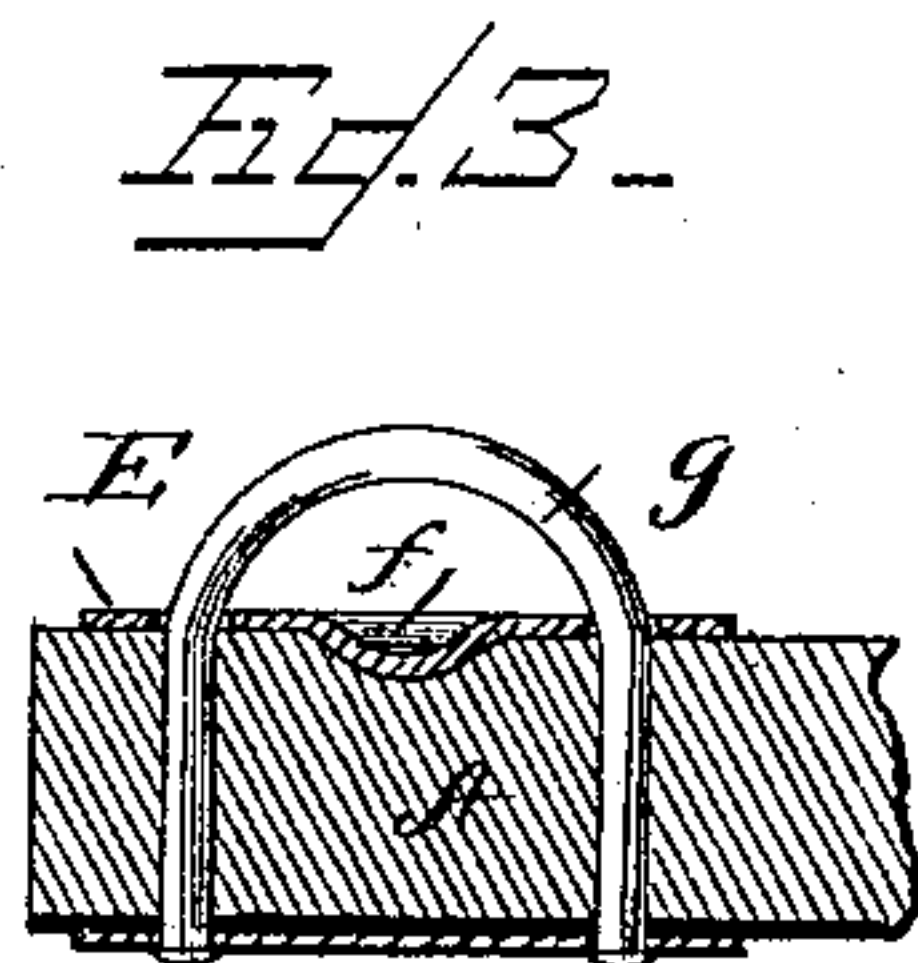
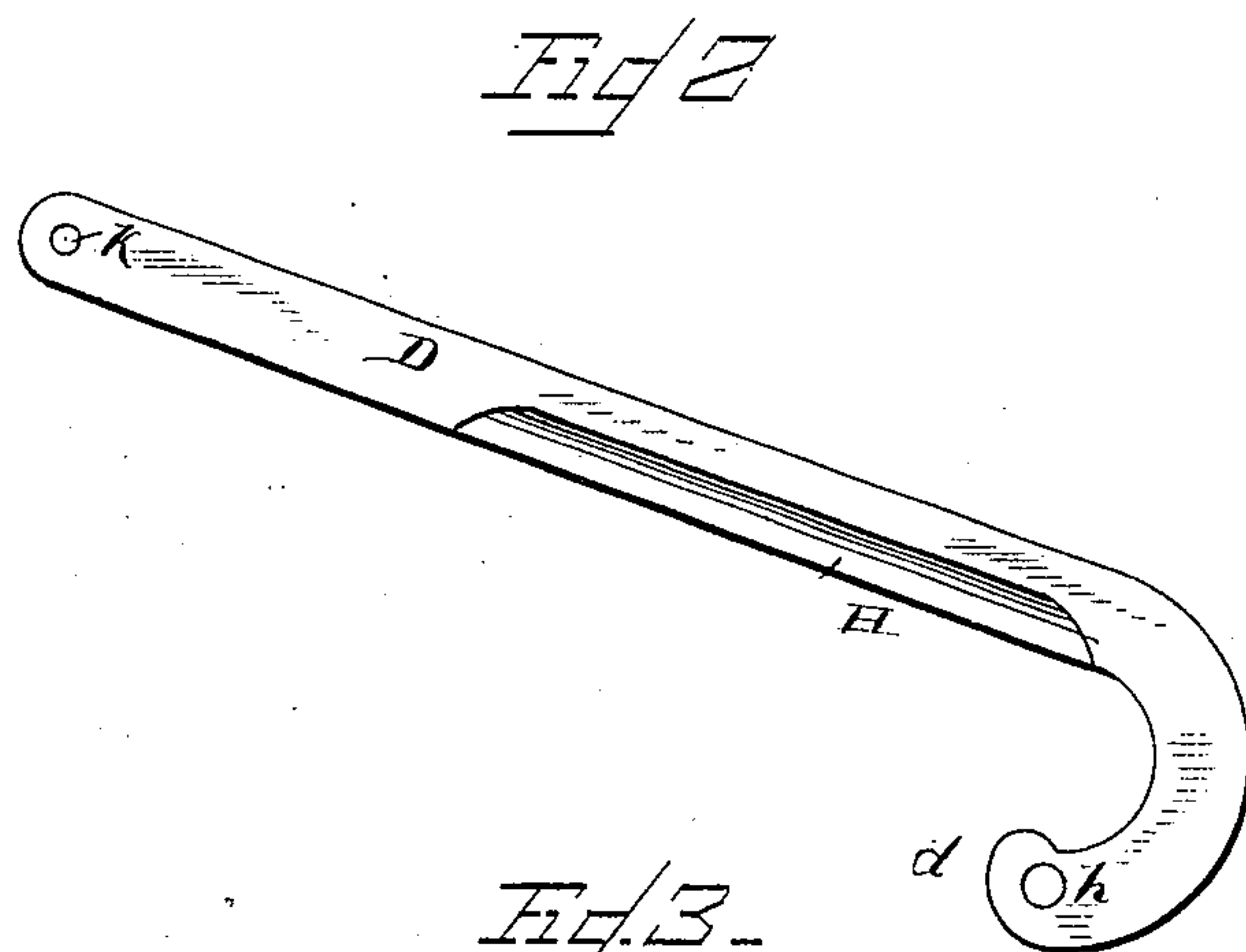
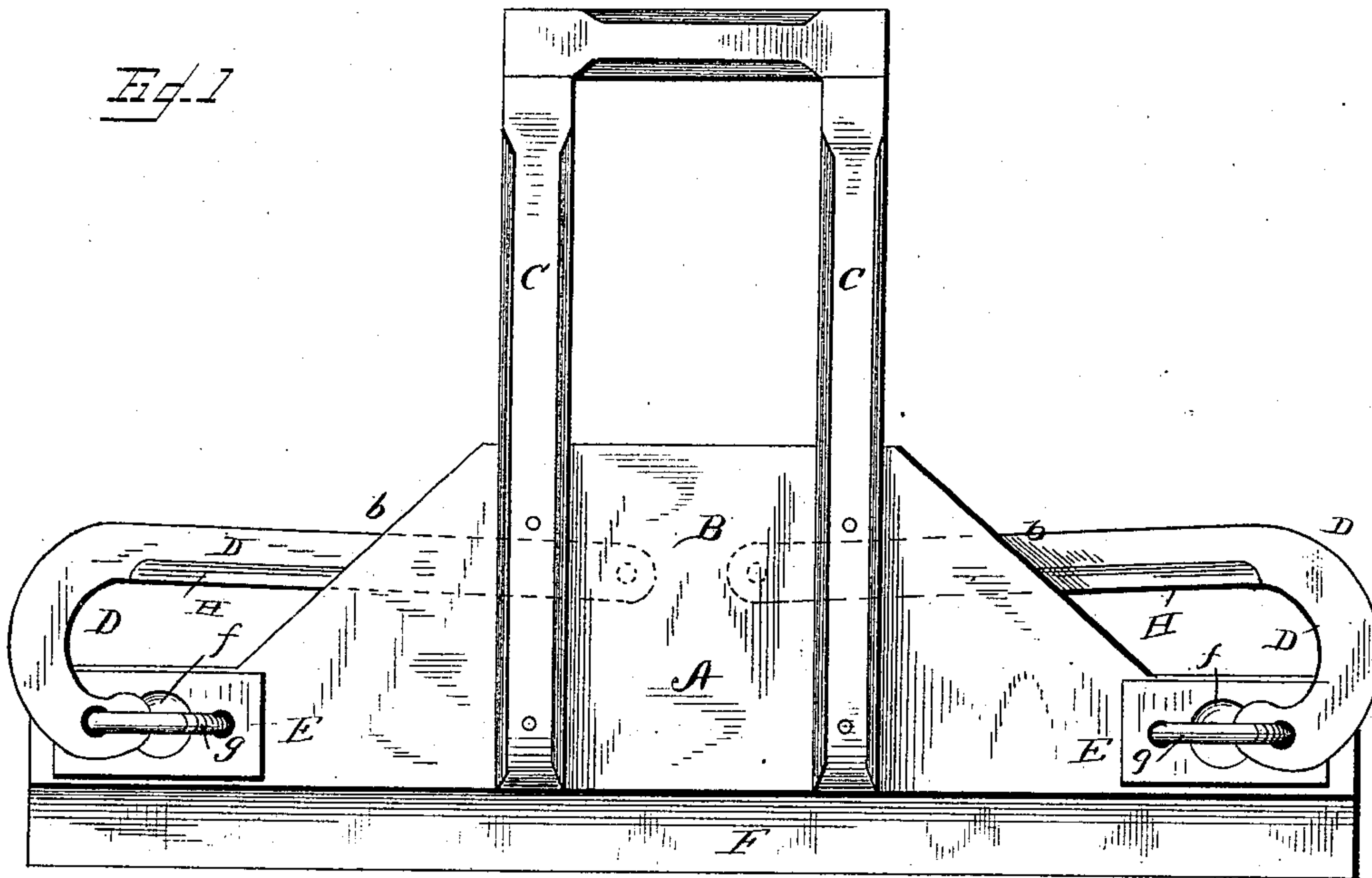
(No Model.)

C. E. OUTHWAITE.

EARTH SCRAPER.

No. 308,372.

Patented Nov. 25, 1884.



WITNESSES.

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EARTH-SCRAPER.

SPECIFICATION forming part of Letters Patent No. 308,372, dated November 25, 1884.

Application filed January 14, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. OUTHWAITE, a citizen of the United States, residing at Huron, in the county of Wayne and in the State of Michigan, have invented new and useful Improvements in Earth-Scrapers, of which the following is a specification.

My improvements relate to earth-scrapers the body of which is a plank of wood; and the objects of my improvements are, first, to so change the form of said earth-scraper as formerly used as to make it easy to handle when in use, and to adapt it to use in connection with my improved draw-bars; second, by the use of my improved draw-bars and the formation of an edge on the lower side of the body of said scraper-body, at an exact angle of forty-five degrees with the face side of said scraper-body, to reduce the power required to move said scraper when loaded, as well as the labor of handling said scraper when in use, to a minimum; third, by the use of a cutting-edge formed on the under side of said draw-bars, to divide sods or other like obstructions when they interfere with the use of said scraper. I attain these objects by means of mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a rear view of the entire machine. Fig. 2 is a side view of my improved draw-bar disconnected from said earth-scraper. Fig. 3 is a partial transverse section taken through one of the staples.

Similar letters refer to similar parts in all the figures.

The body of my improved earth-scraper is represented by A, Fig. 1. It is composed of a wood plank from three to five feet long, eight to twelve inches wide, and two inches thick. In the middle of the upper side of A, I attach a board to the handle-supports C C, as shown by B, the upper side of which is shown by *b b*. The lower edge of A is beveled backward from the front or face side of A to an angle of exactly forty-five degrees, and the front side should be faced at the lower edge with a strip of iron or steel about four inches wide by one-eighth inch thick. Said bevel is shown by shaded lines F, Fig. 1.

My improved draw-bars D, Fig. 2, are made of iron, about three feet long by two inches wide by half an inch thick, one end of which bar is bent into a semicircle through its widest diameter, and to have a clear opening on the inside of eight inches. The end *d* of the draw-bar, Fig. 2, is nicely rounded to fit loosely into a socket one-half inch deep by two inches diameter, (shown at *f*, Fig. 1.) Four inches from the end *d*, Fig. 2, an elliptical hole, *h*, Fig. 2, one inch by two inches, is made through said draw-bar for the passage of a staple, *g*, Fig. 1. Through the straight end of said draw-bar a hole is made, (shown at *k*, Fig. 2,) for the purpose of attaching a team. Face-plates E, Fig. 1, four inches by eight inches by half an inch thick, of iron, are firmly fastened to the back side of said scraper-body, as shown in Fig. 1. In the center of each of said face-plates a socket or depression is formed one-half inch deep by two inches diameter, for the reception of the end of the draw-bar *d*, Fig. 2, when said scraper is put in position for work, (shown at *f*, Fig. 1.) A staple made of three-quarter-inch round bar-iron with sides four inches long is passed through opening *h*, Fig. 2, and firmly fastened horizontally into said face-plates, as shown at *g*, Fig. 1. Said face-plates must be placed so that when the draw-bars D are placed in position over the top of said scraper-body they will clear it by one inch space. On the under side of said draw-bar D, I form a cutting-edge, (shown at H, Fig. 2.) It is about eighteen inches long, and begins just over the top of the scraper-body and runs forward far enough to cut any turf thrown up in loading the scraper.

My improved handle for said earth-scraper is formed of two uprights, two inches thick, three inches wide, and about three feet long, (shown at C C, Fig. 1.) Said uprights are firmly fastened to the back side of A, Fig. 1, as shown, and a cross-bar, I, Fig. 1, two inches square and three to four feet long, is firmly fastened to the tops of said uprights C C, as shown in Fig. 1. Said uprights C C serve also as a support for the board B, Fig. 1, as above described.

I am aware that earth-scrapers made of

wooden plank have been in use for a long time. I therefore do not claim such a combination, broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the scraper-body A, the board B, and the draw-bars D D, having cutting-edges, as described, and the face-plates E E and stays g, the handles I, and supports
10 C, all arranged substantially as specified.

2. A cutting-edge formed on the under side of draw-bars D, as shown at H, substantially as set forth, and for the purpose specified.

CHARLES E. OUTHWAITE.

Attest:

T. R. CHASE,
F. LINE.