

Knapp & Switzer

Shovel Handle Top

Nº 92,060.

Patented Jun. 29, 1869.

Fig. 1

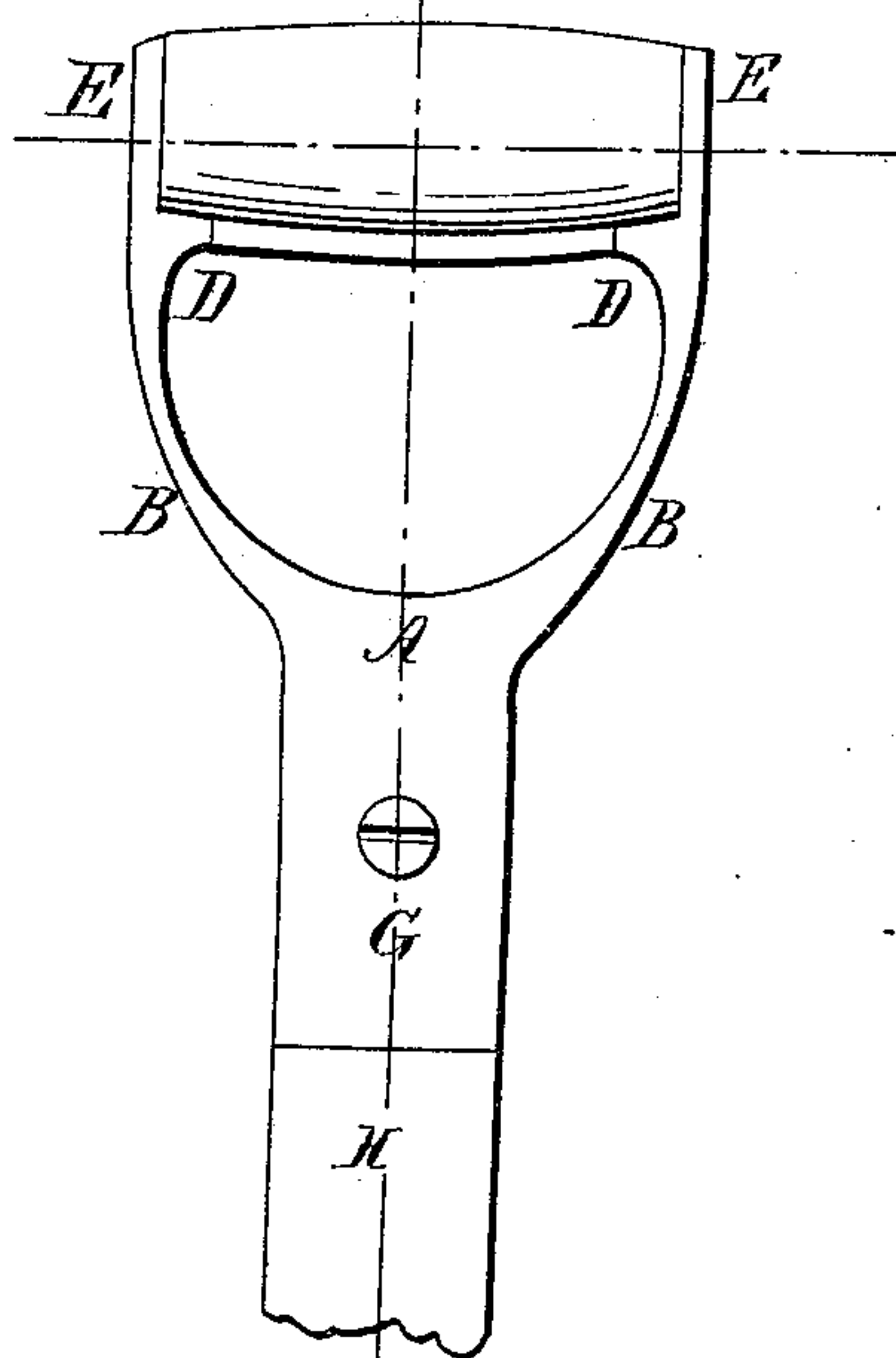


Fig. 2

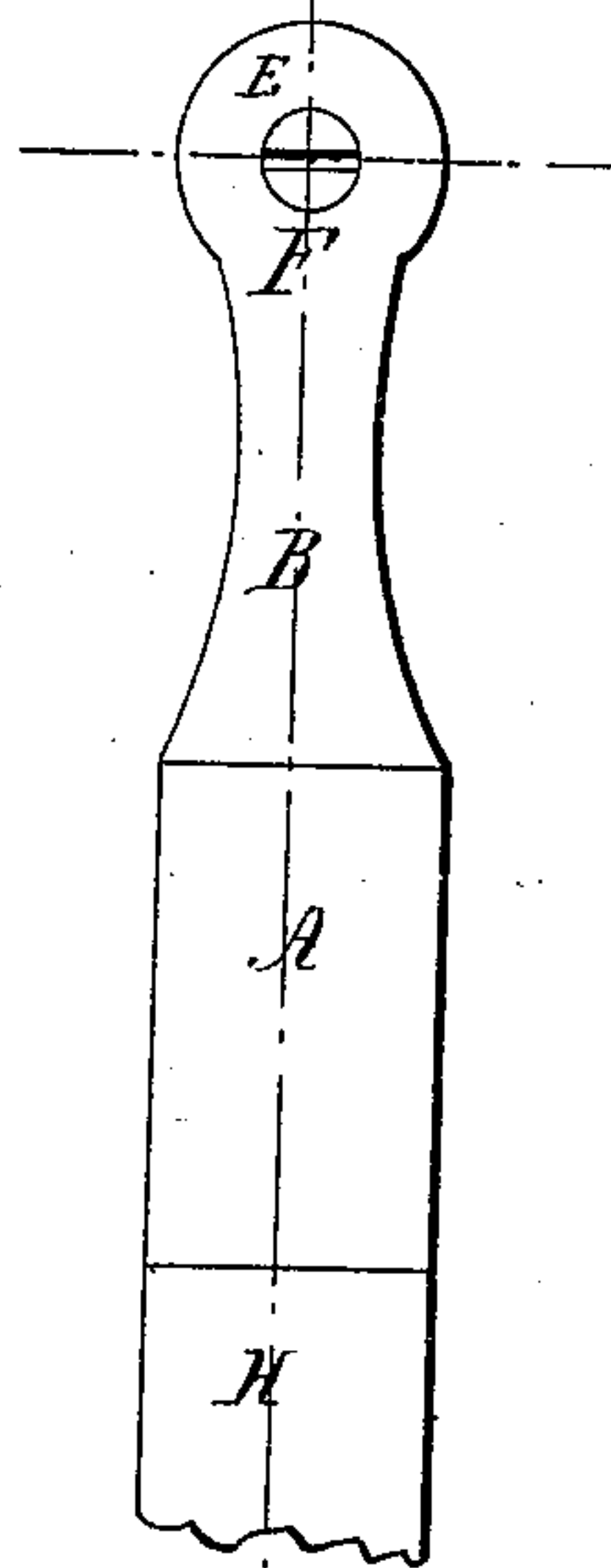


Fig. 5

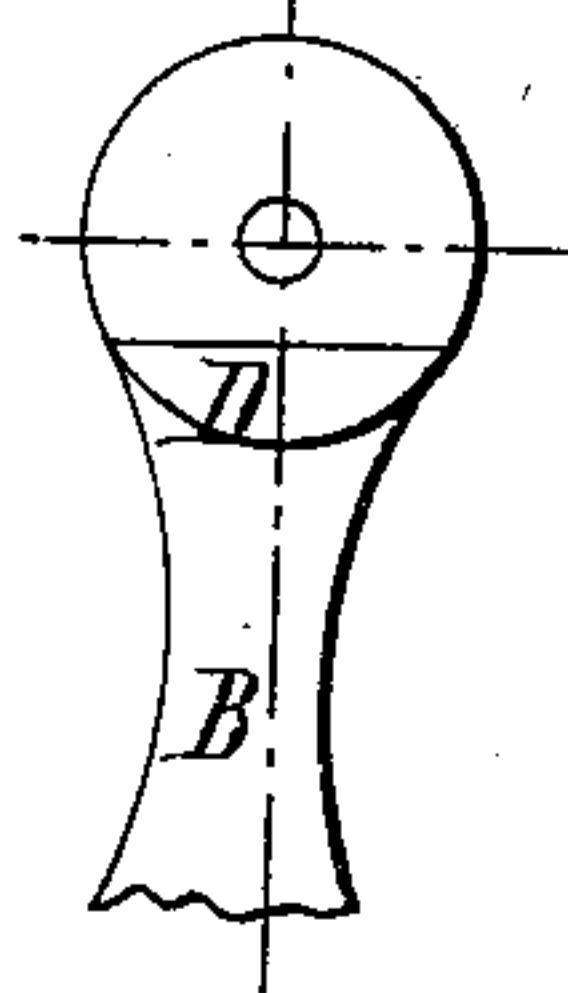


Fig. 3

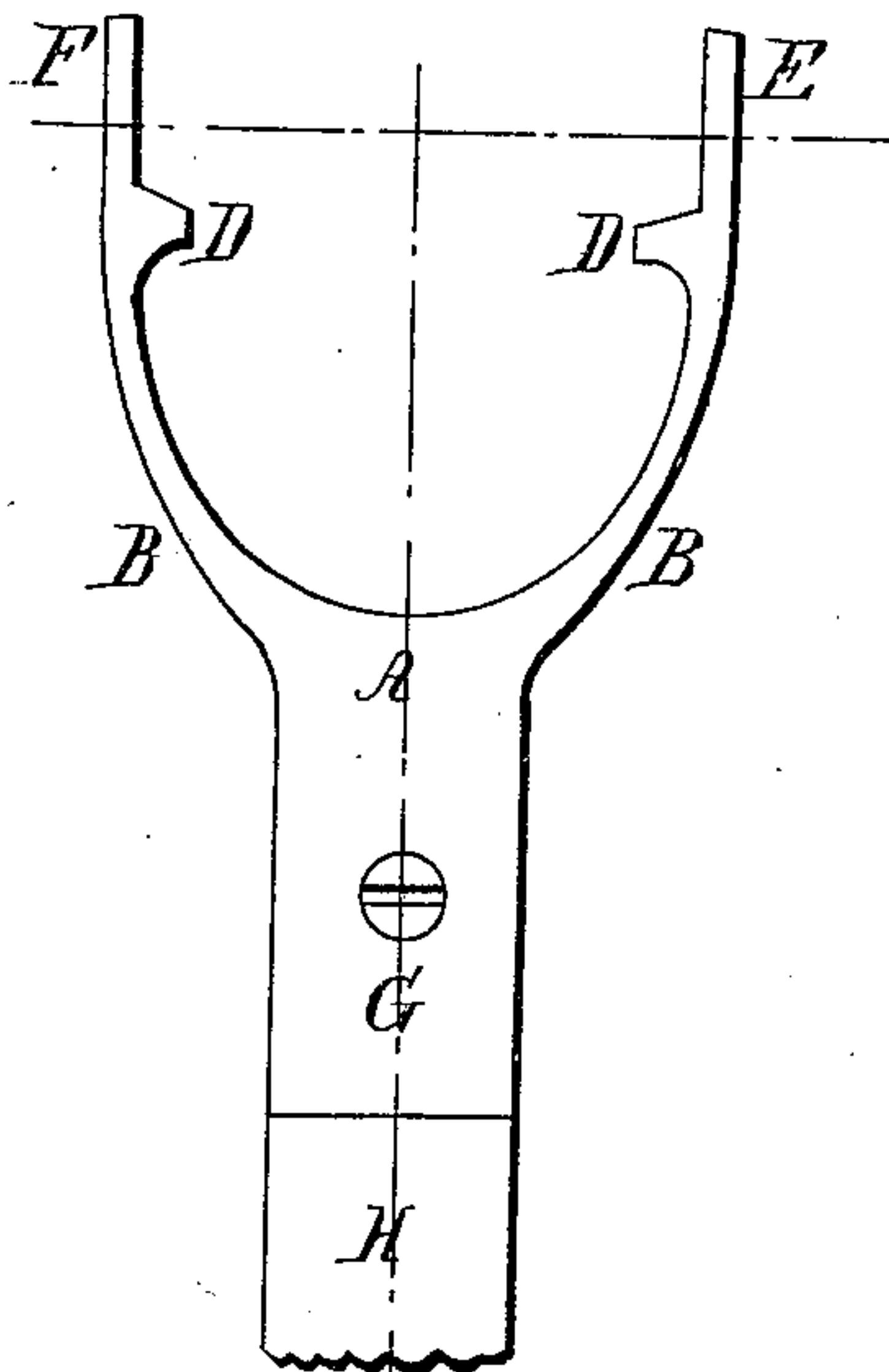


Fig. 4

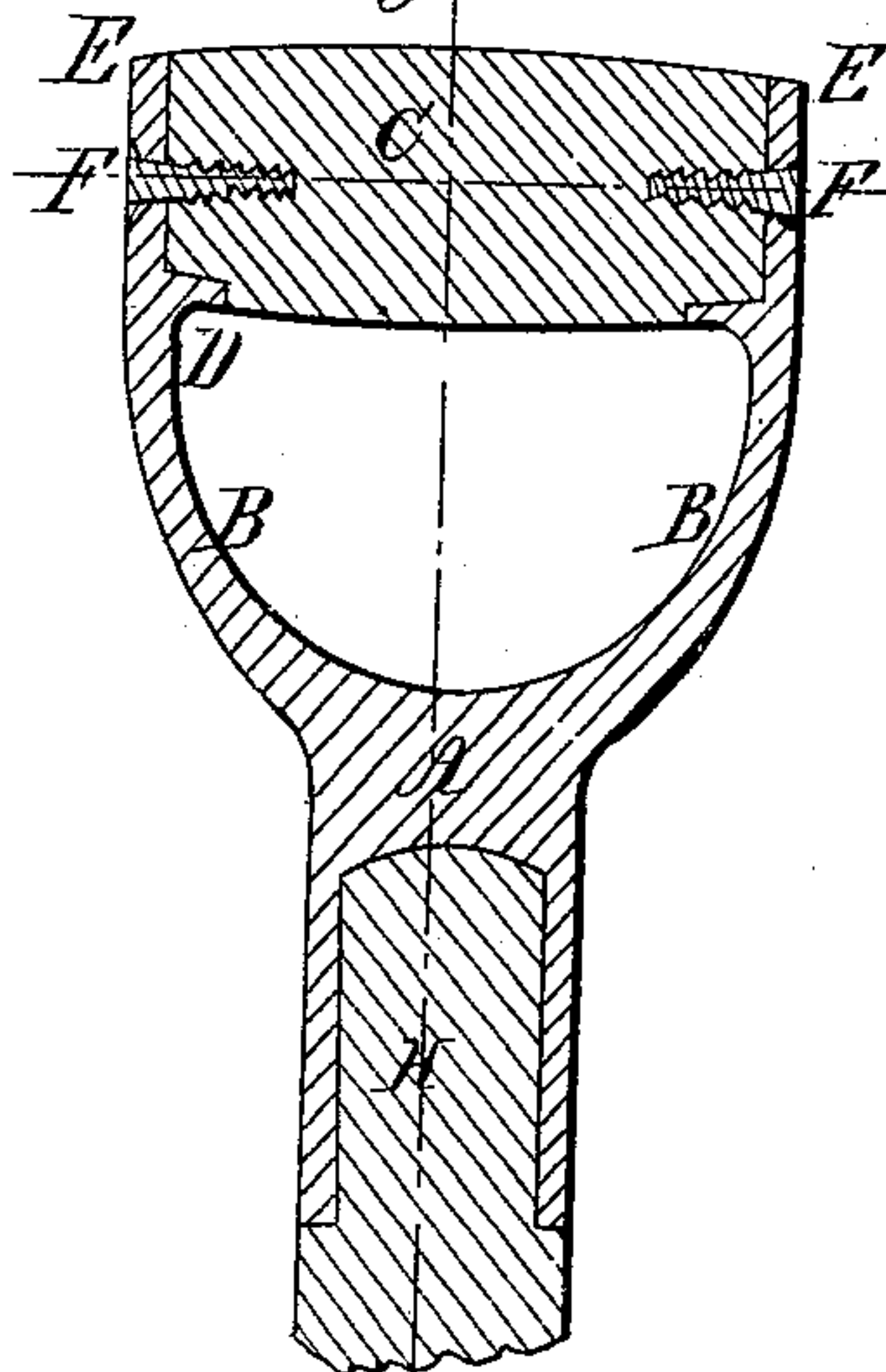
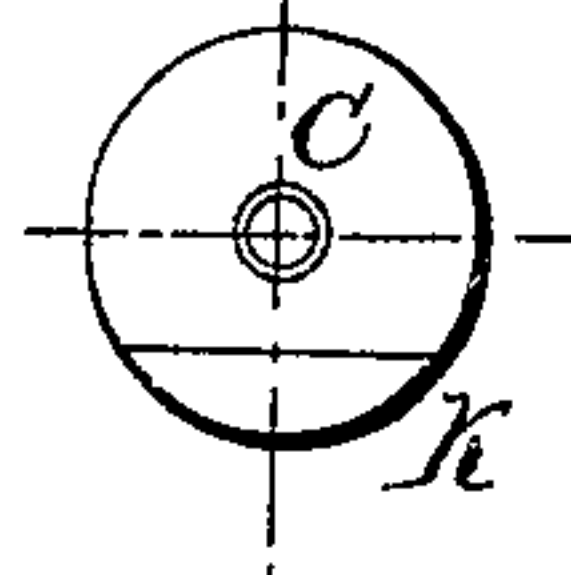


Fig. 6



Witnesses
L. H. Hannonel
A. J. Vandach

Inventors
S. M. Knapp
J. Switzer,
by Job Abbott

United States Patent Office.

S. M. KNAPP AND JOSEPH SWITTER, OF MASSILLON, OHIO.

Letters Patent No. 92,060, dated June 29, 1869.

IMPROVEMENT IN SHOVEL-HANDLE TOPS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, S. M. KNAPP and JOSEPH SWITTER, of Massillon, in the county of Stark, in the State of Ohio, have invented a new and useful Improvement in Shovel-Handle Tops; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, of which drawings—

Figure 1 is a front elevation of our improved handle-top.

Figure 2 is a side view of same.

Figure 3 is front view of handle-top, with cross-bar removed.

Figure 4 is a longitudinal section of handle-top.

Figures 5 and 6 are views of tips of handle-top and end of cross-bar.

Our invention consists in certain improvements in metallic tops for shovel-handles, said improvements consisting in casting lips or flanges on the inside of the arms of the handle-tops, which fit into notches cut in the ends of cross-bar of the handle, and serve to prevent said cross-bar from rotating, as well as to take the strain caused by pressing on the cross-bar in shovelling from the screws, by which said bar is secured between the arms of the handle-top, whereby we render much smaller screws on connections between the cross-bar and the arms of the handle-top available, and avoid the danger of splitting the cross-bar by a downward pressure on the same, or the turning of the cross-bar in the handle-top while shovelling, thus materially increasing the efficiency and durability of the device, and lessening its cost and weight.

To enable others skilled in the art to make and use our invention, we will proceed to describe more fully its construction.

The handle-top is composed of the socket A, in which is secured the handle H, by means of screws or rivet G, and the arms B B, which terminate in the rounded tips E E.

The lips D D are arranged on the arms B B, as shown, and the cross-bar G has the notches *k k* cut in its end, in which the lips D D fit, the cross-bar G being secured between the tips E E by screws F F, as shown in figs. 2 and 4.

The cross-bar C is made of wood, and is so constructed, with respect to the tips E E and lips D D, as to leave a smooth surface on all parts of the top, as fully shown, so that the top is as easy and pleasant for working as the ordinary wooden handle-tops, and is far less liable to split, as well as being more cheaply constructed.

The whole top, consisting of socket A and arms B B, with rounded tips E and inner lips D, is cast in a single piece of common cast or malleable iron, in a manner readily seen.

It is evident that no rotation of the cross-bar C can take place in using this top, and that a light cross-bar will be amply strong to resist the downward pressure on it, as it is supported on the lips D, and hence it is not liable to split at the screws F F, as is the case where no lips are used.

Having thus fully described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

The improved shovel-handle top herein described, composed of the socket A, arms B E, B E, provided with lips D D, cross-bar C, with end-notches *k k*, and retaining-screws F F, or their equivalents, the several parts being constructed, combined, and arranged, substantially as and for the purpose herein specified.

As evidence that we claim the foregoing, we have hereunto set our hands, in presence of two witnesses, this 26th day of March, 1869.

S. M. KNAPP.
JOSEPH SWITTER.

Witnesses:

T. H. SEAMAN,
ISAAC H. BROWN.