

(Model.)

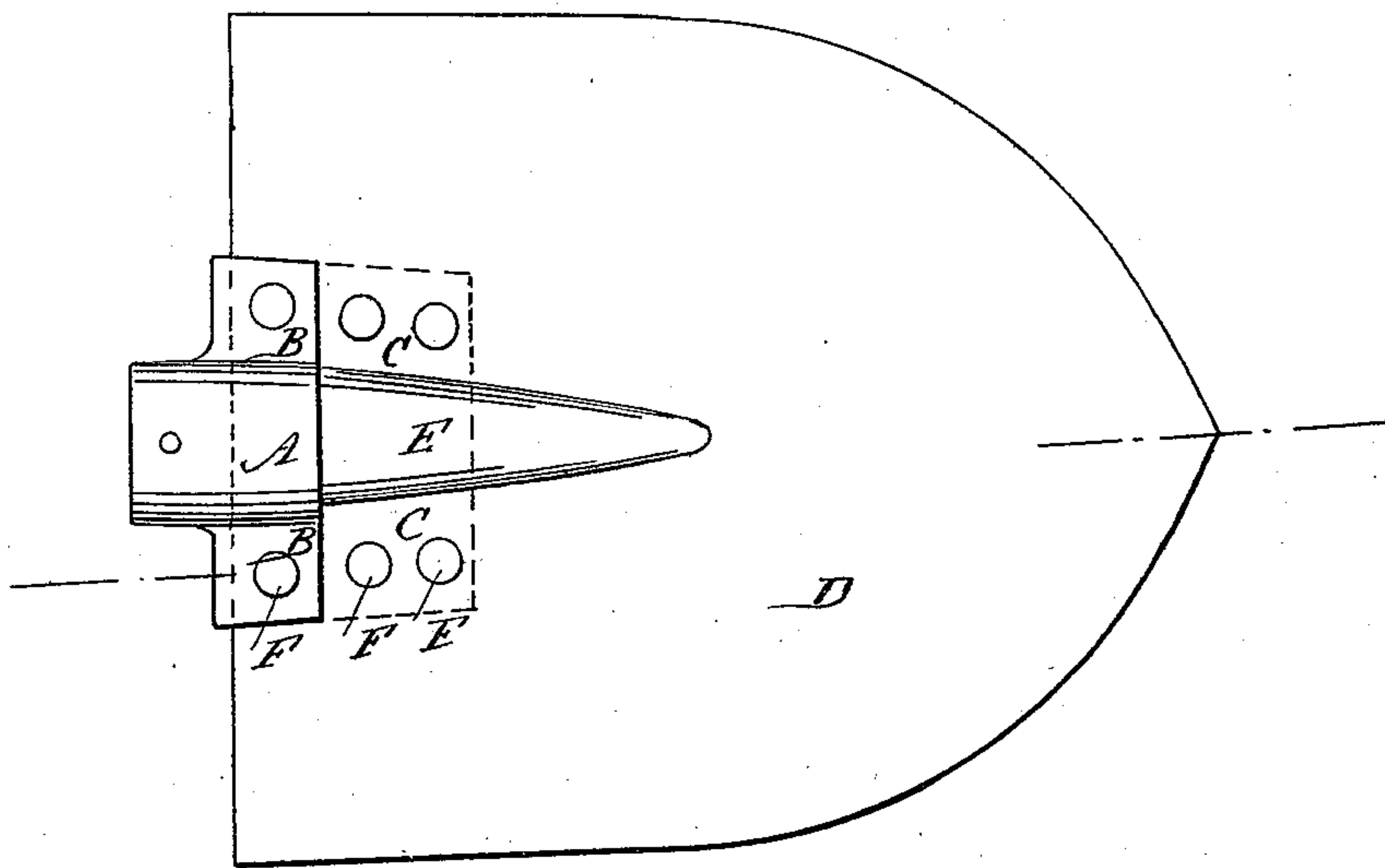
P. W. GROOM.

Handle Socket for Shovels, Spades, and Scoops.

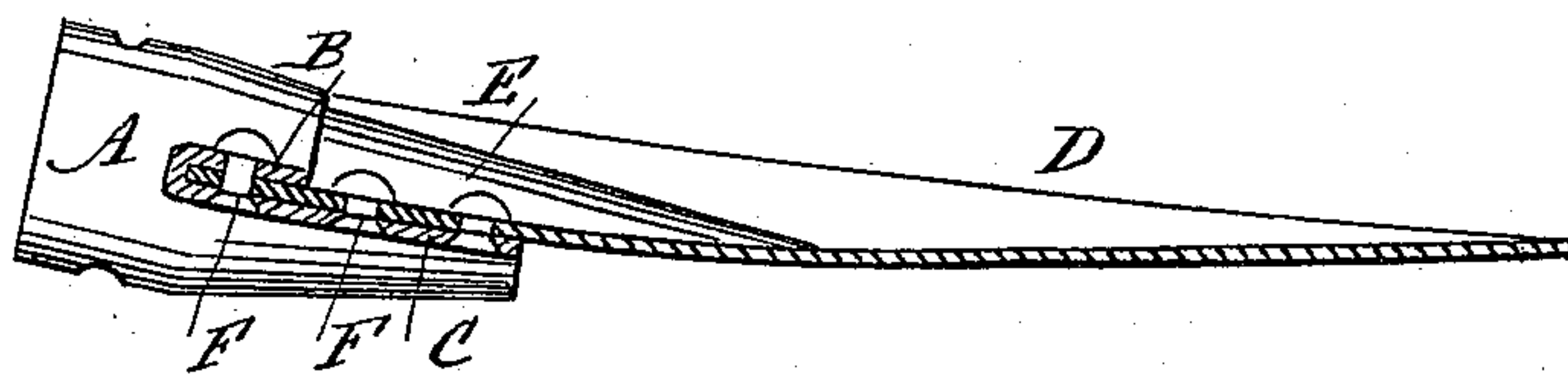
No. 230,003.

Patented July 13, 1880.

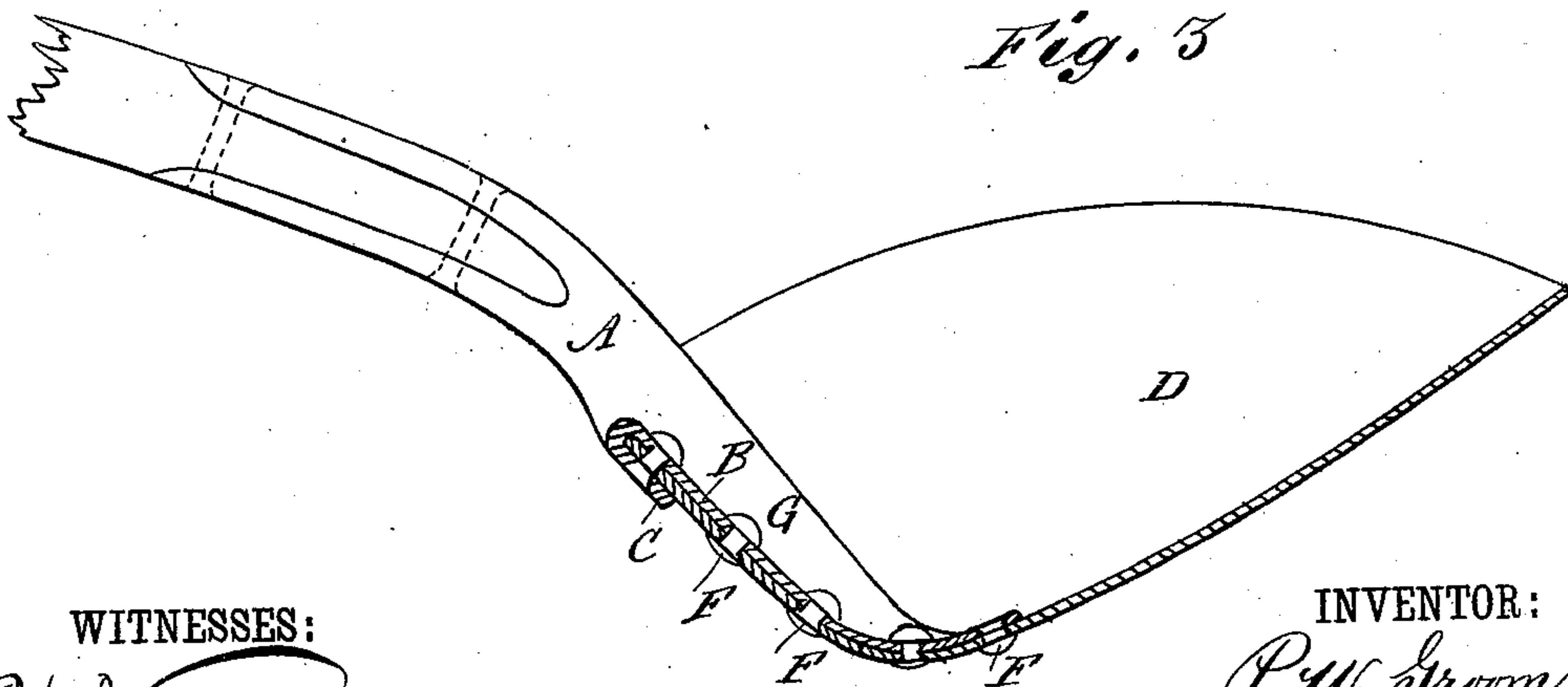
*Fig. 1*



*Fig. 2*



*Fig. 3*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

PATRICK W. GROOM, OF ST. LOUIS, MISSOURI.

## HANDLE-SOCKET FOR SHOVELS, SPADES, AND SCOOPS.

SPECIFICATION forming part of Letters Patent No. 230,003, dated July 13, 1880.

Application filed May 3, 1880. (Model.)

*To all whom it may concern:*

Be it known that I, PATRICK W. GROOM, of the city of St. Louis, State of Missouri, have invented a new and Improved Handle-Socket for Shovels, Spades, and Scoops, of which the following is a specification.

The object of my invention is to provide a new and improved handle-socket strap for shovels, spades, and scoops, which is simple in construction, light, and durable.

The invention consists in combining a flanged socket with a recessed blade, as hereinafter described.

In the accompanying drawings, Figure 1 is a plan view of a collier-shovel provided with my improved handle-socket. Fig. 2 is a longitudinal sectional elevation of the same; and Fig. 3 is a longitudinal sectional view of a scoop provided with my improved handle-socket strap.

Similar letters of reference indicate corresponding parts.

The socket A, which is tapered toward the lower end, is provided with the upper flange or plate, B, and a lower flange or plate, C, extending outward from the opposite sides of said socket, which plates are connected with each other at their upper edges, as shown in Fig. 2.

The space between the upper and the lower plate is just sufficient to receive the blade D of a shovel, spade, or scoop. The blade D is pro-

vided with a depression, E, to receive the end of a handle, and is fastened to the plates B C by means of the rivets F. In this case the lower plates, C, are longer than the upper plates; but the socket may also be arranged with the upper plate, B, longer than the lower plate, C, as shown in Fig. 3, or both plates can be of the same length.

The scoop-handle socket shown in Fig. 3 is very durable, braces the weakest part of the scoop in a very effective manner, and does not require a triangular cut in the scoop to be filled by a like part of the socket, but can be cut out in such a manner as to form a single seam on the back of the scoop, which seam is covered on the upper side by the central ridge, G, of the socket.

The within-described socket-strap is much more durable than the ordinary socket, and stiffens and braces the blade.

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

The socket A, having flanges or plates B C, connected at their upper edges, in combination with the blade D, having depression E, as shown and described.

PATRICK W. GROOM.

Witnesses:

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