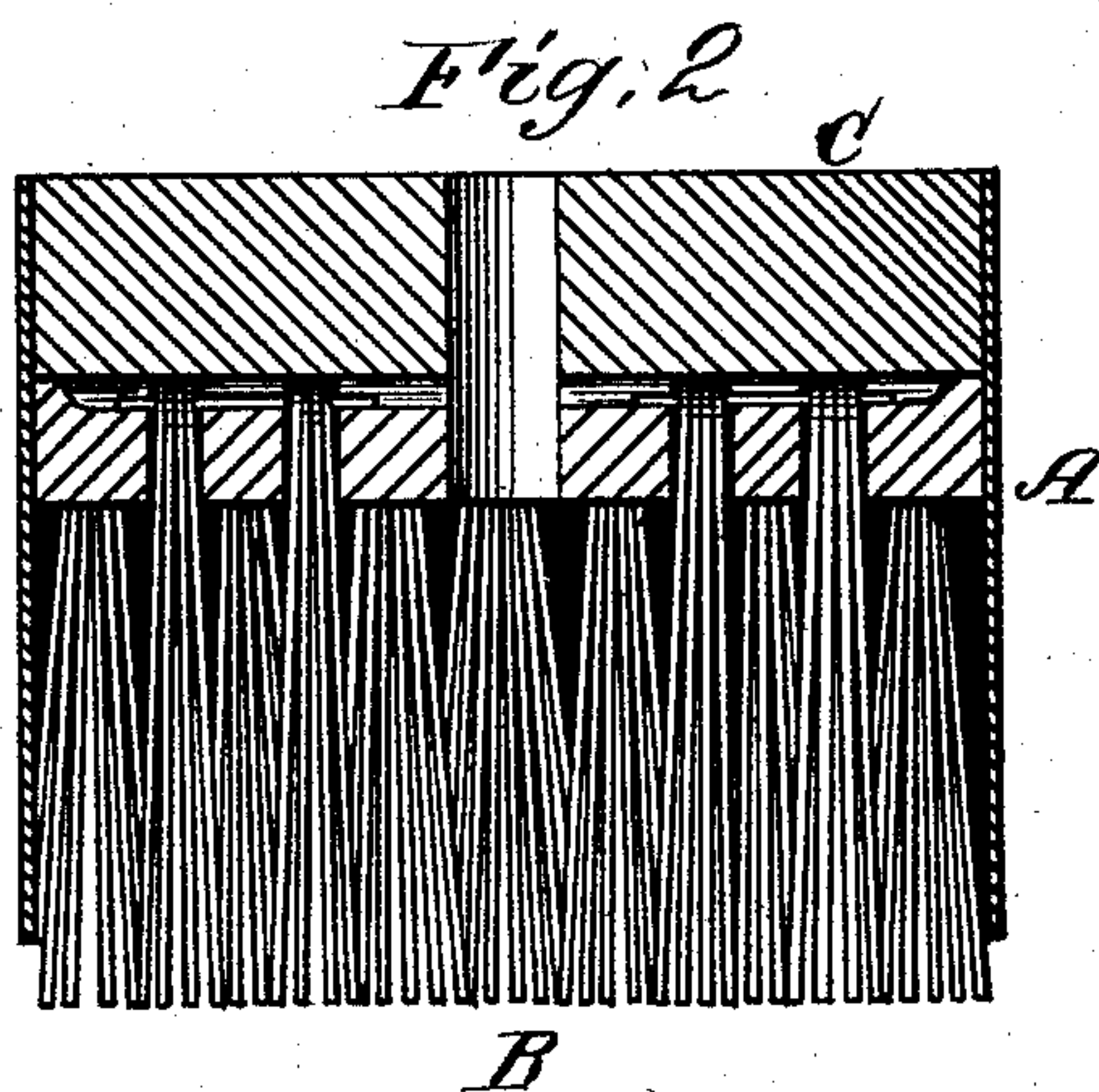
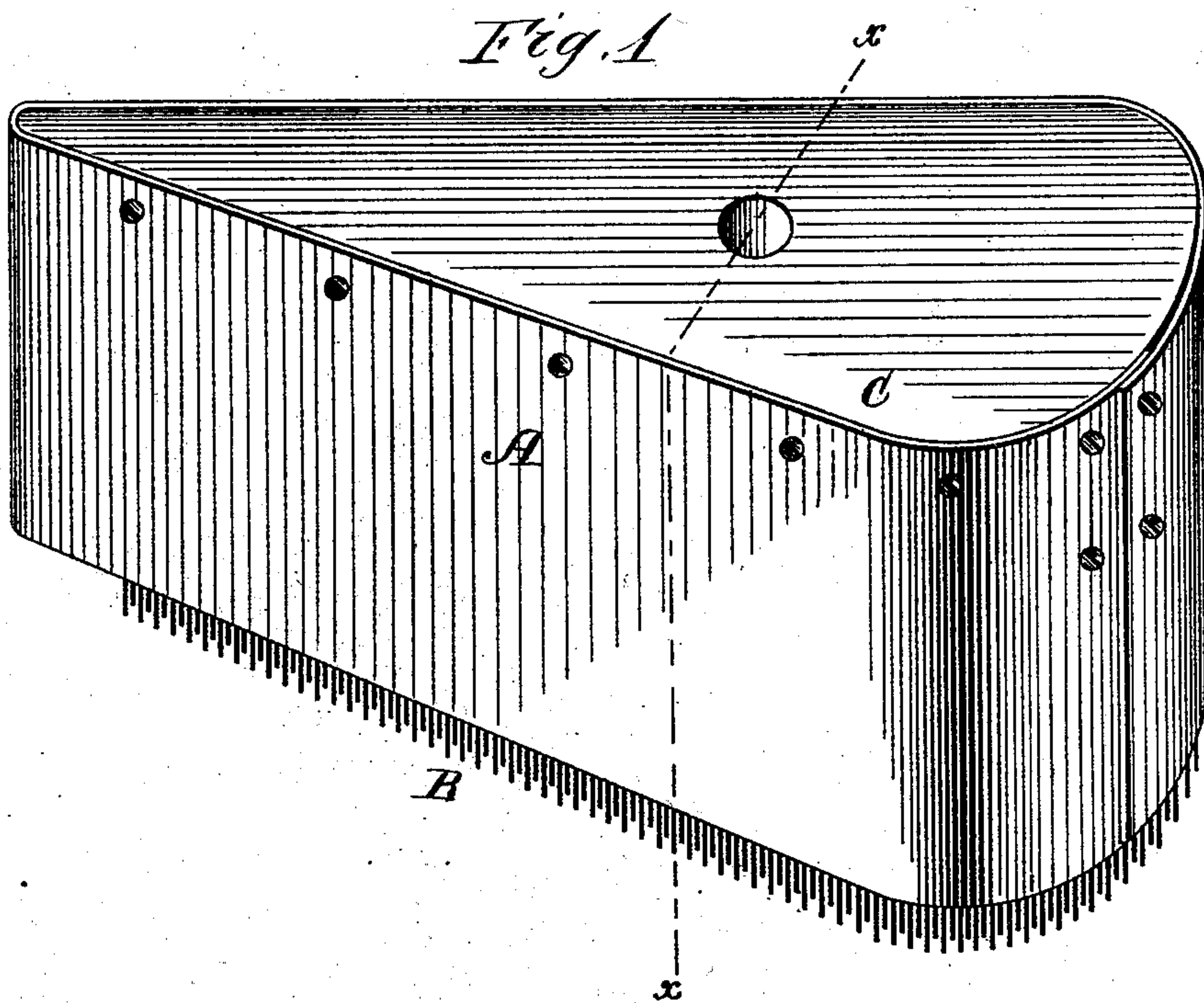


P. GRAFF.
 Combined Snow Plow and Brush.
 No. 222,036. Patented Nov. 25, 1879.



Witnesses

Nat. E. Oliphant
 R. H. Wade.

INVENTOR

Peter Graff,
 per Cha. H. Fowler
 Attorney.

UNITED STATES PATENT OFFICE.

PETER GRAFF, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN COMBINED SNOW PLOW AND BRUSH.

Specification forming part of Letters Patent No. **222,036**, dated November 25, 1879; application filed September 10, 1879.

To all whom it may concern:

Be it known that I, PETER GRAFF, of Chicago, in the county of Cook and State of Illinois, have invented a new and valuable Improvement in Combined Snow Plow and Brush; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a perspective view of my invention, and Fig. 2 is a sectional view taken on line *xx* of Fig. 1.

This invention has relation to that class of track-cleaners in which is employed a plow composed of two hinged sections, and having in the rear of it a revolving or stationary brush or brushes.

The present invention, however, differs from the above class of track-cleaners, as the plow forms a shell which completely encircles the brush, the head of the same serving as a means for securely fastening thereto the shell of the plow, as will be hereinafter more fully described.

In the accompanying drawings, A represents the shell of the plow, of galvanized iron or other suitable metal; or, if desired, it may be of wood, or any other material adapted to the purpose. This plow is preferably wedge-shaped to more effectually remove the heavy snow, sleet, ice, or any other obstruction, from the track.

The shell A incloses a brush, B, formed of steel wires of the desired length to project below the edge of the shell of the plow in order to act in conjunction therewith.

The brush B may be composed of steel or other metal wire, or any of the materials used in the manufacture of brushes. This brush is connected to a head, C, in form to correspond with the form of the plow, the shell thereof being secured to the sides of the head C by screws, bolts, or other suitable means, thereby forming a combined snow plow and brush simple in construction, and one that can readily be attached to the engine or locomotive.

The plow may be connected to either street or steam railroads by attaching it to the locomotive in front of the trucks by bolts or any other convenient means.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combined snow plow and brush consisting of the shell A, of the plow of wedge-shaped form secured to the head C, and inclosing both the head and brush, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

PETER GRAFF.

Witnesses:

C. D. INGRAHAM,
ALFRED GRAFF.