

J. W. YOUNG.  
PARIS-GREEN DUSTER.

No. 188,219.

Patented March 6, 1877.

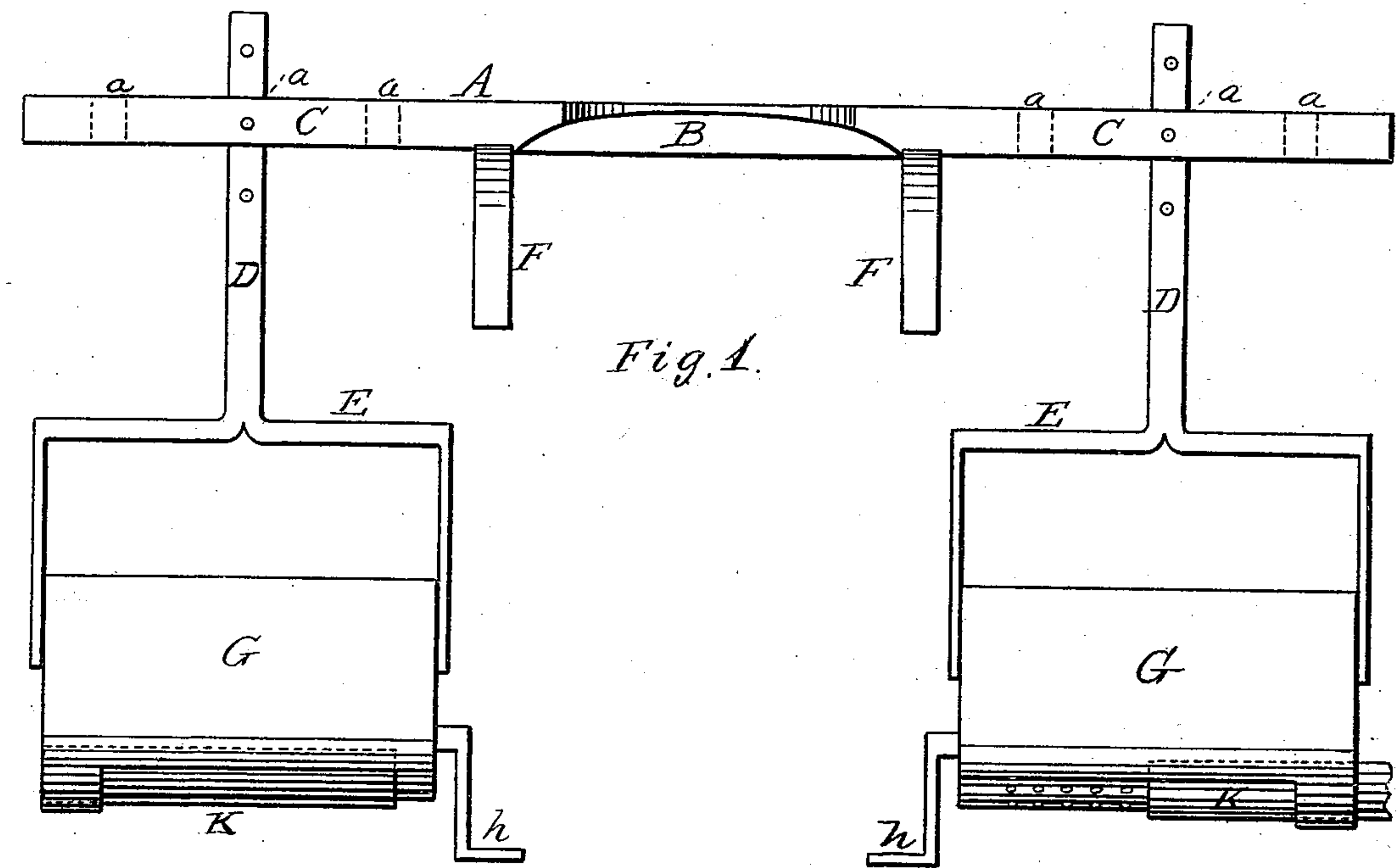


Fig. 1.

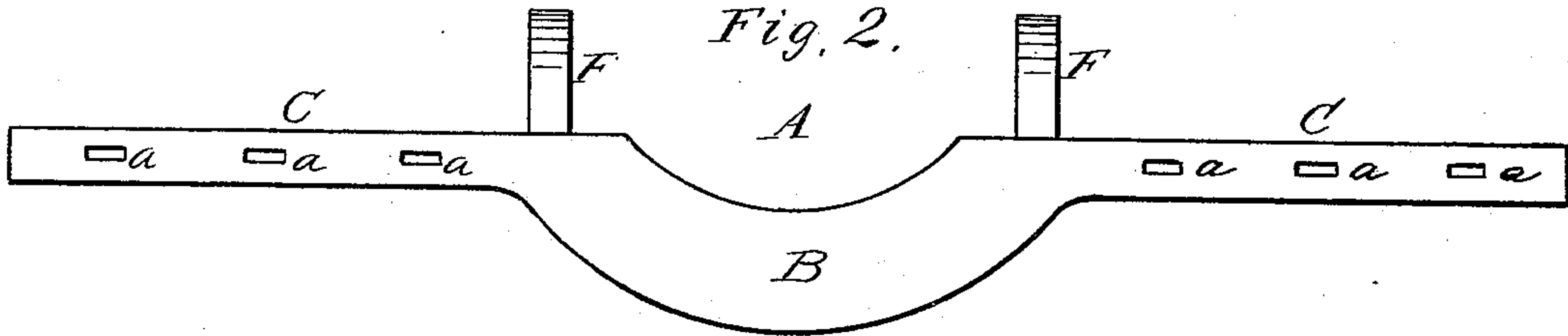


Fig. 2.

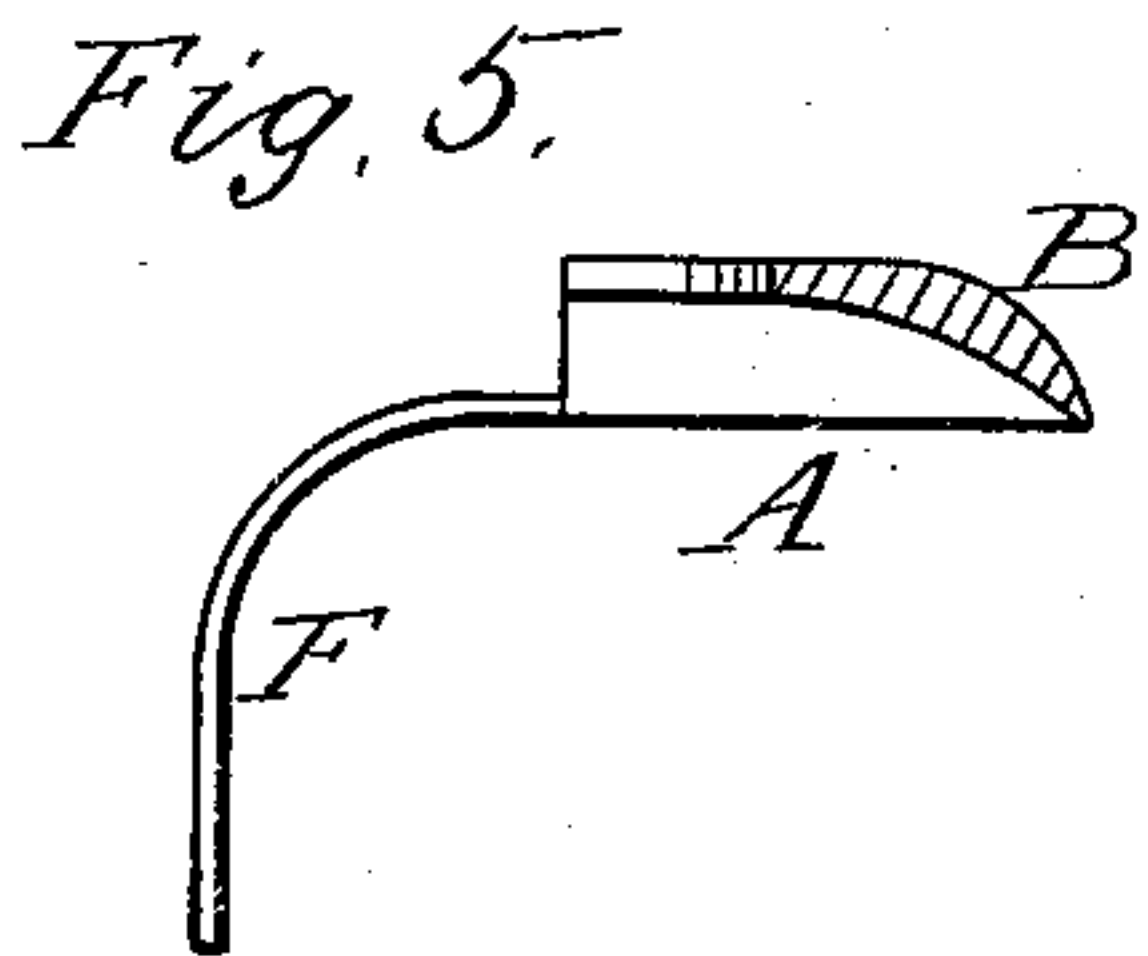


Fig. 5.

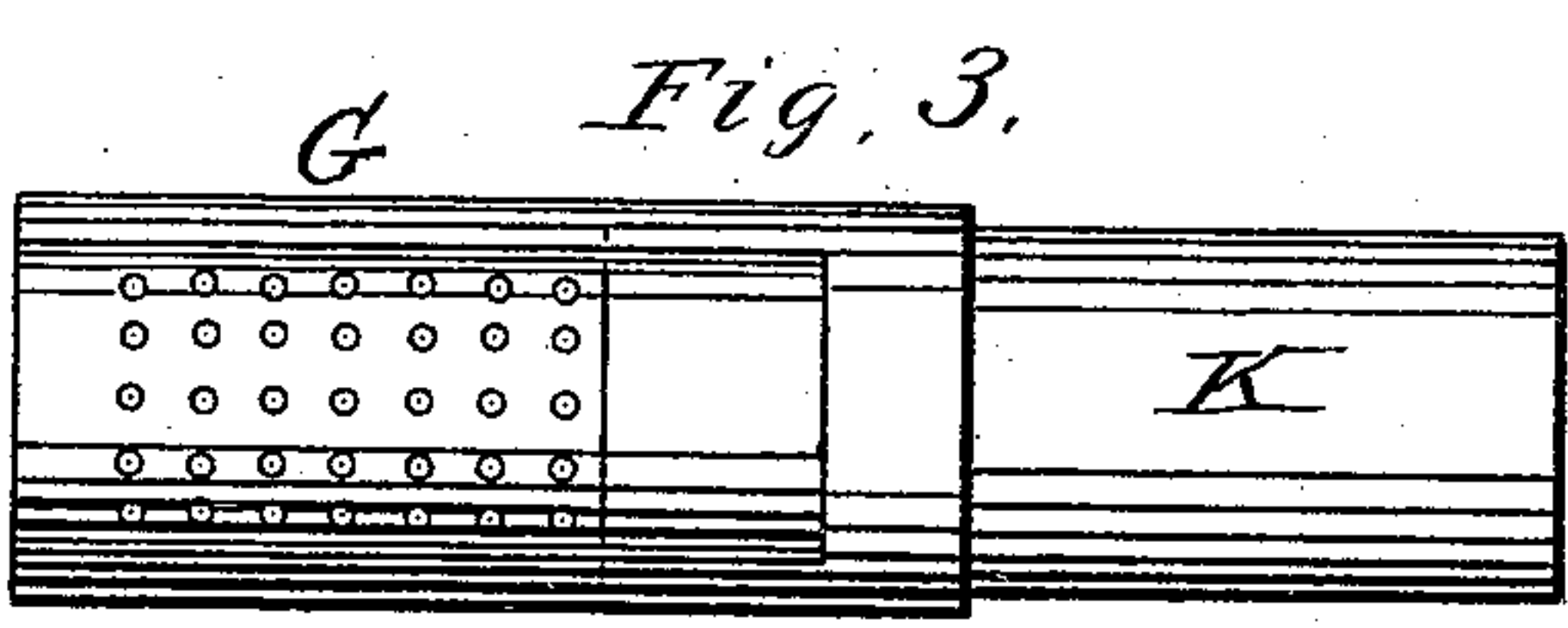
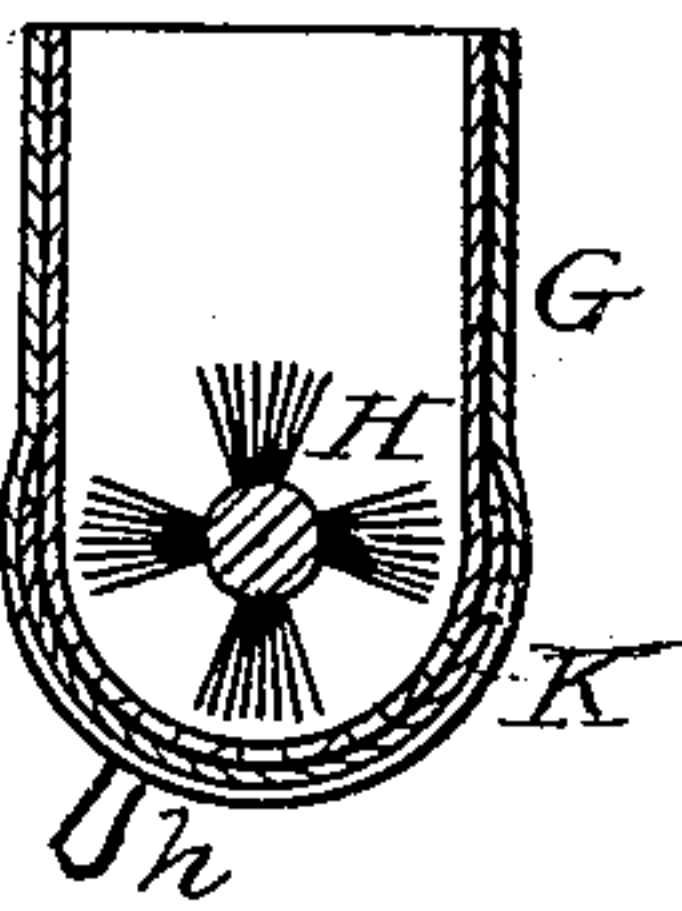


Fig. 3.

Fig. 4.



WITNESSES  
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Fig. 6.

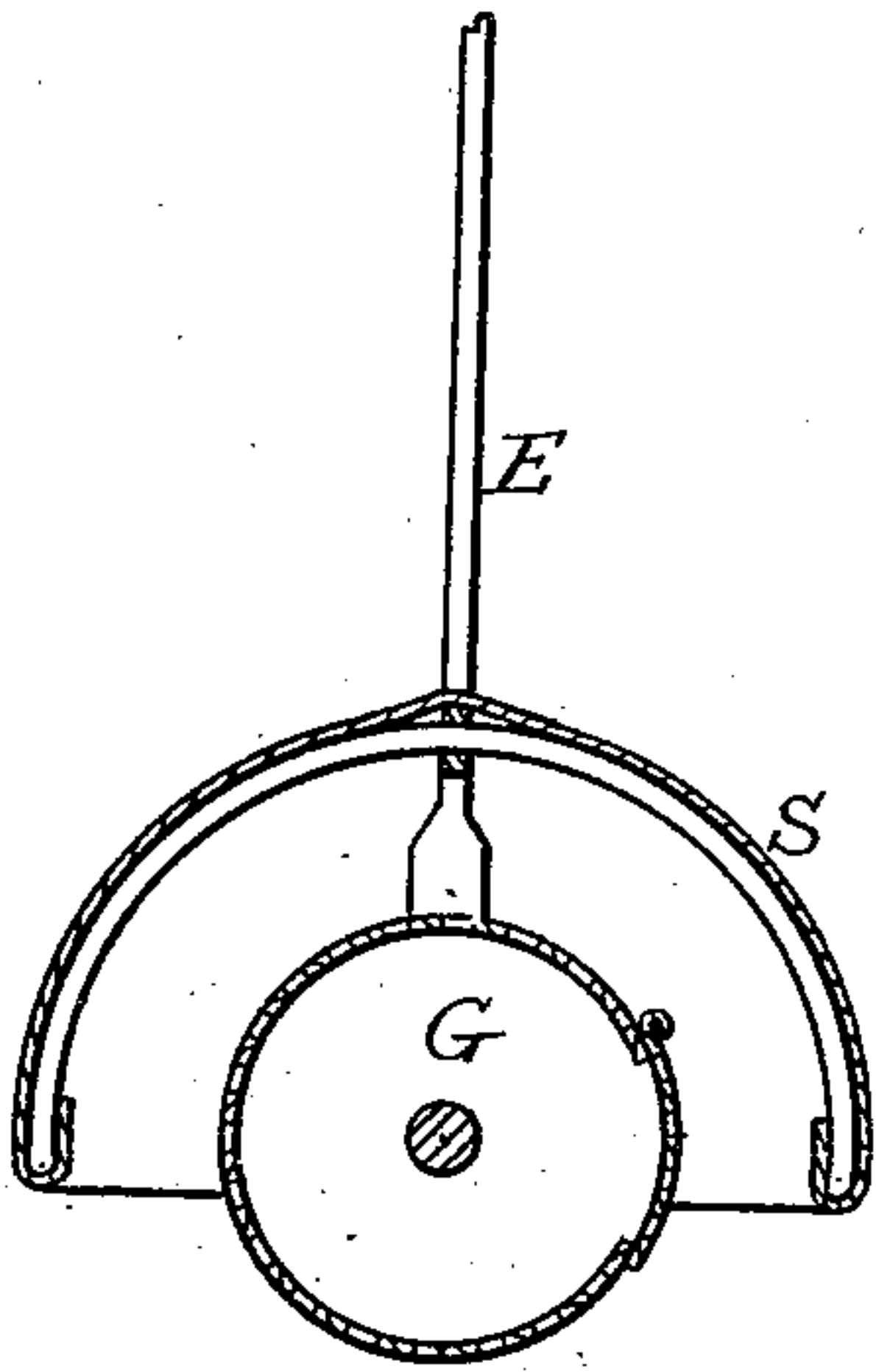


Fig 5

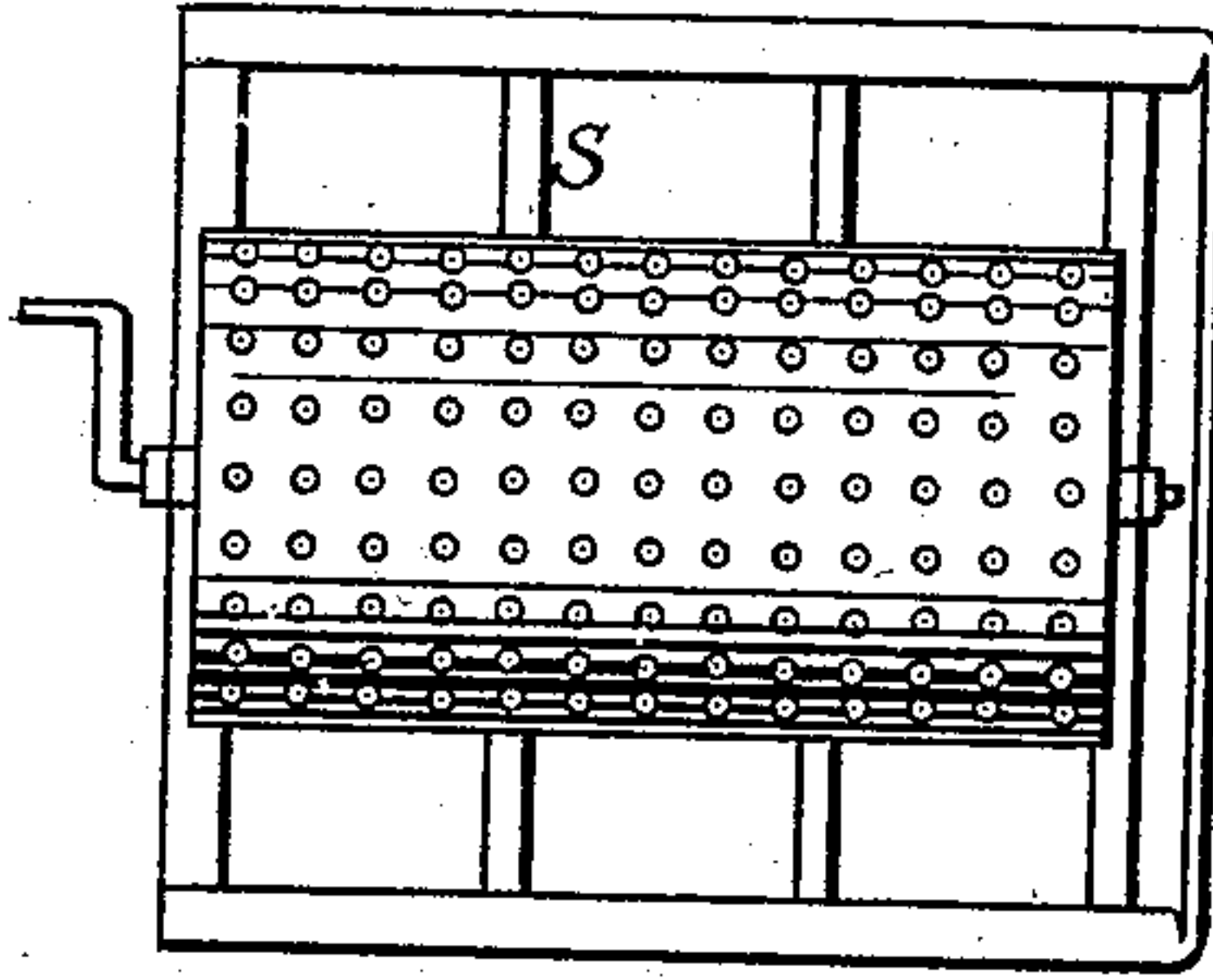


Fig. 7.

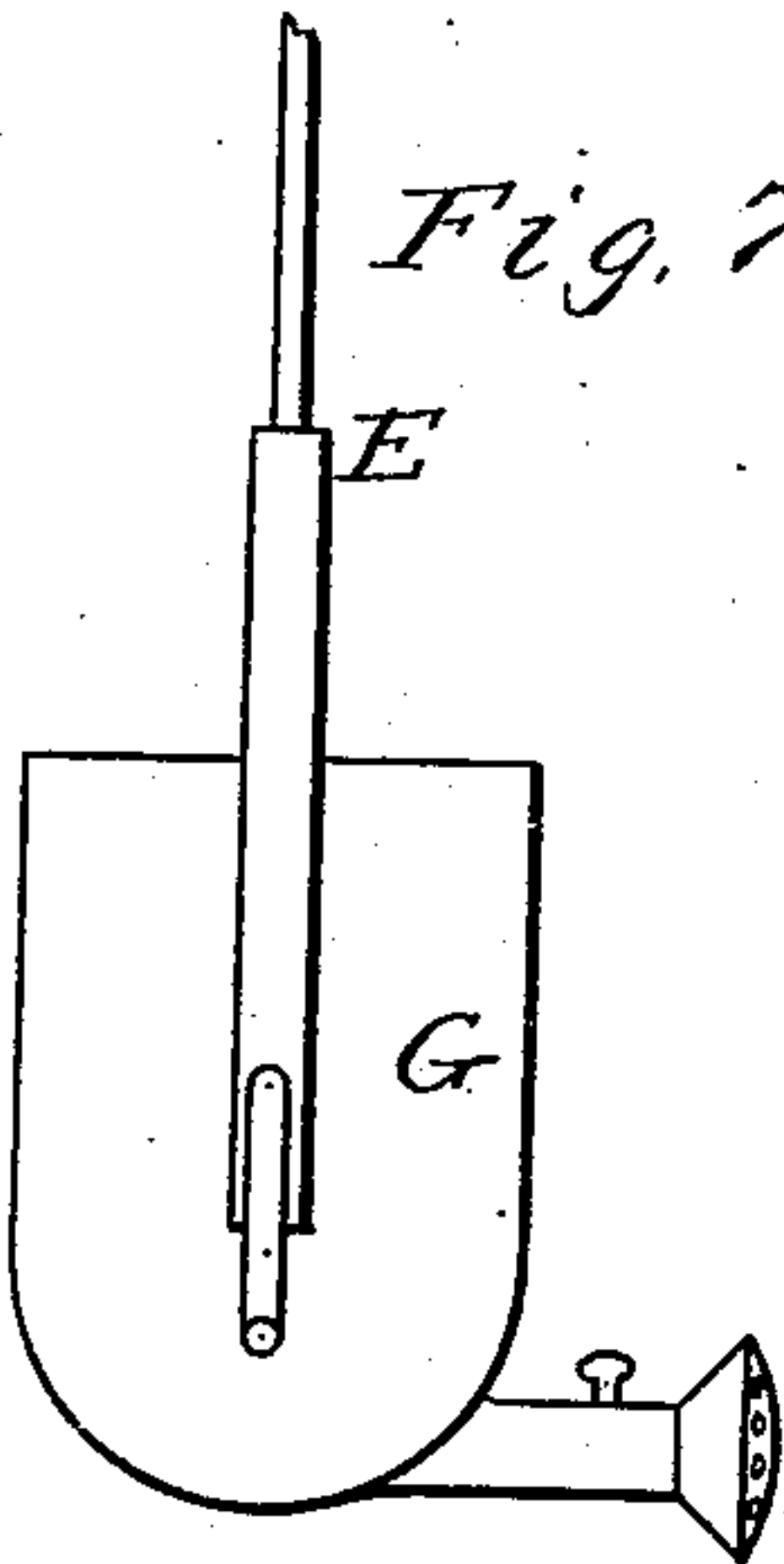
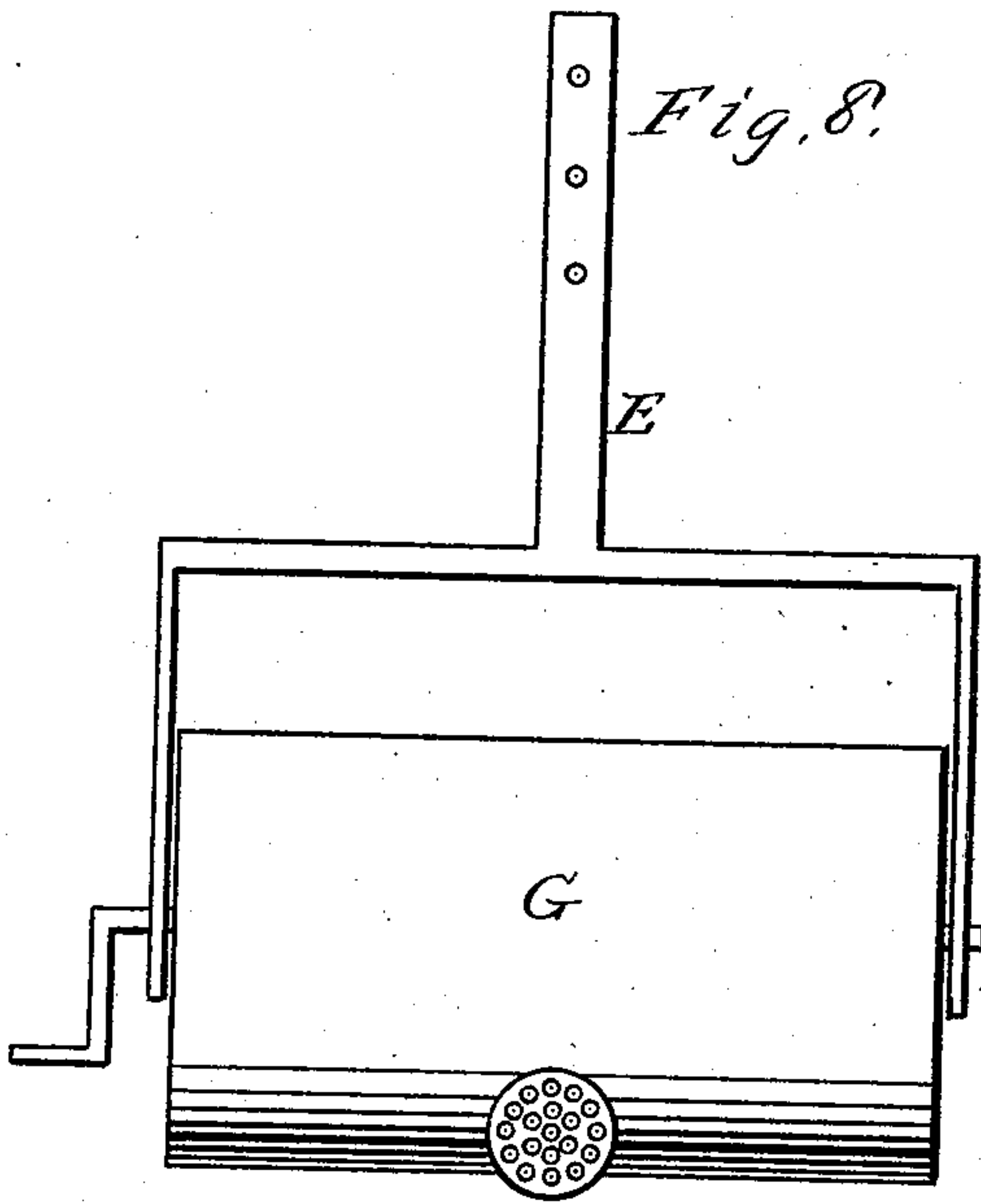


Fig. 8.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JAMES W. YOUNG, OF SOUTHFIELD, MICHIGAN.

## IMPROVEMENT IN PARIS-GREEN DUSTERS.

Specification forming part of Letters Patent No. **188,219**, dated March 6, 1877; application filed December 23, 1876.

*To all whom it may concern:*

Be it known that I, JAMES W. YOUNG, of Southfield, in the county of Oakland and State of Michigan, have invented a new and valuable Improvement in Paris-Green Dusters; 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 front view of this invention. Fig. 2 is a top view of the shoulder-bar. Figs. 3, 4, 5, 6, 7, and 8 are details of the parts.

This invention has relation to agricultural dusters for sprinkling potato-vines with paris-green, corn-hills with plaster, and other purposes; and it consists in the construction and novel arrangement of the shoulder-bar, having adjusting perforations for the can stems or hangers, the perforated cans, and adjustable base covers and shields, as hereinafter shown and described.

In the accompanying drawings, the letter A designates the shoulder support or bar, having a curved collar-piece, B, centrally arranged, from which extend the lateral arms C, which are perforated at different points, as indicated at *a*, for the reception of the stems D of the can hangers or frames E. F indicates curved arms, which extend forward and downward over the shoulders and keep the bar in place. G indicates the can or receptacle, in which the paris-green or plaster is placed. The can is attached to the hanger E, either rigidly or upon pivots, so as to receive a rotary or vibratory motion. If the paris-green is employed in the fluid state, the vibratory motion is preferred.

The bottom of the dusting-can is perforated

for the passage of the particles when they are driven out by the rotation of an internal brush, H, which is longitudinally arranged in the bottom of the can, and is provided with a journaled shaft and crank-handle, *h*. Sometimes the can may be made cylindrical in form, and rotated by means of a crank rigidly attached. These cranks or handles are arranged at the inner ends of the cans, so as to be operated with facility by the person who supports the cross-bar on his shoulders.

The cans are adjusted apart from each other according to the distance between the vines or hills; and in order to regulate the amount of dust to the growth of the vine each can is provided with a sliding base-cover, K, whereby as much of the perforated surface may be closed as is necessary.

To prevent the dust from flying upward and being inhaled by the operator, a guard-frame, S, covered with canvas or other cloth, is designed to be attached to the hanger in such a manner as to extend backward and forward over the can.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination of a perforated cylinder, crank *h*, shield S, and adjustable hanger, substantially as and for the purpose specified.

2. The combination, with the shoulder-bar A, having curved arms F and perforated arms C, of the branched hangers D E, carrying dusting-cans G, substantially as specified.

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

JAMES W. YOUNG.

Witnesses:

E. A. BOUR,  
A. I. M. LORD.