

E. Savage.

Screw Blank Feeder

N^o 13,767.

Patented Nov. 6, 1855.

Fig 1

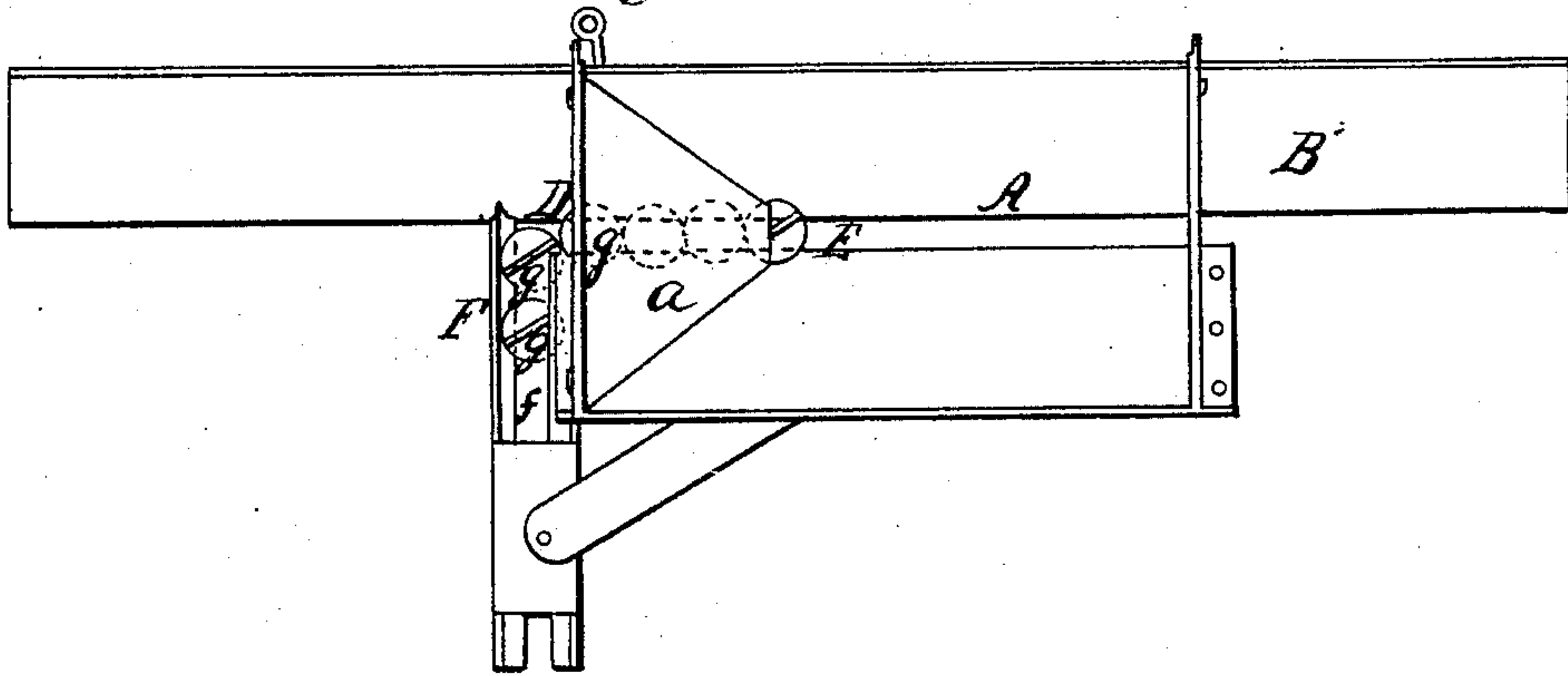


Fig. 2

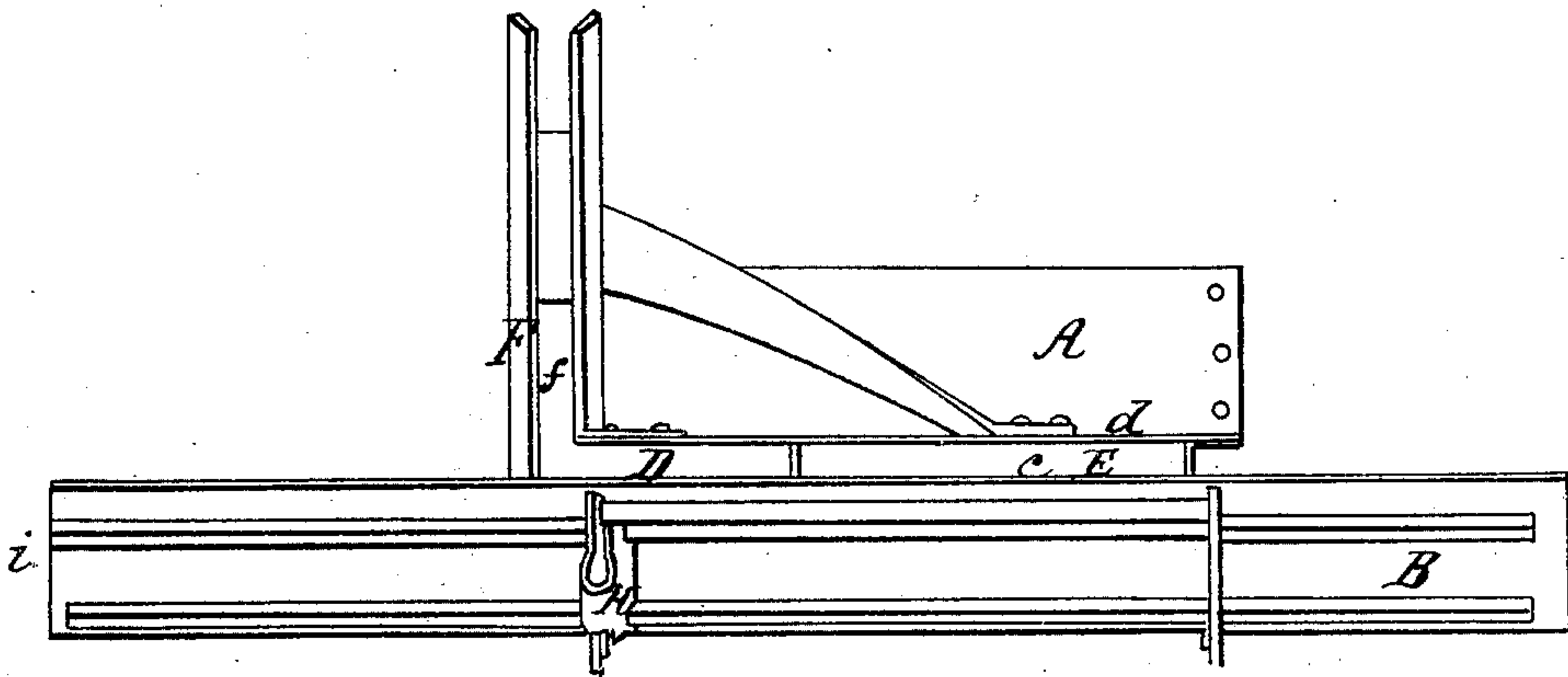
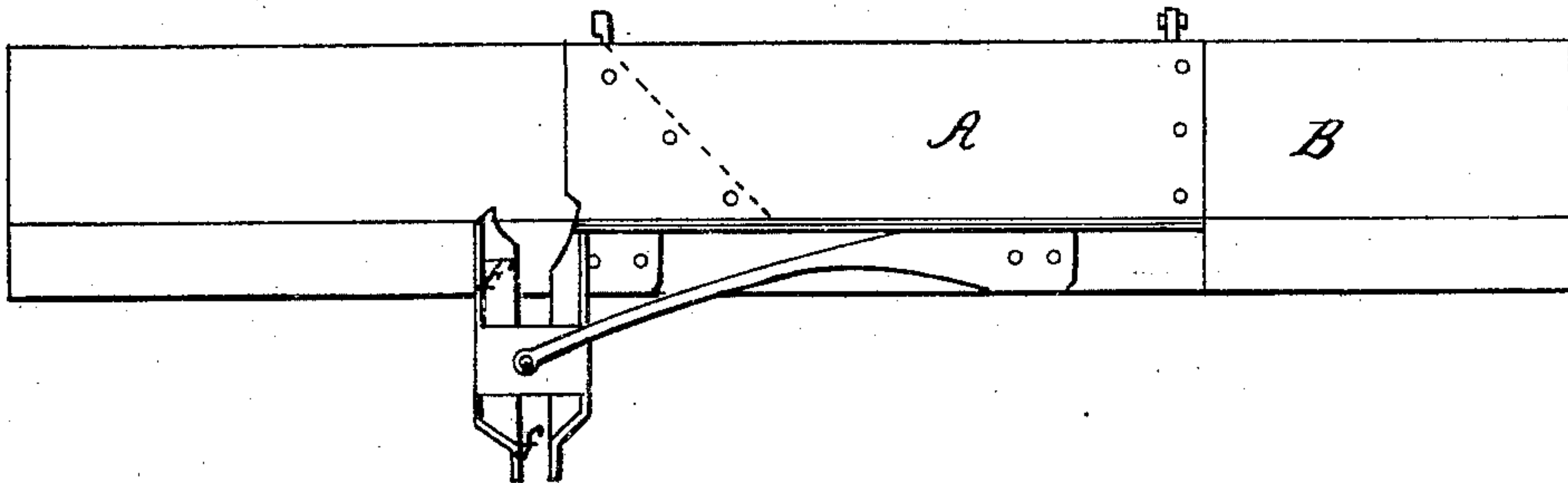


Fig. 5



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Fig. 4.

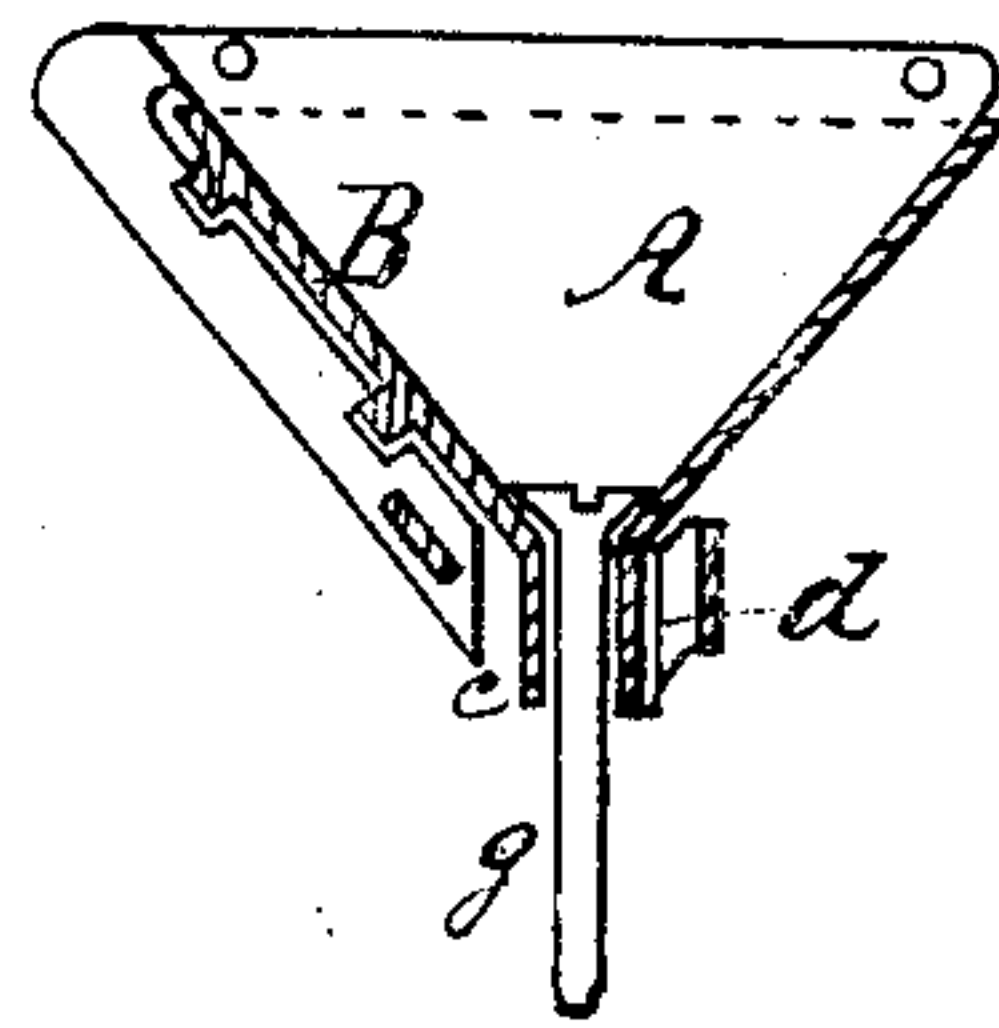


Fig. 3.

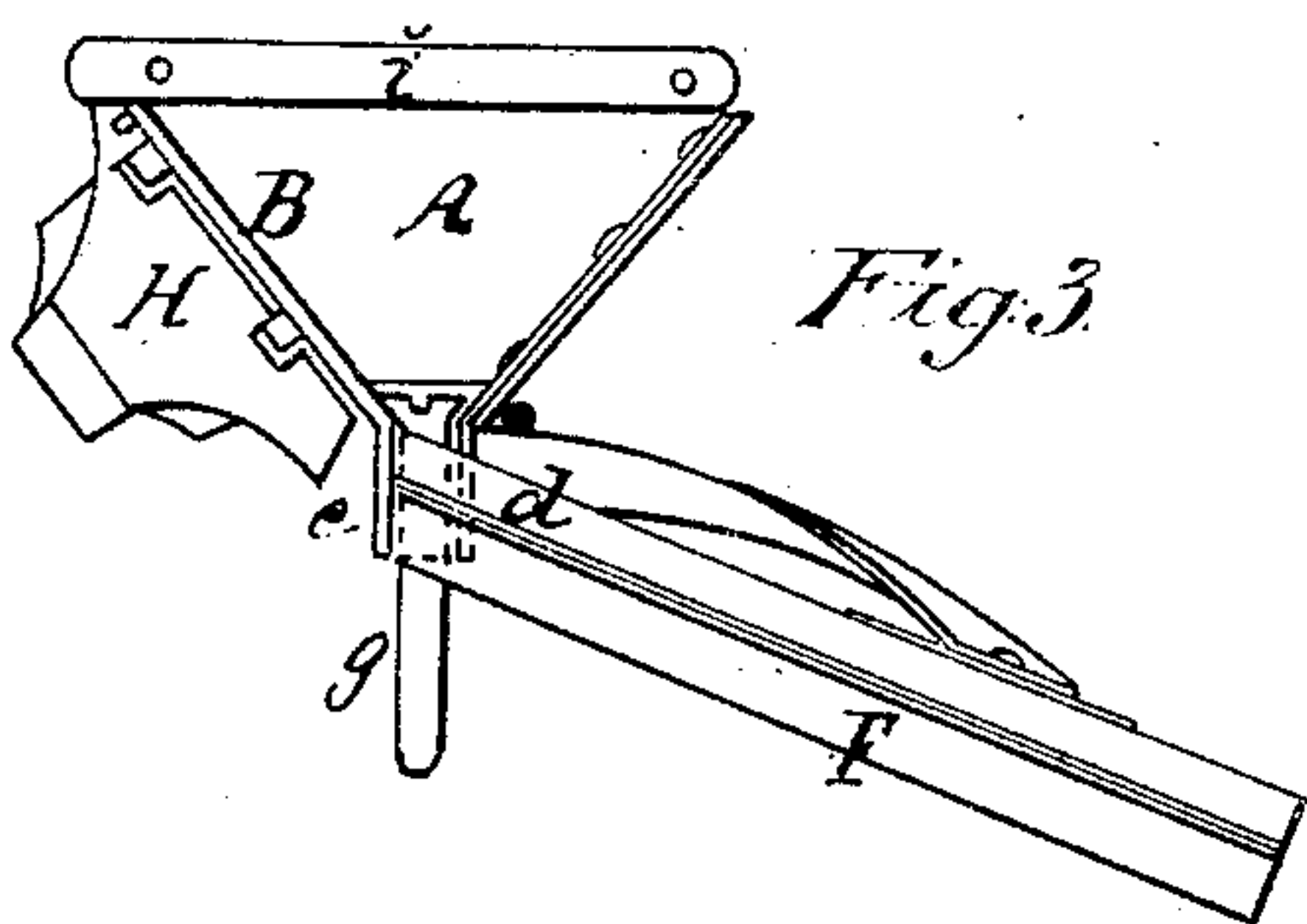


Fig. 7.

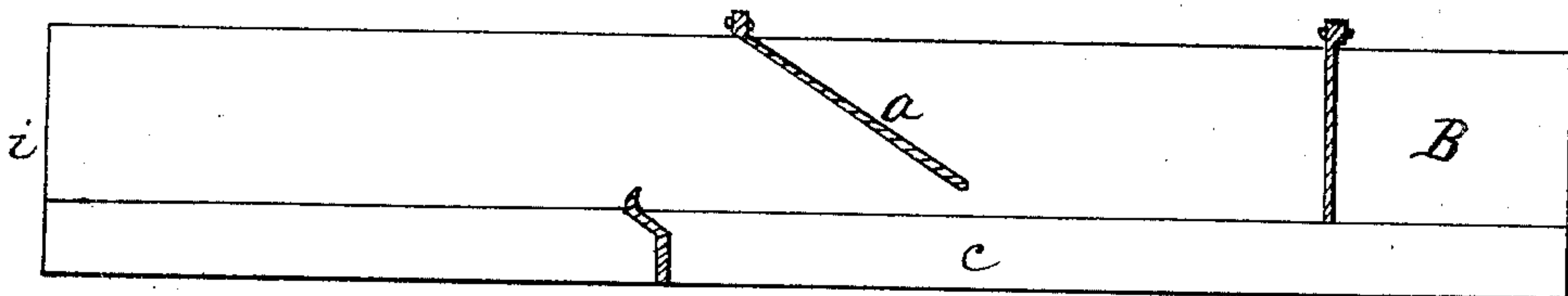
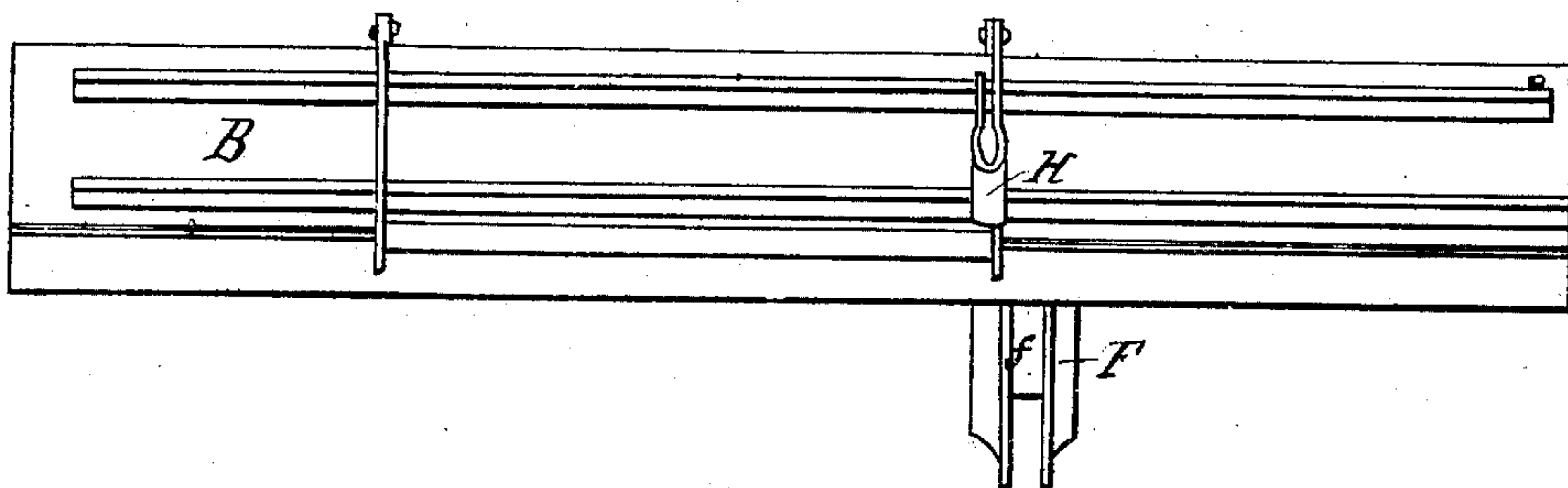


Fig. 6.



UNITED STATES PATENT OFFICE

ELLIOT SAVAGE, OF EAST BERLIN, CONNECTICUT.

ARRANGING AND FEEDING SCREW-BLANKS.

Specification of Letters Patent No. 13,767, dated November 6, 1855.

To all whom it may concern:

Be it known that I, ELLIOT SAVAGE, of East Berlin, in the county of Hartford and State of Connecticut, have invented a new and useful Machine or Apparatus for Arranging and Feeding Screw-Blanks; and I do hereby declare that the same is fully described and represented in the following specification and the accompanying drawings, letters, figures, and references thereof.

Of such drawings Figure 1, denotes a top view of my invention; Fig. 2, an underside view of it; Fig. 3, a front end view of it; Fig. 4, a transverse section of it; Figs. 5 and 6 are side views of it.

In carrying out my invention I make use of a hopper or receiver A having one or more of its inner sides arranged at an angle with respect to the inner surface of a reciprocating slider B as seen in the drawings, such slider serving to constitute one side of the hopper or receiver, A, and also one side of the long opening or space D, extending out of the bottom of the hopper and into a passage or channel E, formed between the parallel plates *c*, *d*, projecting down respectively from the receiver or hopper and the slider as seen in the drawings and leading into an inclined conductor or spout, F, disposed as seen in the figures. The said inclined conductor is provided with a long slot or passage, *f* which communicates at its upper end with the channel E in such manner that the screw blanks may be made to pass out of the said passage and into the inclined conductor and take positions as represented at *g*, *g* in Figs. 3, 4 and 5.

The slider B, when the machine is in use, is to have a reciprocating rectilinear movement imparted to it, it being adapted to the hopper in such manner as to admit of such a movement. There is affixed to the hopper a spring or presser H, which is arranged and made to press against the outer surface of the slider as seen in the drawings, its arrangement being such as will allow and cause the slider to be pressed up against the screw blanks when it is moved forward and to give or move away a little therefrom during its backward movement, the same being to facilitate the forward movement of the screw blanks through the passage E, and into the conductor.

In operating with my machine a quantity of screw blanks is thrown promiscuously into the hopper. This done, the slider is to be put in motion forward and backward. By its friction against the mass of blanks, it will cause some of them to fall downward and extend through the openings in the hopper and to stand in vertical directions and be supported by their heads resting against the two opposite inclined sides of the hopper.

In Fig. 7, is represented a longitudinal section of the hopper, and it will be observed by said figure, that the front end, *i*, of the hopper, terminates at its lower edge somewhat above its passage E, and so as to permit the blanks when in said passage to be moved out of the hopper and underneath the said end.

By the continued movement of the slider the blanks will not only be caused to fall downward and be arranged in vertical directions, but will be moved through the passage and successively caused to enter the inclined spout or conductor, F, and through which they will be made to travel by their gravitating power, each maintaining its vertical position while passing longitudinally throughout said conductor. The apparatus so made is intended to be applied to a screw threading machine in such manner as to cause the screw blanks to be delivered or fed successively into the same as circumstances may require.

What I claim as my invention, is—

1. The combination of the reciprocating slider, the receiver, or hopper and the inclined conductor; the same being arranged and made to operate together substantially as herebefore specified.

2. I also claim combining the spring proper with the slider and hopper and so as to cause the slider to operate laterally, with respect to the screw blank as explained.

In testimony whereof I have hereunto set my signature this twenty-second day of September A. D. 1855.

ELLIOT SAVAGE.

Witnesses:

CHAS. A. BOYS,
EDWD. WILCOX.