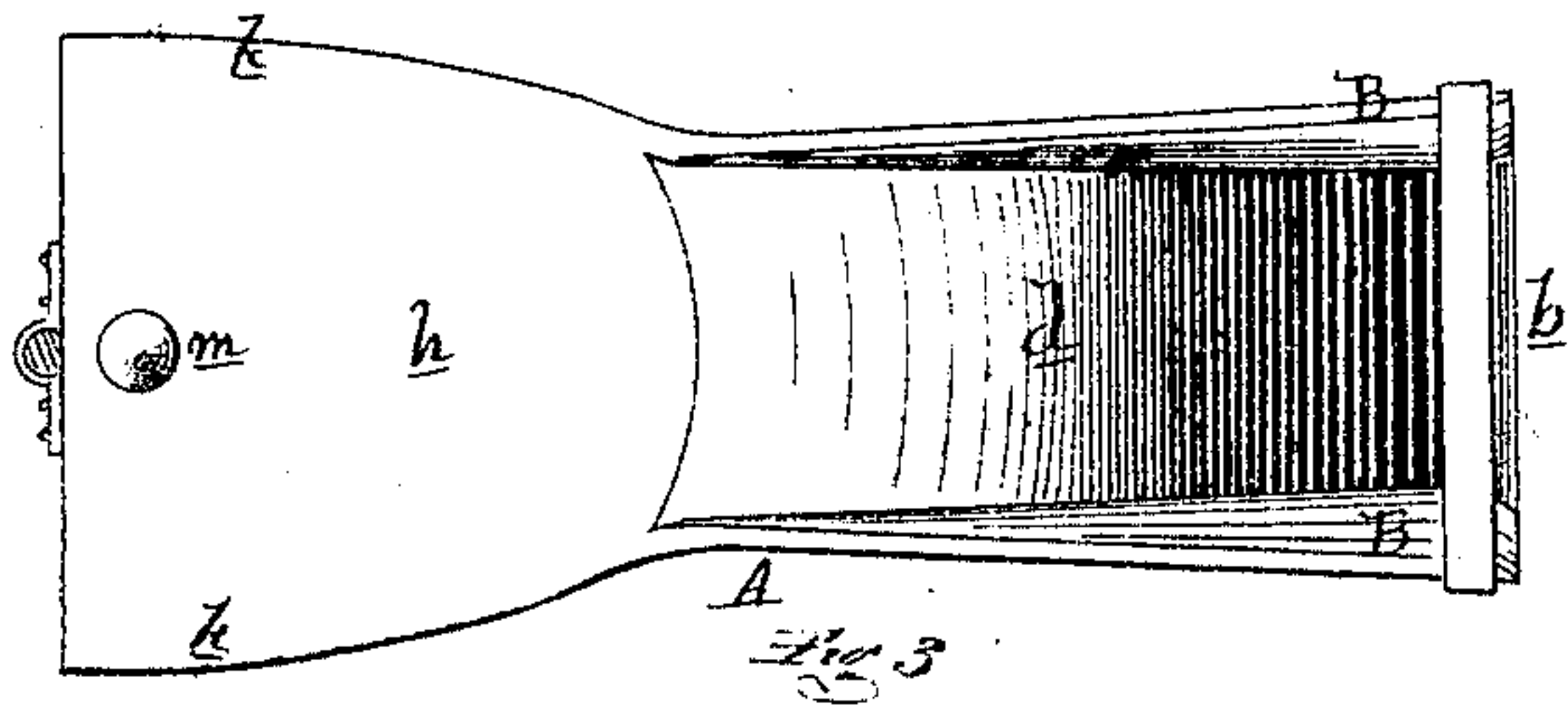
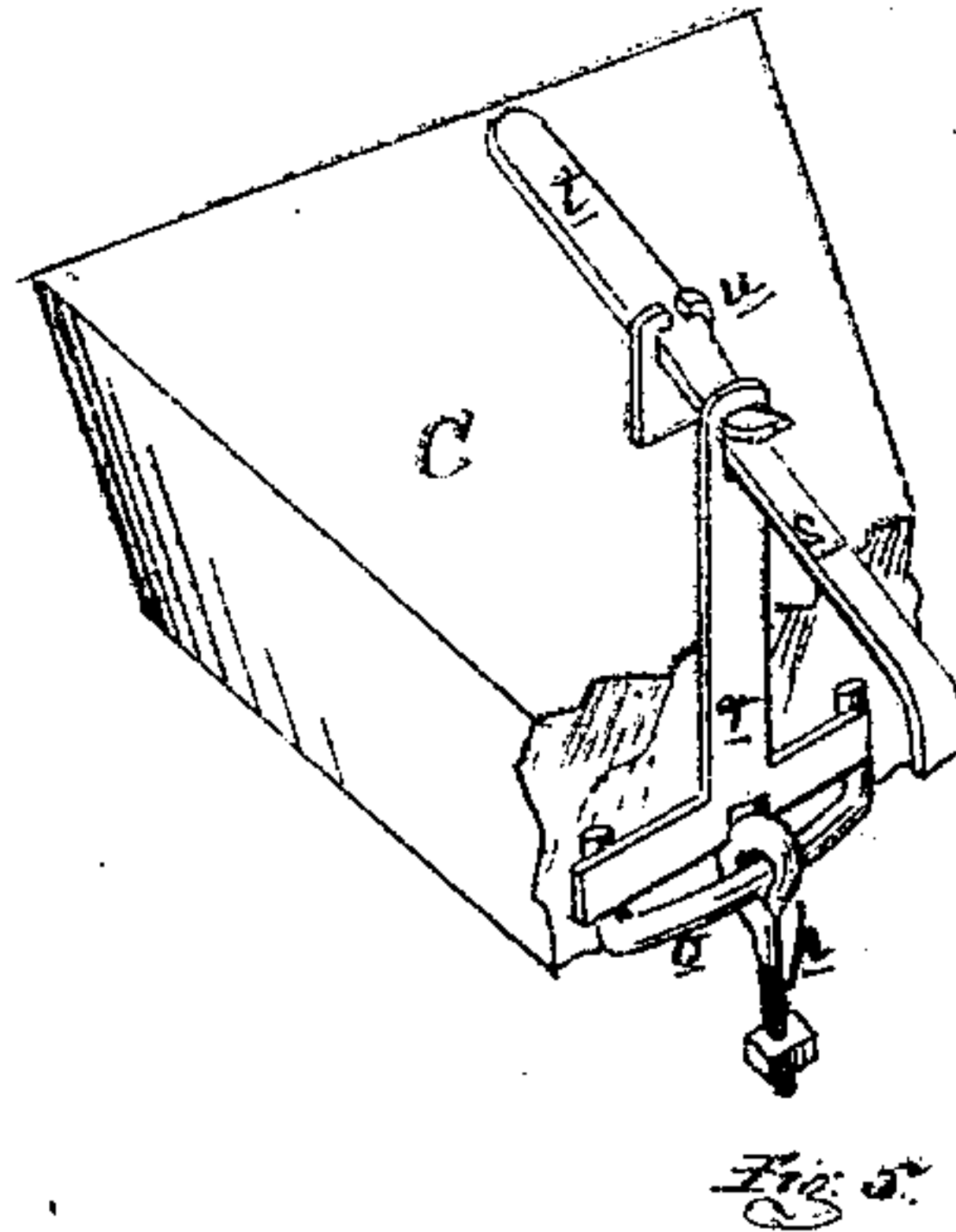
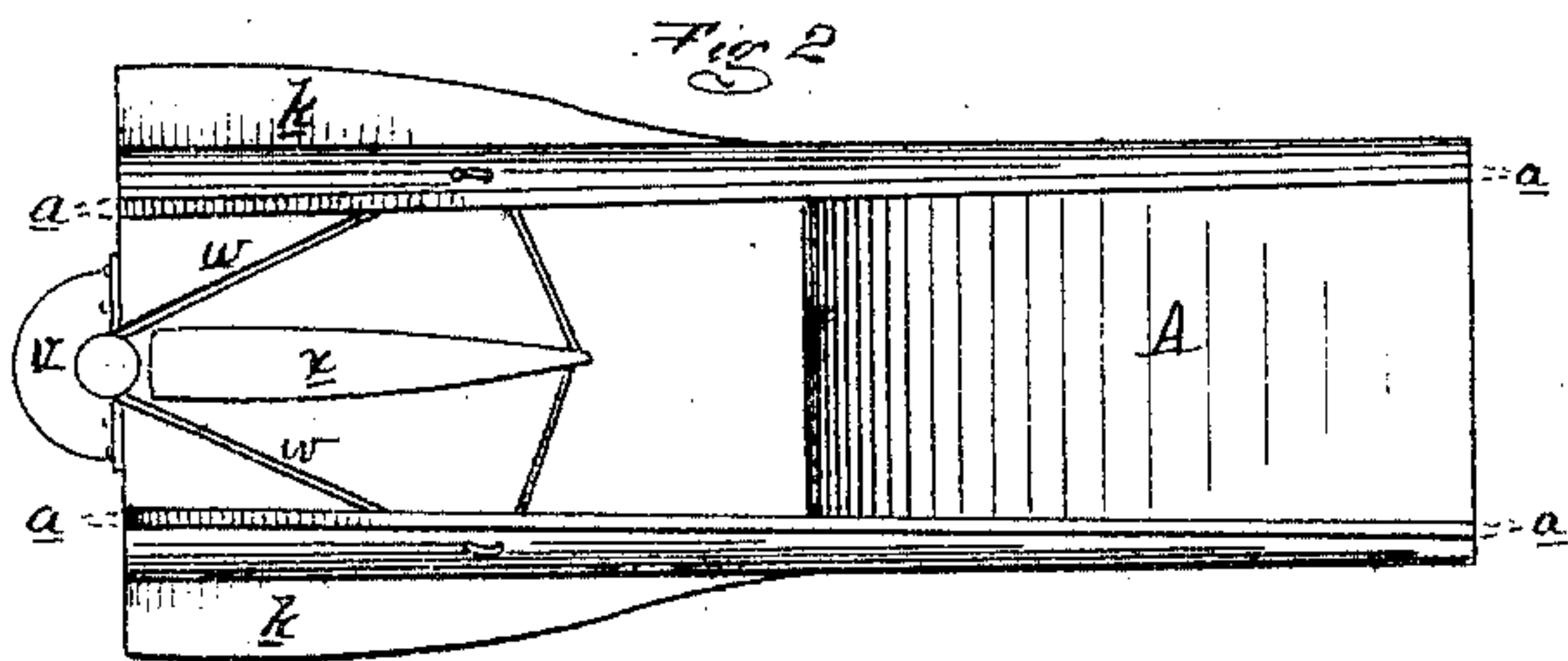
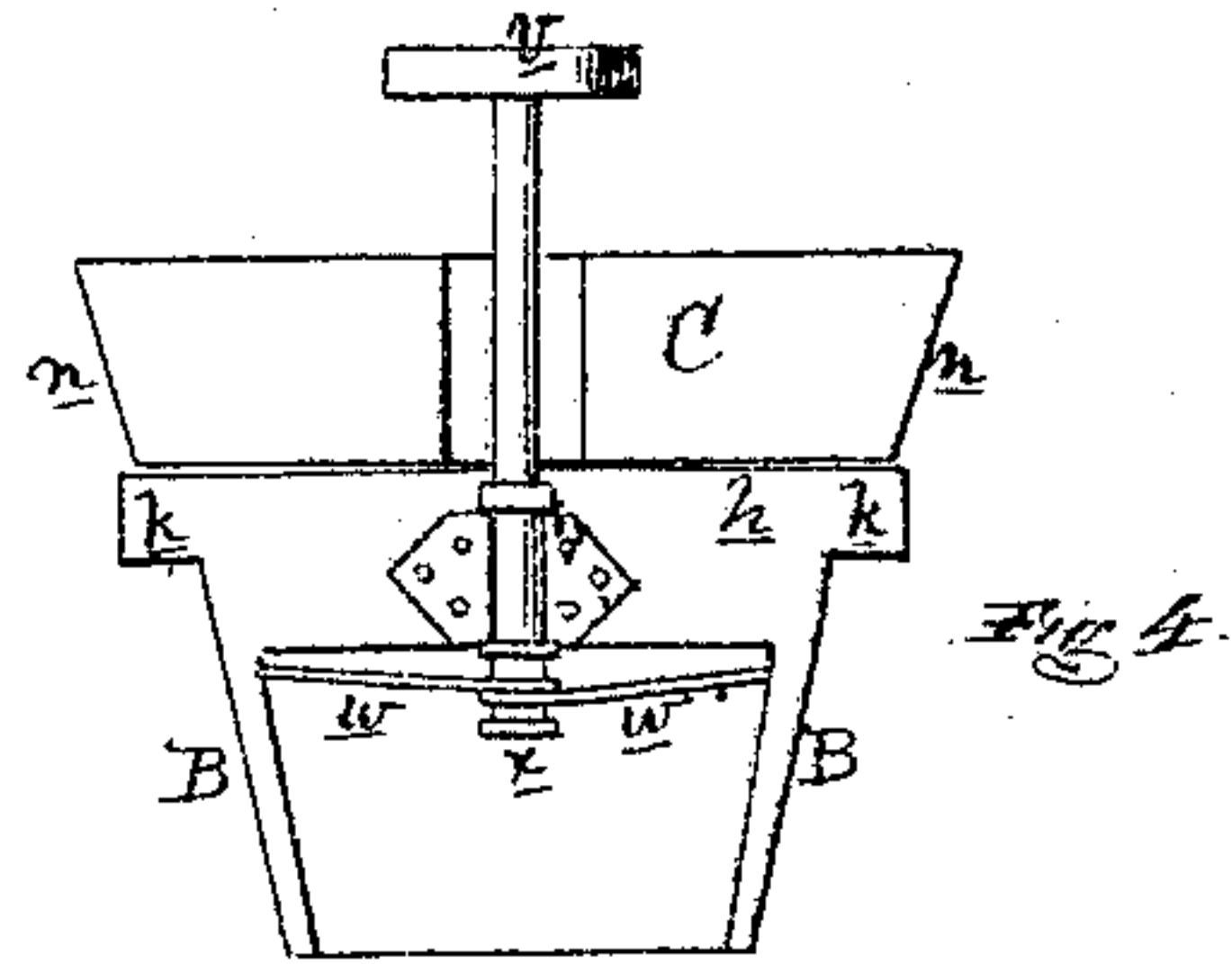
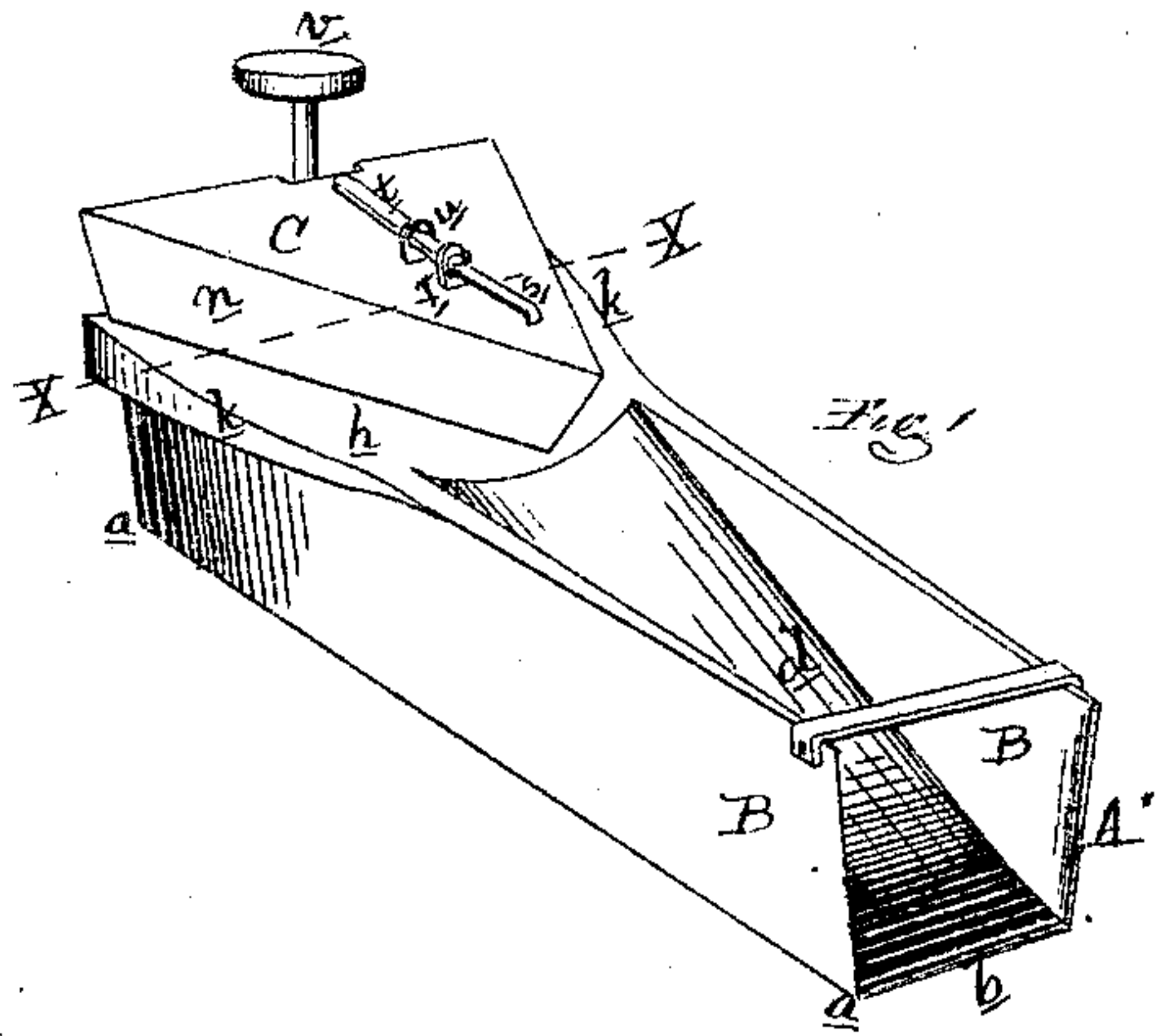


T. S. BROWN.

SNOW PLOW

No. 118,784.

Patented Sep. 12, 1871.



ATTEST

H. F. Eberk.
W. Stewart

INVENTOR

Thomas Spence Brown
per Attorney
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UNITED STATES PATENT OFFICE.

THOMAS SPENCE BROWN, OF GREENFIELD, MICHIGAN.

IMPROVEMENT IN SNOW-PLOWS.

Specification forming part of Letters Patent No. 118,784, dated September 12, 1871.

To all whom it may concern:

Be it known that I, THOMAS SPENCE BROWN, of Greenfield, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Snow-Plows; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is a perspective view of my device. Fig. 2 is a plan view from the bottom. Fig. 3 is a plan of the top, with the rotating portion of the device removed. Fig. 4 is a rear view, and Fig. 5 is a cross vertical section of the rotating portion of the device on the line *xx* in Fig. 1, and showing the method of securing the same.

Like letters refer to like parts in each figure.

The nature of this invention relates to a device designed to be mounted upon a suitable truck and driven in advance of the locomotive for the purpose of clearing snow from the track. The invention consists in the peculiar arrangement of the devices for operating said auxiliary plow.

In the accompanying drawing, A represents a scoop made of any suitable material and with flaring side walls B, which walls gradually approach each other from front to rear, as shown in the lines *aa* in Fig. 2, so that the front of the device is wider than the opposite end of the same, that in the progress of the device it may be relieved from the friction of the snow on the outside of the walls were they parallel.

In the operation of the device the snow enters the mouth *b* of the scoop, and is carried upward and rearward on the inclined floor *d* and delivered upon the platform *h*, which has a gentle inclination to the front, and whose edges *k* project upon the sides of the device and are wedge-shaped, as shown in Fig. 1, in order, if the snow be deep, to ride upon and pack the tops of the walls of the banks of snow upon each side of the track and prevent their toppling or being blown over onto the track. The floor *d* of the scoop gradually widens from the mouth *b* to the platform *h* in order to prevent the snow from be-

coming packed or wedged between the walls B, and said floor is slightly hipped near its upper end in order to facilitate the division of the snow previous to its being delivered upon the platform and thrown off by the auxiliary plow.

C is an auxiliary triangular-shaped plow, pivoted to the rear end of the platform *h* at *m*, and its two foremost sides have an inward and downward slope, as at *n* in Figs. 1 and 4. A curved sway-bar, *o*, is secured to the under face of the plow C, upon which is hung the eyebolt *p*, which passes down through the platform and is secured by a proper nut. An inverted T-shaped bolt, *r*, the lower face of which is notched, as shown in Fig. 5, passes downward through plow C in such a manner that the notch will engage with the head of the eyebolt and hold said plow with its foremost point presented to the center of the front of the mouth *b*, as shown in Fig. 1. The upper end of this bolt *r* terminates above the top of the plow in a suitable loop, which engages with the spring *s*, whose operation is to hold the bolt in its engagement with the head of the eyebolt for the purpose of holding the plow C in its position, as shown. This plow C, being in this position, divides the snow thereon upon the platform and throws it upon each side of the track.

Where a double track is used, and in case of sidings, or where it is desired to throw the snow to either side of the track, pressure upon the foot-lever *t* lifts the bolt *r* from its engagement with the eyebolt *p* and allows the plow C to be partially rotated to the side where it is desired to deliver the snow, by means of the wheel *v*, tiller-ropes or chains *w*, and tiller *x*, which are suitably arranged for the purpose.

What I claim as my invention, and desire to secure by Letters Patent, is—

The devices herein named for operating the auxiliary plow C, consisting of the sway-bar *o*, eyebolt *p*, T-shaped bolt *r*, spring *s*, foot-lever *t*, tiller-ropes or chains *w*, tiller *x*, and wheel *v*, all constructed and arranged substantially as and for the purposes set forth.

THOMAS SPENCE BROWN.

Witnesses:

THOS. S. SPRAGUE,
H. F. EBERTS.