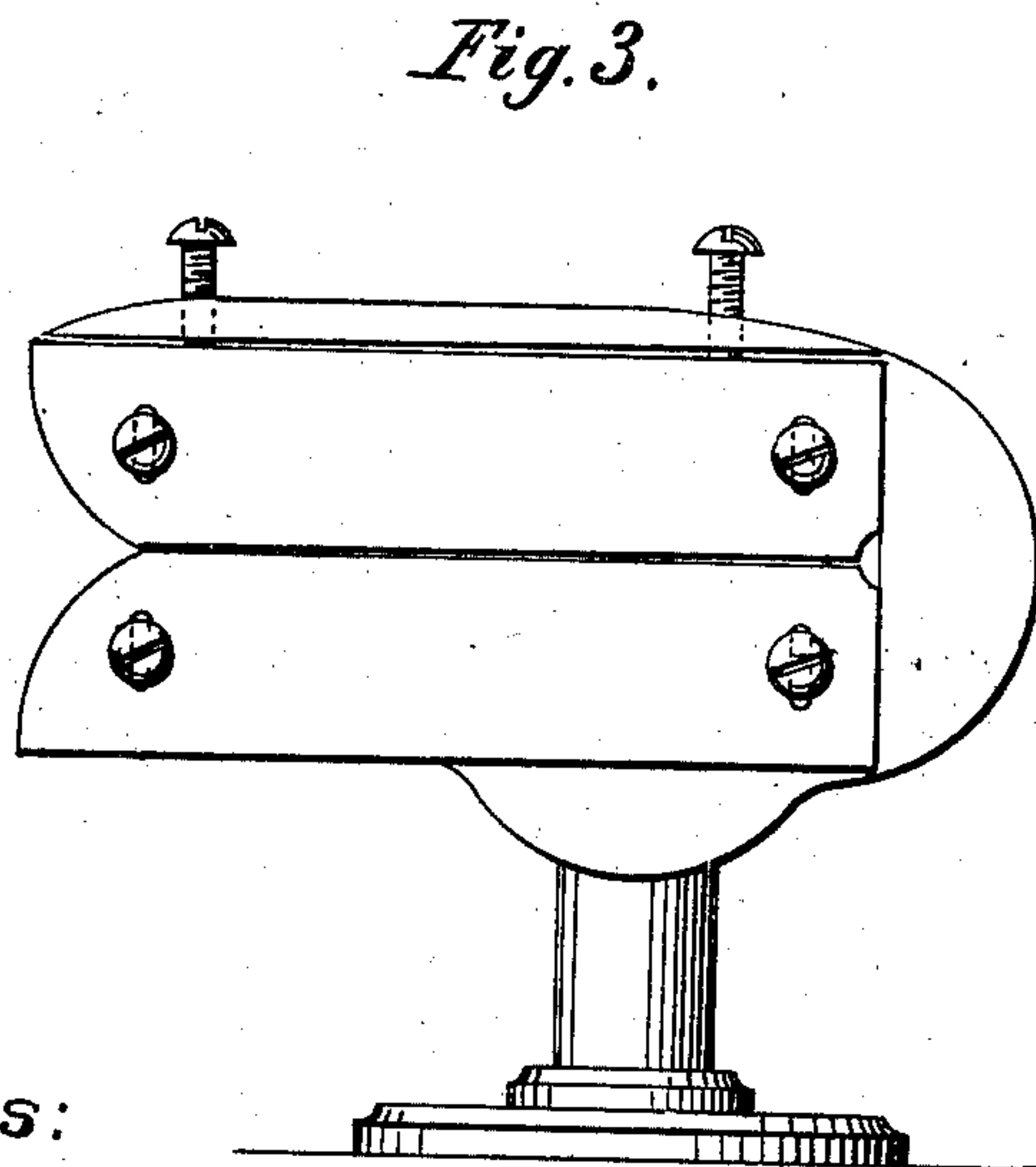
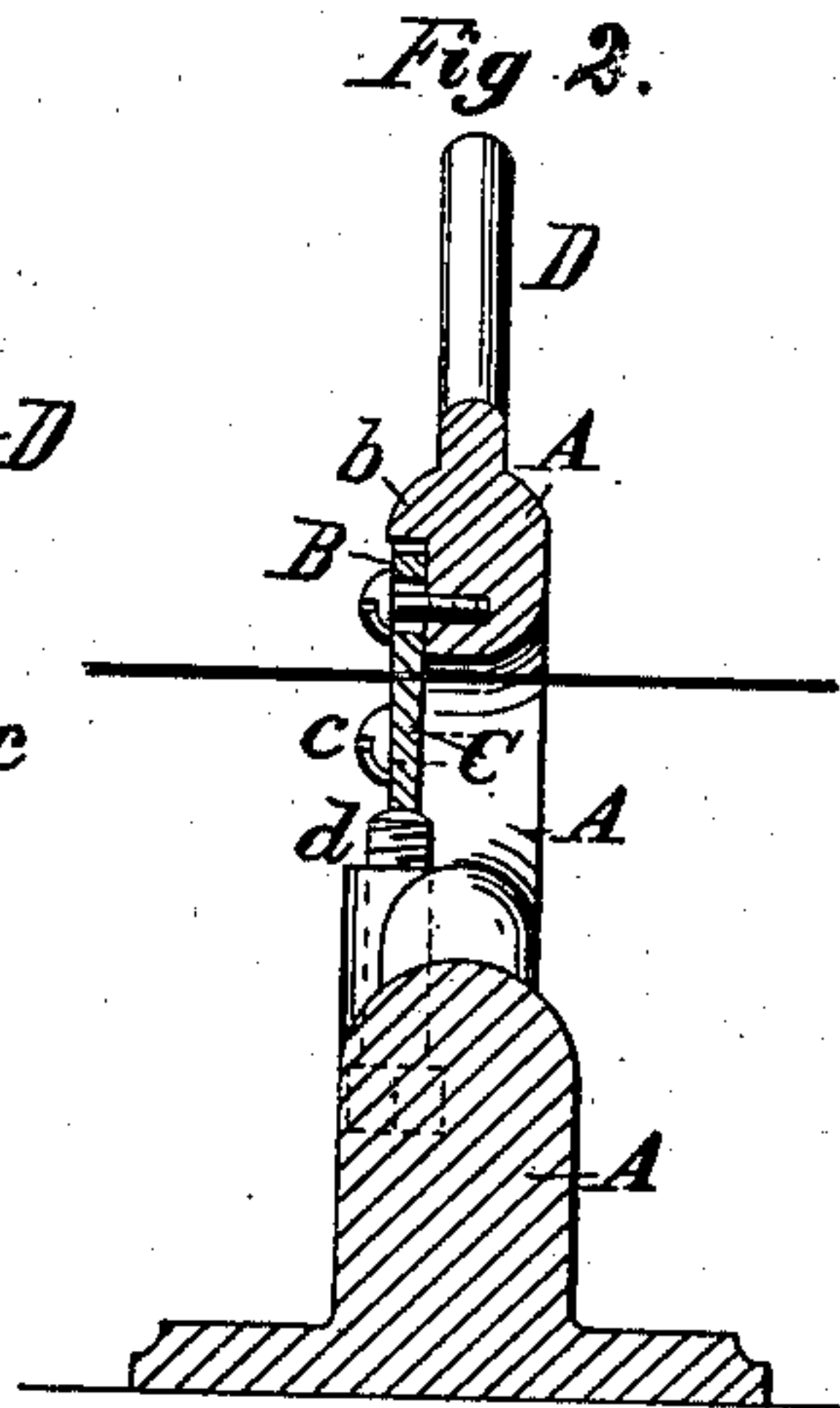
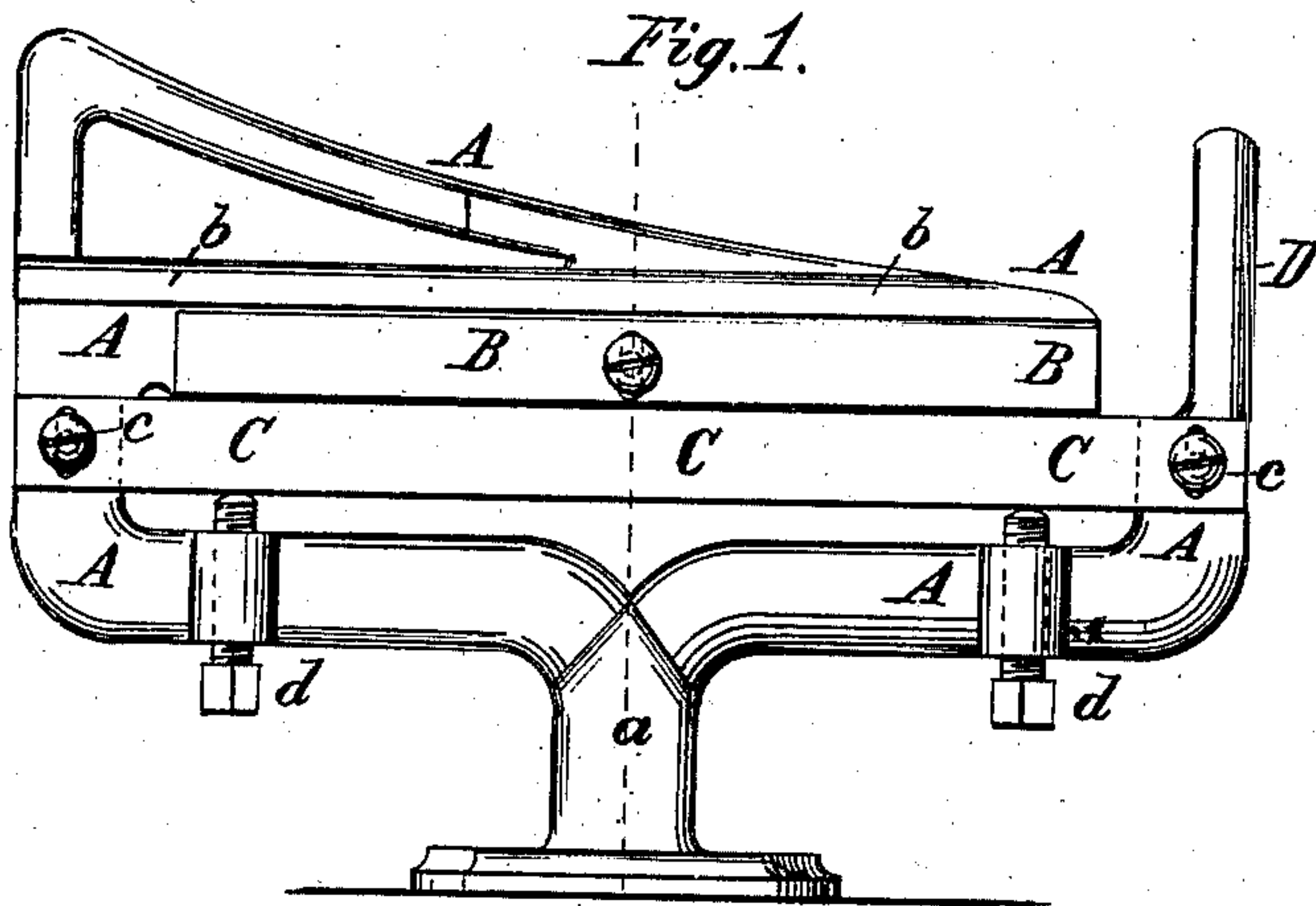


W. G. WATSON.
SILK GLEANER.

No. 74,644.

Patented Feb. 18, 1868.



Witnesses:
Theo. Turke
W. F. Frewin

Inventor:
W. G. Watson
Per *Thos. H. L.*
Attorneys

United States Patent Office.

WILLIAM G. WATSON, OF PATERSON, NEW JERSEY.

Letters Patent No. 74,644, dated February 18, 1868.

IMPROVEMENT IN SILK-CLEANER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM G. WATSON, of Paterson, in the county of Passaic, and State of New Jersey, have invented a new and improved Silk-Cleaner; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a front elevation of my invention.

Figure 2 is a vertical transverse section of the same.

Figure 3 is a front elevation, showing a modification of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new device for cleaning silk while the same is being wound on bobbins, and consists, first, in the use of horizontal instead of vertical guides, whereby the lateral motion of the thread as it is being wound spirally around the bobbin is accommodated. The invention also consists in the arrangement of the cutters or scrapers, which are made reversible; and consists also in the construction of the holder, which is such that when the thread is brought in contact with the upper edge of the holder, it will be guided between the cutters.

A represents the holder, made of cast iron or other suitable material, of the shape represented in fig. 1. Its shape is somewhat similar to that of a letter G, supported upon a post, *a*. The upper arm of the G is horizontal, and is smoothed to receive the upper cleaner or knife B, which is screwed to the holder. The upper edge of the cleaner B rests against a flange, *b*, which is formed on the holder, as shown, so that the said cleaner cannot be adjusted up and down. C is the lower cleaner. The same is secured to the face of the holder by means of suitable screws *c c*, fitting through slots in the cleaner, as shown. Set-screws *d d* arranged in the lower part of the holder, are used to adjust the cleaner C up and down, so that the space between the cleaners may be adapted to finer or coarser thread. The ends of the cleaner C project beyond those of the cleaner B, as is clearly shown in fig. 2. Above one end of the cleaner C projects from the holder A, a post, D, as shown. The upper edge of the upper arm of the G-shaped holder is inclined towards the post D, and ends with the end of the cleaner B, so that when the thread is placed upon the inclined rounded edge of the holder, it will slide down and will fall upon the cleaner C, the post D preventing its slipping off the apparatus. The motion of the thread, as it passes from one end of the bobbin to the other, causes it to move in the slot between the cleaners, and this apparatus will be of much greater value than those heretofore in use, in which the slots were vertical, as the thread will be able to move in the required plane, and will not be twisted and weakened by the apparatus. The cleaner B can be reversed as well as the cleaner C, so that when one edge is dull the other can be used, and thus all the four edges can be employed, while with the ordinary devices, only one edge of each cleaner could be used, owing to the rounded guide corner of each cleaner. Fig. 3 represents a device in which my invention of using the horizontal cleaners is applied with an ordinary set of cleaners, which may be adjusted up and down, but which cannot be reversed.

I claim as new, and desire to secure by Letters Patent—

1. The horizontal frame A, provided with a curved guide A, post D, flange *b*, and stand *a*, all constructed and arranged substantially as and for the purpose set forth.
2. In combination with the above, I claim the fixed knife B, and adjustable knife C, when said knives B and C are horizontally arranged and reversible, substantially as and for the purpose set forth.
3. In combination with the frame A and knife C, I claim the adjusting-screws *d d*, substantially as set forth.
4. The silk-cleaner constructed substantially as described, and consisting of the frame having curved guides A, post D, stand *a*, and flange *b*, fixed knife B, adjustable knife C, and screws *d c*, all arranged as set forth.

WM. G. WATSON.

Witnesses:

JNO. BRUSH,
LEWIS BEST.