

M. Sargent
Twisting Head for Spinning Mach.
N^o 11,812. Patented Oct. 17, 1854.

Fig. 1.

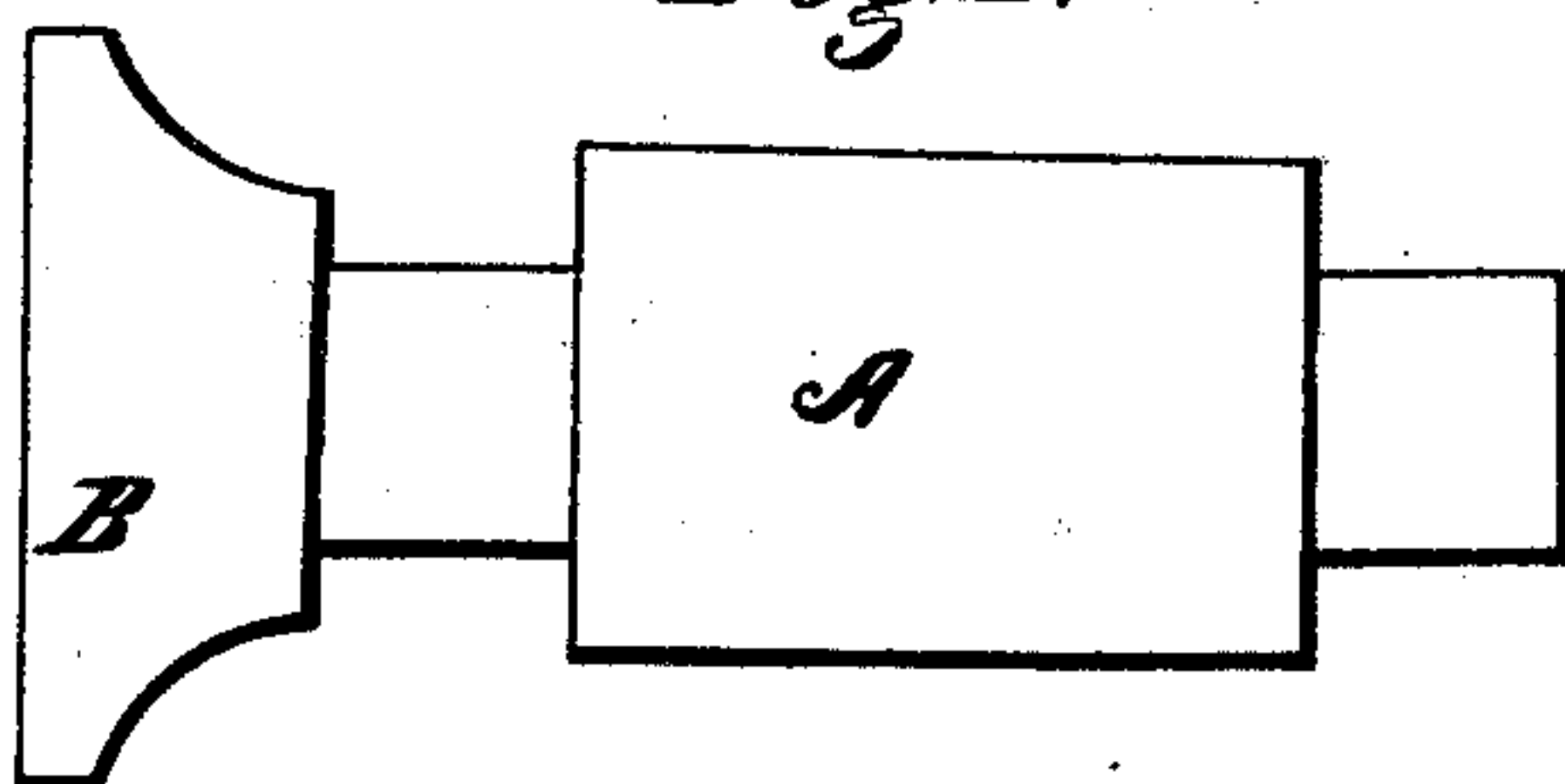


Fig. 2.

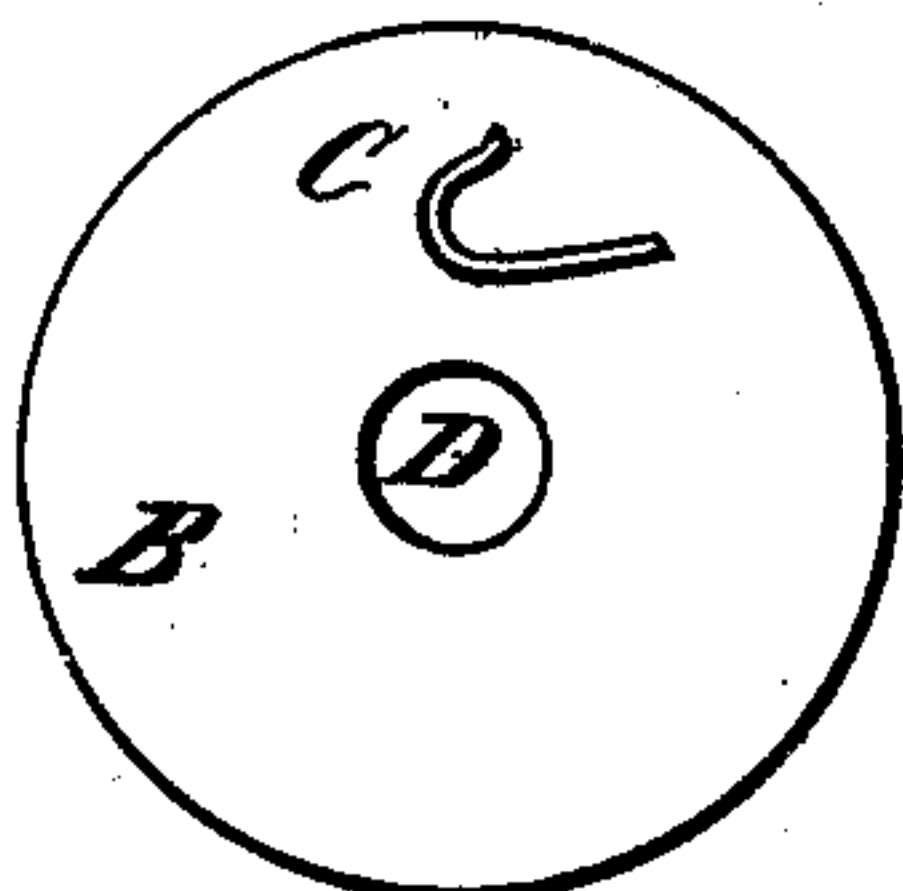
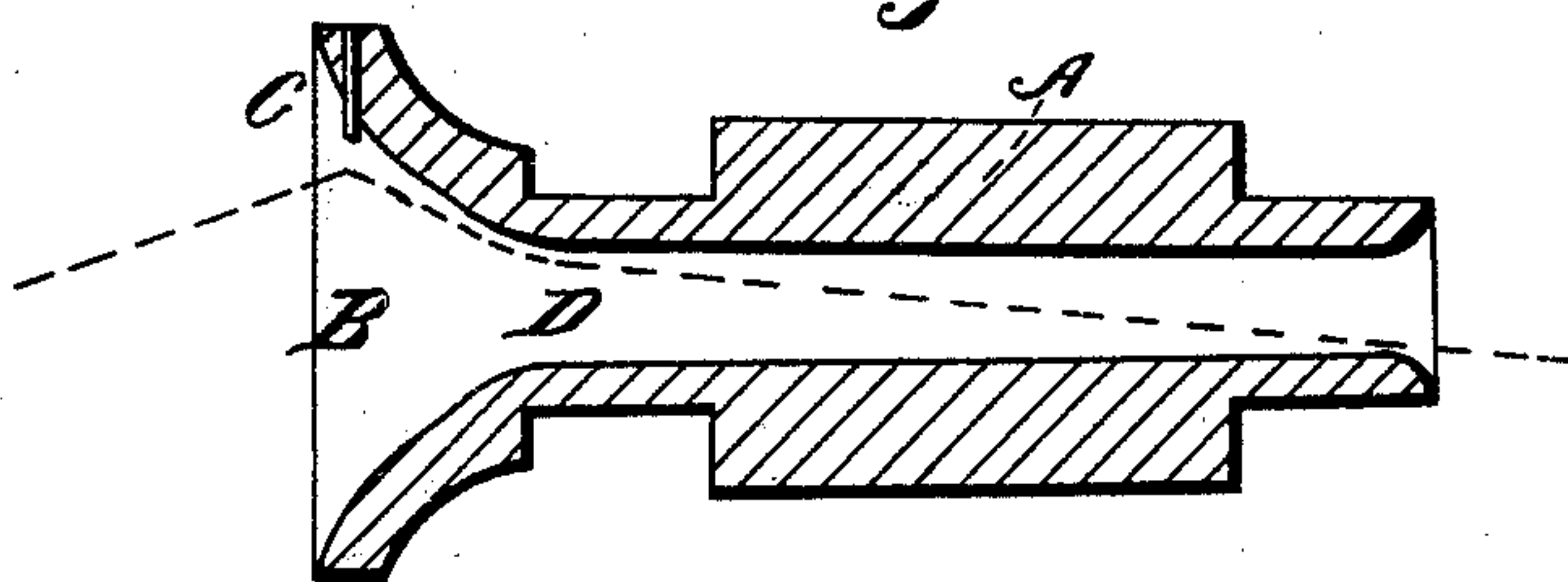


Fig. 3.



Witnesses:

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Inventor:

Moses Sargent.

UNITED STATES PATENT OFFICE.

MOSES SARGENT, JR., OF MEREDITH, NEW HAMPSHIRE.

ROVING-TUBE.

Specification of Letters Patent No. 11,812, dated October 17, 1854.

To all whom it may concern:

Be it known that I, MOSES SARGENT, JR., of Meredith, in the county of Belknap and State of New Hampshire, have invented a
5 new and useful Improvement in Roving-Tubes for Condensing Roving; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in
10 which—

Figure 1 is a side view showing the tube with my improvement. In this view the tube is represented as ready to introduce a
15 hook to take up a broken roving. Fig. 2 is an end elevation of the same showing the mouth or front end. Fig. 3 is a longitudinal section of the same. In this view the roving is represented by the dotted lines
20 and ready to be condensed by the tube.

Similar letters of reference in each of the several figures indicate corresponding parts.

The first part of this invention relates to the novel manner hereinafter described of
25 arranging and combining the main parts of the tubes, said parts consisting of the bell shaped mouth or front end of the tube and the hook or hooks for holding the roving while being condensed by thus combining
30 and arranging these parts I dispense with the necessity of stopping any part of the machine to mend broken rovings (not even the tube through which it is desired to draw the broken roving) the shape of the mouth
35 may be varied.

The second part of my invention consists in the peculiar manner of arranging the hook or hooks to deviate the roving sufficiently one side of the center of the tube to
40 insure its being condensed also so that should the roving break to leave the throat or center of the tube clear for the purpose of introducing a hook to take up the broken roving, consequently a great saving of time
45 and labor is effected and withal the machine is rendered capable of doing more work in a

given time and in a perfect manner than any other machine now in use for a similar purpose. Again the cost of constructing the tubes is much reduced also the liability of
50 getting out of repair is very essentially reduced as also is the cost of repairs.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation. 55

A represents the tube made of iron or other suitable material and of the usual form except the front end or part required to hold and condense the roving as shown in
60 the drawing.

B, is the bell shaped mouth or front end.

C, is a hook one or more to hold, and condense the roving during the operation of the tube, and attached to the side of the mouth.

D is the throat or center through which
65 the hook is to be passed to take up a broken roving. The operation of this tube is as follows: The machine being set in operation the roving is drawn through the tubes with a hook when it will instantly catch in the
70 hook C in the manner shown in Fig. 3. It is then carried and attached to the spool in the usual manner. Then should a roving break the hook can be introduced as before and the roving mended again. The roving
75 at the same time will catch upon the hook as desired the same as though the machine had been stopped to mend it.

What I claim as my invention and desire to secure by Letters Patent is— 80

Combining with the common trumpet mouth roving tube one or more hooks so as at all times to secure the condensing of the roving while unbroken and permit a broken roving to be placed without stopping the
85 machine or even a single tube in the manner substantially as described and set forth.

MOSES SARGENT, JR.

Witnesses:

E. C. HASERICK,
JOHN M. SARGENT.