

No. 607,635

Patented July 19, 1898.

F. S. CULVER.

ADJUSTABLE ROLL FRAME FOR SPINNING MACHINES.

(Application filed Nov. 6, 1897.)

(No Model.)

Fig. 1

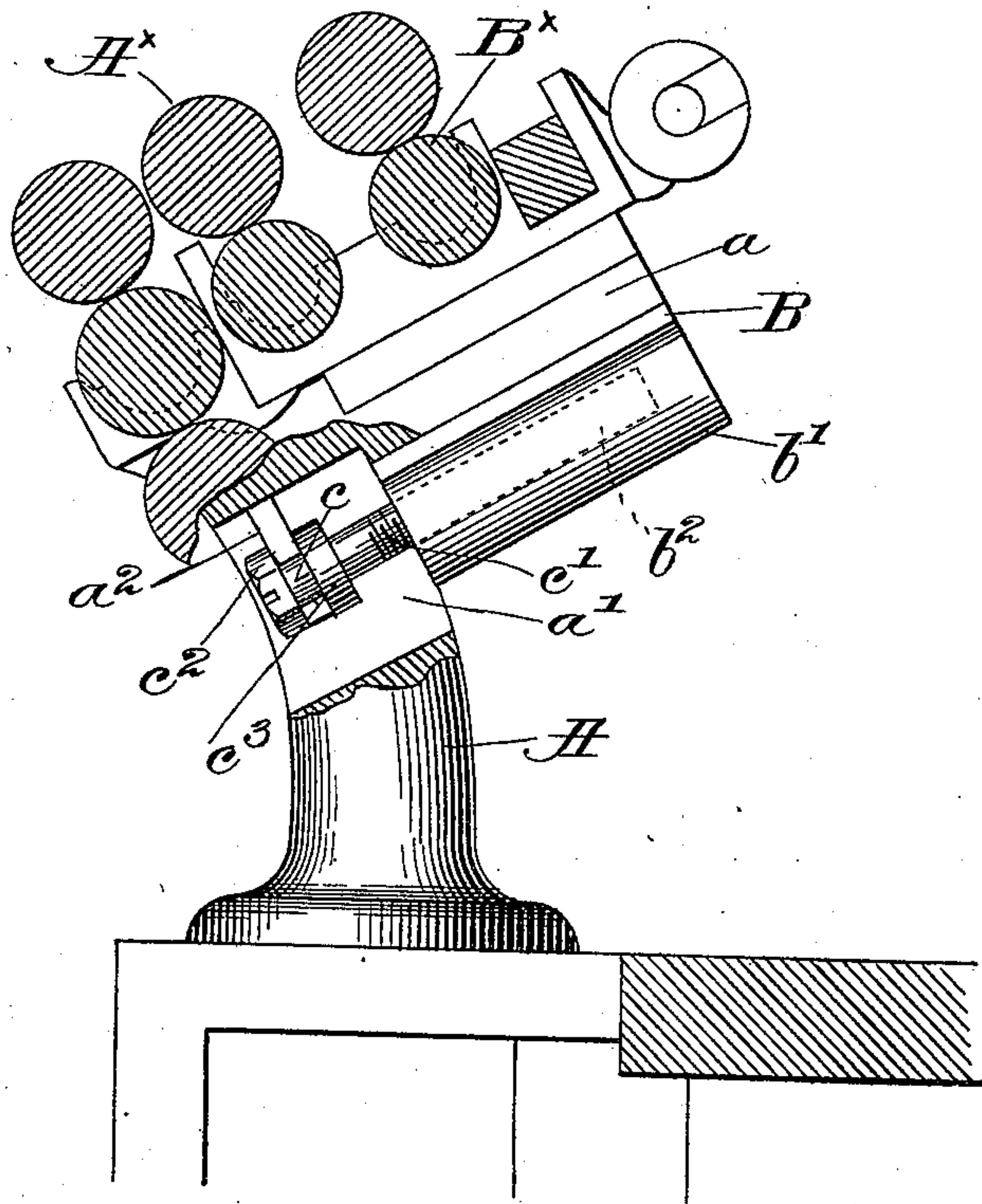


Fig. 4.

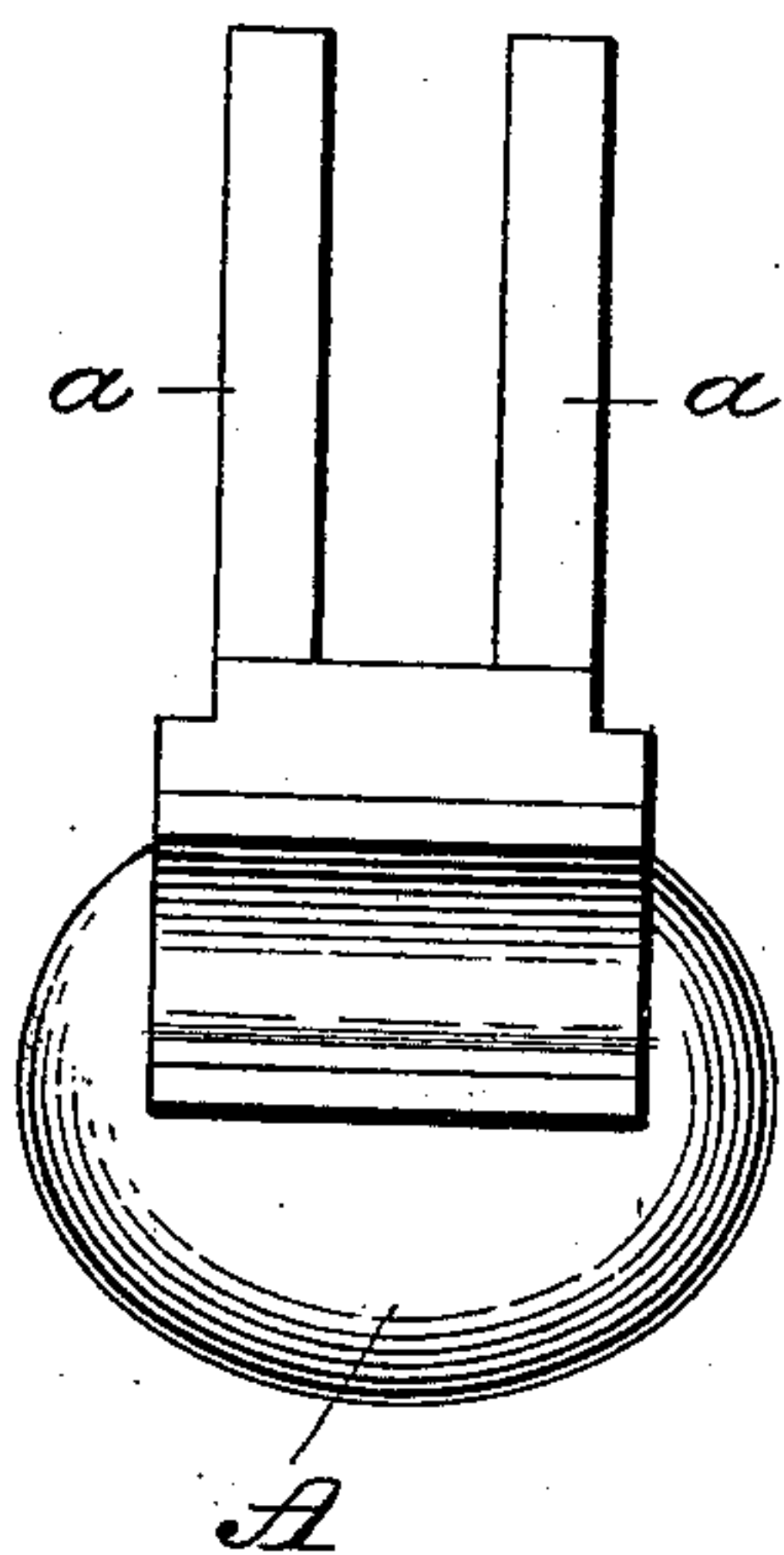


Fig. 2.

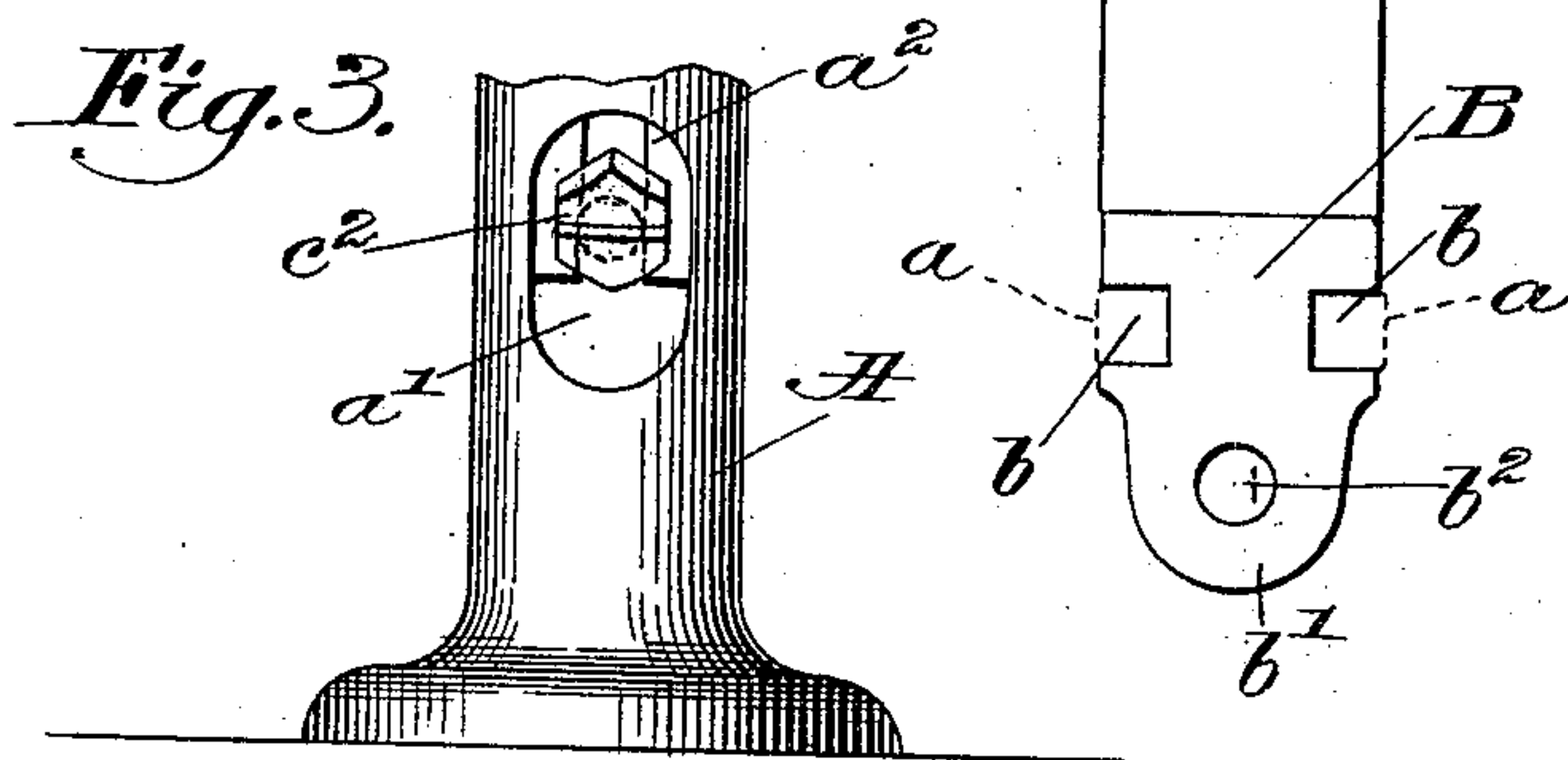
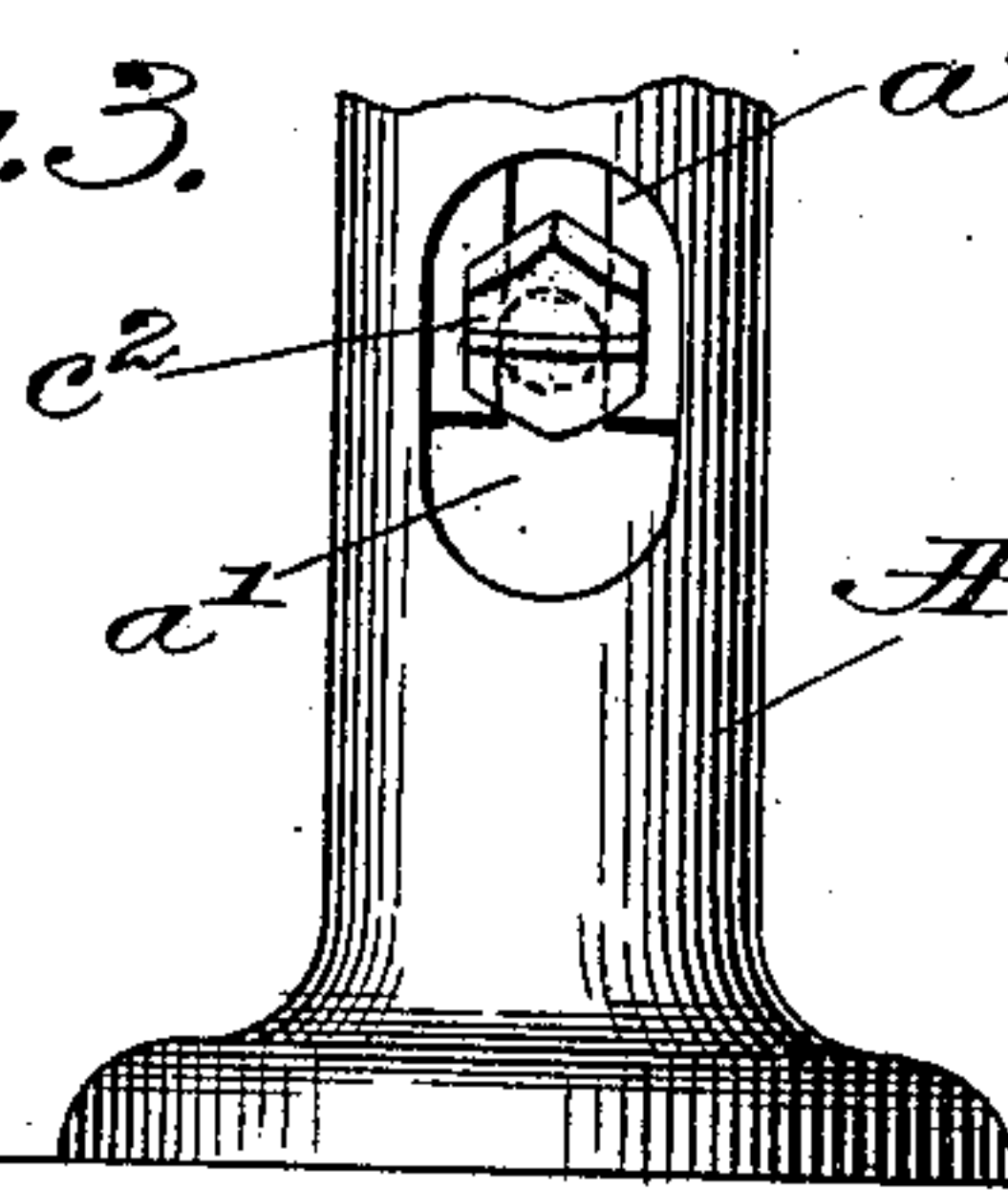


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

FREDERICK S. CULVER, OF TAUNTON, MASSACHUSETTS.

ADJUSTABLE ROLL-FRAME FOR SPINNING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 607,635, dated July 19, 1898.

Application filed November 6, 1897. Serial No. 657,602. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK S. CULVER, of Taunton, county of Bristol, State of Massachusetts, have invented an Improvement in Adjustable Roll-Frames for Spinning-Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object the production of simple and effective means for adjusting the drawing-rolls on a spinning or other similar machine without necessitating the removal of the rolls in order to effect the adjustment and while the machine is running.

Figure 1, in side elevation and partly in section, represents a sufficient portion of a roll-stand to be understood with my invention embodied therein. Fig. 2 is a front end view of the stand with the rolls omitted. Fig. 3 is a front elevation of a part of the supporting-standard, and Fig. 4 is a top or plan view of the standard with the roll-stand omitted.

The standard A, of usual shape, is provided at its upper end with a rearwardly-extended portion longitudinally slotted to form guideways a , (see Fig. 4 and dotted lines, Fig. 2,) on which the lower-roll stand B is adapted to move. Said stand is longitudinally grooved at each side, as at b , Fig. 2, to receive and slide upon the guideways a of the standard A, the lower part b' of the stand having a longitudinal threaded opening b^2 therein extended from its front end.

The standard A is cut through at a' to leave two opposite ribs a^2 between the front and back of the standard and separated as shown in Fig. 3.

A stud c , having a threaded shank c' to enter the hole b^2 in the stand B, is provided at its outer end with a slotted head c^2 and an annular collar c^3 , separated sufficiently to permit the entrance of the ribs a^2 between them. The stud is inserted by passing the collar c^3 through the lower portion of the opening a' and then raising the stud c into the position between the ribs shown in Figs. 1 and 3 and screwing the threaded end of the stud into

the hole b^2 in the stand B, the latter holding the stud up in place. Obviously the stud may be rotated by the application of a screw-driver to the head c^2 , while the ribs a^2 prevent longitudinal movement, and the rotative movement of the stud will thus act to move the lower-roll stand B, with its rolls B^x , toward the front or rear, adjusting the lower rolls B^x relatively to the top rolls A^x . Such adjustment is thus effected easily and rapidly without the removal or derangement of any of the rolls, and great nicety of adjustment can be effected while the machine is running. This latter feature is broadly new, so far as I am aware, for heretofore it has not been possible to adjust the rolls while the machine was running.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In an apparatus of the class described, an upright standard having a rearward, longitudinally-slotted extension to form guideways, and an opening in the standard below said guideways, provided with opposite retaining-ribs, a headed screw-stud rotatably mounted in the opening in the standard below said guideways and accessible from the front of the standard, the ribs engaging and preventing longitudinal movement of the stud, and a lower-roll stand longitudinally grooved at each side to receive and slide upon the guideways and having a portion depending between and below the latter, said depending portion being provided with a threaded hole to be engaged by the screw-stud, whereby rotation of the latter will effect adjustment of the stand on the guideways toward or from the front of the standard, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FREDERICK S. CULVER.

Witnesses:

JOHN C. EDWARDS,
AUGUSTA E. DEAN.