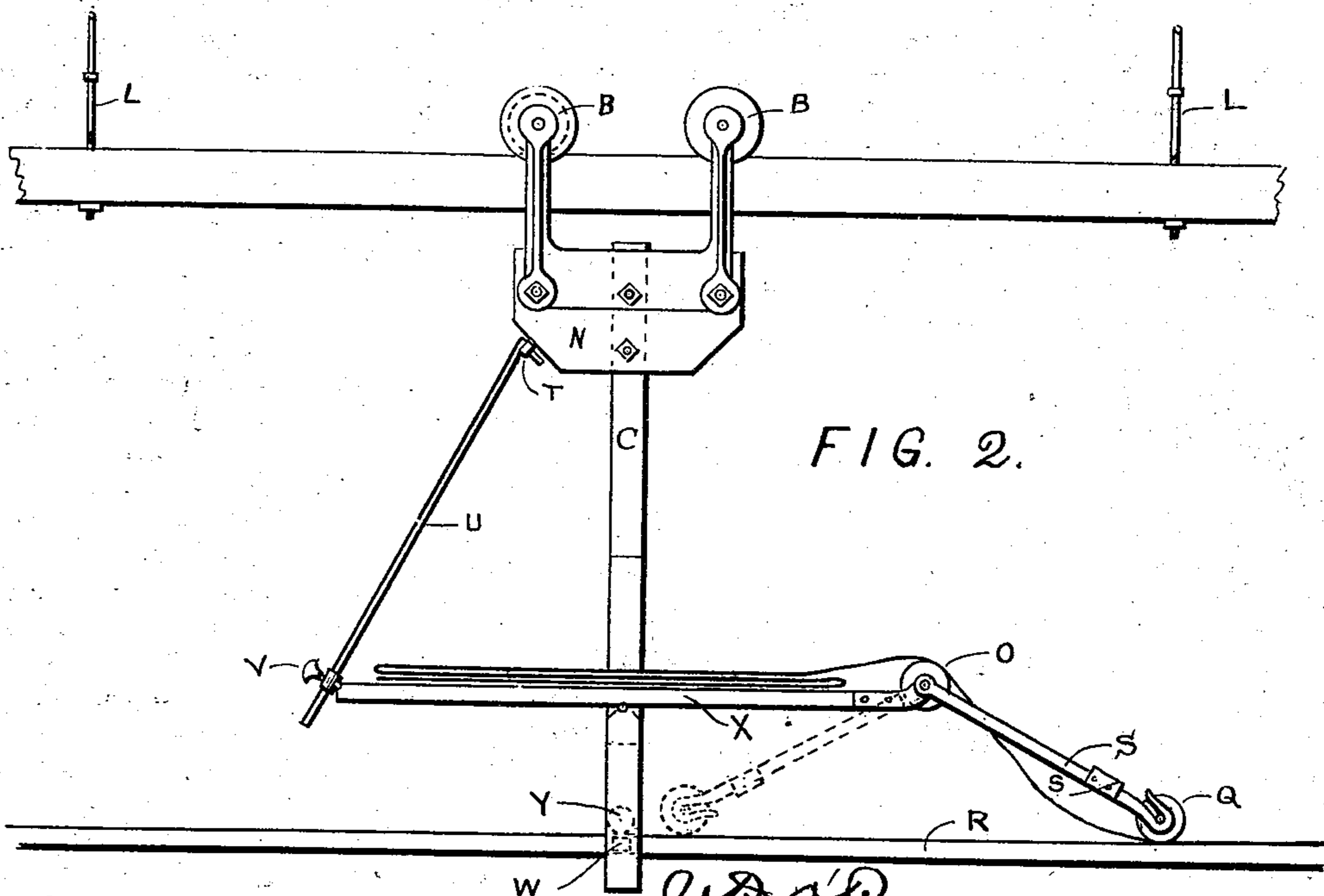
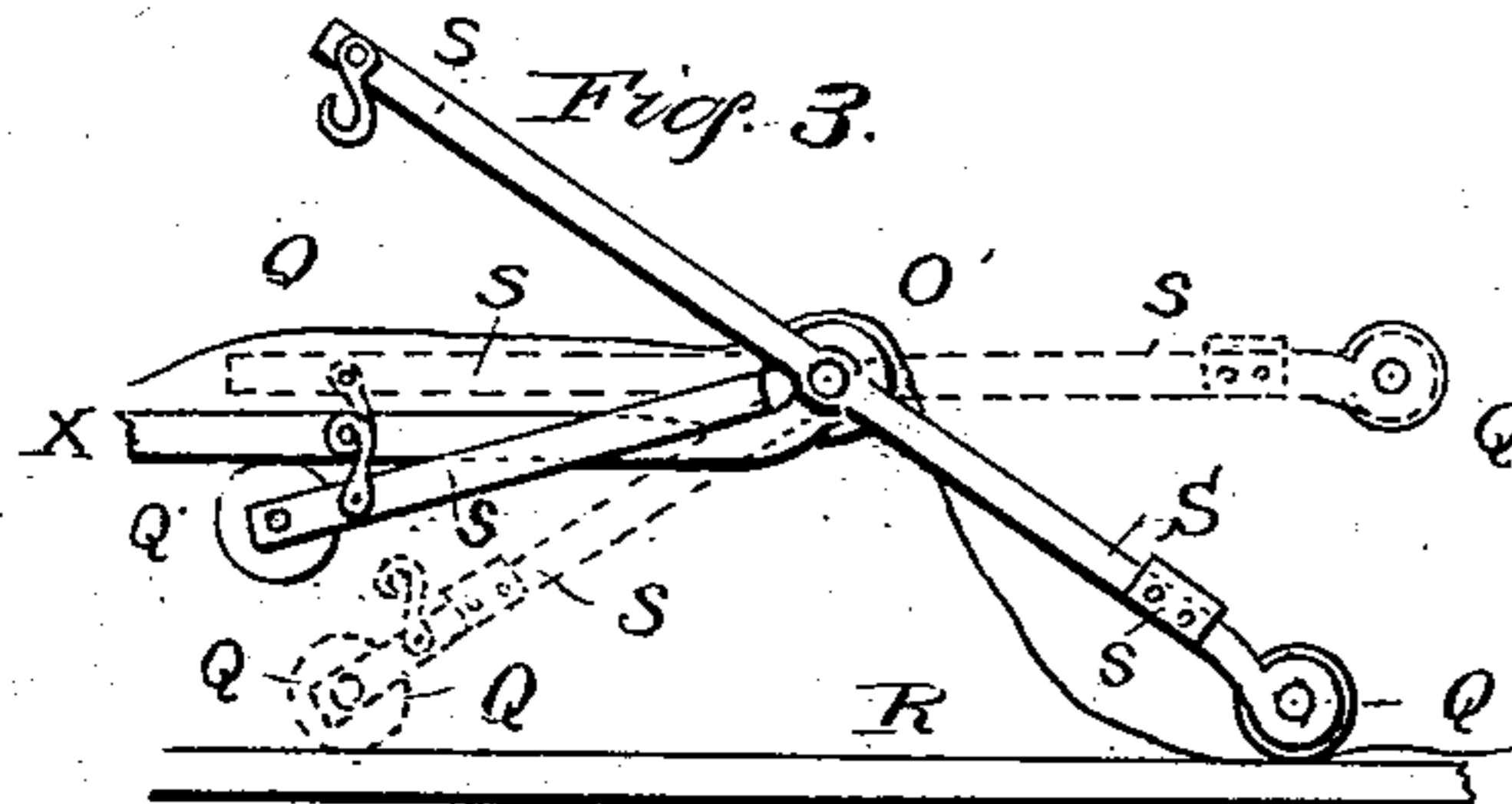
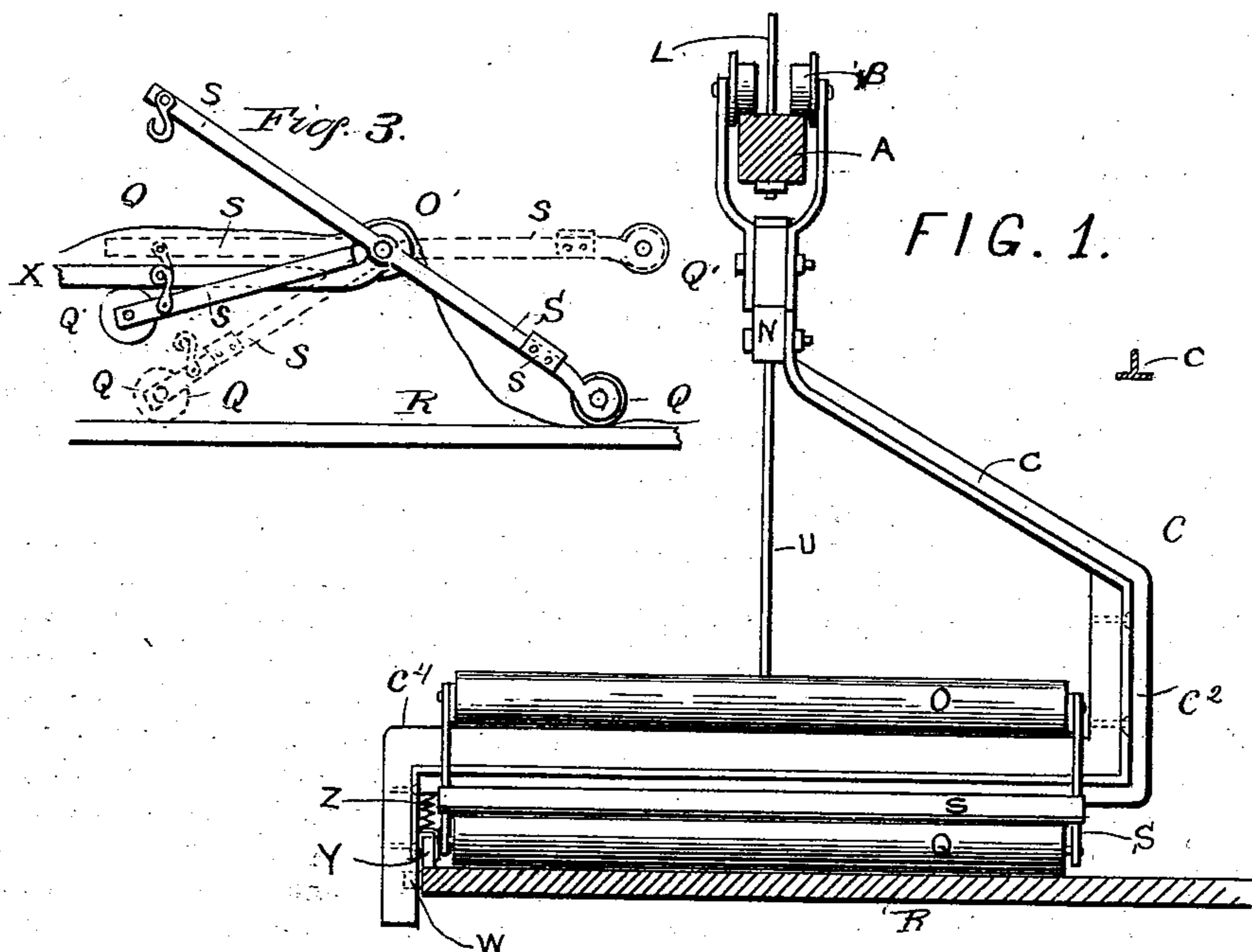


(No Model.)

J. B. O'BRYAN.
CLOTH PILING MACHINE.

No. 506,536.

Patented Oct. 10, 1893.



Witnesses.
Louis G. Walker
J. B. O'Bryan

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UNITED STATES PATENT OFFICE.

JOSEPH B. O'BRYAN, OF NASHVILLE, TENNESSEE.

CLOTH-PILING MACHINE.

SPECIFICATION forming part of Letters Patent No. 506,536, dated October 10, 1893.

Application filed June 10, 1893. Serial No. 477,222. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH B. O'BRYAN, a citizen of the United States, residing at Nashville, in the county of Davidson and State of Tennessee, have invented certain new and useful Improvements in Machines for Piling Cloth and other Textile Fabrics; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in machines for piling cloth and other textile fabrics which come in folds, and it consists in the construction and arrangement of parts which will be hereinafter fully described, and particularly pointed out in the claims.

My present invention is a modification of the cloth piling machine shown and described in my application filed February 21, 1893, Serial No. 463,176, and is designed to adapt the use of a traveling carriage for the measuring of fabrics which come in folds, such as bleached muslin, brown muslin, and the like.

In my application filed February 21, 1893, a carriage is shown adapted to travel upon a track suspended over and longitudinally of a cloth displaying and measuring table, between the extended arms of which carriage rolls of cloth can be held in such a manner that when the carriage is moved along upon the overhead track, the cloth will be rolled off and displayed. While this device is well suited for cloth which comes in rolls, it cannot be used with cloth which comes in folds, owing to the fact that it does not provide suitable means for holding the cloth. It is the object of the present invention to so adapt and modify this carriage that it can be used to display goods coming in folds.

I attain the object of my invention by making the carriage, which supports the platform on which the goods are to be laid, in one piece, bending it outward and downward, and then horizontally across the measuring table in such a manner as to form a pivot, upon which the platform, which is to afford support for the goods to be displayed, can be pivotally supported. Means are provided by which the inclination of the platform with reference to the displaying table can be regulated as desired.

My invention is fully represented in the drawings accompanying and forming a part of this application, in which the same reference letters refer to the same or corresponding parts, and in which—

Figure 1 is a front view of my cloth piling machine, and Fig. 2 a side view of the same. Fig. 3 is a view of a modified form of the frame carrying the adjustable roll, under which the cloth passes before being displayed.

Referring to the drawings, A represents a track, suspended at any desired height over, and horizontally of the displaying or measuring table, by the supports L, although it may of course be supported in any other suitable manner. Upon this track run the flanged rollers B, to which the piece N is pivotally secured by side rods, the said piece being thus suspended below the rail A. To the piece N is secured the upper end of the carriage C, which is made of a single piece of metal, and bent in such a manner that a portion of it, of a width slightly greater than that of the platform to be supported thereby, extends horizontally across the displaying or measuring table. This is accomplished by bending the carriage C commencing at the point where it is attached to the piece N, outwardly and downwardly, forming the portion C²; then horizontally across the table, forming the portion C³; then again downwardly, forming the portion C⁴, the horizontal portion being of the desired width, and at a desired height from the table. A roller Y is journaled in the inner side of the portion C⁴ of the carriage, so as to bear against and roll upon the table, thus supporting a portion of the weight of the carriage and goods. To provide for riding over any inequalities of surface of the displaying table, this roller is made vertically movable, but is held constantly pressed against the table by the spring Z. In the portion C⁴ of the carriage C is also mounted the roll W, which rests against the side of the table R and tends to prevent any side motion of the carriage.

Pivotally mounted upon the horizontal portion of the frame C is the platform X, upon which the goods to be displayed are placed. An arm, U, attached to the piece N at T, and adjustably attached to the said platform at one end thereof by the set screw V,

enables the inclination of the platform with reference to the displaying table to be adjusted at any desired angle. At one end of the platform X is journaled the roller O, which extends the whole width of the platform, and at this point is also journaled the swinging frame S, in the lower end of which is removably held the pressure roller Q. The roller Q is thus adjustable in position and can be moved around the pivot formed by the point of attachment to the platform X of the swinging frame S. It is designed that the cloth upon the platform should first pass over the roller Q, and then be laid smoothly upon the table by passing under the roller Q, and the object in so mounting the said roller that it can be moved back and forth around a pivot is to provide for its performing its function of laying the cloth smoothly upon the table in whichever direction the carriage may be moved. A cross piece s affords rigidity to the swinging frame S.

Another method of providing for the proper action of the roller Q as the carriage C is moved back and forth on the over head track is shown in Fig. 3. In this figure there are two rollers Q provided, each of which is mounted on the arm S. One of the rolls is to operate when the carriage is moved in one direction, and the other when the carriage is moved in the opposite direction. The rolls are held out of the way, when not in use, by being hooked to the platform X in the manner shown, the arm S bearing the forward roll being upwardly extended, and the hook being attached at the upper end of the same. Either roller can be raised, or allowed to rest upon the table by hooking or unhooking the same to the platform X.

The operation of my device is as follows:— A piece of bleached muslin or other fabric which comes in folds, is placed upon the platform S, which has first been adjusted at any desired angle with reference to the table R in the manner described. A fold of this cloth is passed by hand over the roller O, and under the roller Q, until it can be fastened to the table R. The carriage is then moved along the table the desired distance, the cloth being fed out easily and laid smoothly upon the table. When the desired length has been paid out, the motion of the carriage may be reversed, the adjustable pressure roller being first put in its proper position, and another length of goods laid out, both faces of the goods being thus brought together.

My device is very cheap in construction, is easily placed in position, and will greatly facilitate the displaying of fabrics that come in folds. The platform could be used in con-

nection with the carriage shown in my application above referred to, but not so conveniently as with the present form of carriage.

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

1. In a machine for piling cloth and other textile fabrics, the combination with a track suspended over and in line with the measuring table, of a carriage, formed with a bent arm extending horizontally across the measuring table, provided with wheels moving on said track, a platform pivotally mounted on said horizontal arm, and means for adjusting the inclination of the platform, substantially as described.

2. In a machine for piling cloth and other textile fabrics, the combination with a track suspended over and in line with the measuring table, of a carriage, formed with a bent arm extending horizontally across the measuring table, provided with wheels moving on said track, a platform pivotally mounted on said horizontal arm and provided with means for adjusting its inclination, and an adjustable roller or rollers attached to the carriage, or framework connected therewith, substantially as described.

3. In a machine for piling cloth and other textile fabrics, the combination with an overhead track, of a carriage supported by and movable along said track, a platform pivotally mounted upon said carriage upon which the goods to be displayed may be laid, and the rod U and set screw V for adjusting said platform to any desired inclination, substantially as described.

4. In a machine for piling cloth and other textile fabrics, the combination with a track A, of the carriage C suspended by and movable along said track, the platform X, pivotally mounted on said carriage and provided with means for adjusting its inclination, and the vertically-movable, spring-pressed roller Y, substantially as described.

5. In a machine for piling cloth and other textile fabrics, the combination with a track A, of the carriage C suspended by and movable along said track, the platform X, pivotally mounted on said carriage and provided with means for adjusting its inclination, the vertically-movable, spring-pressed roller Y, and the guide roller W, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH B. O'BRYAN.

Witnesses:

J. C. SWINT,

ROBERT SHARP.