

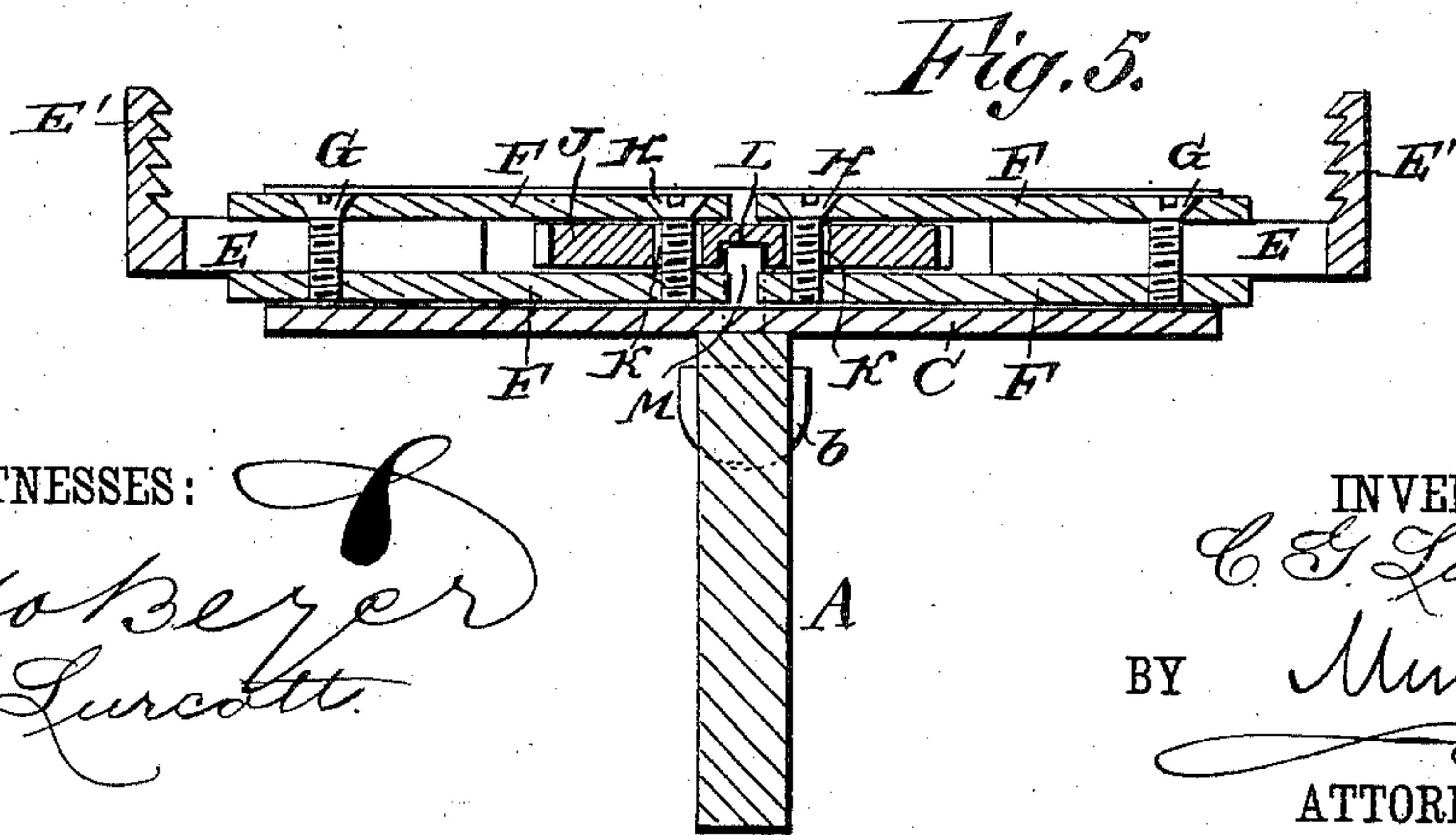
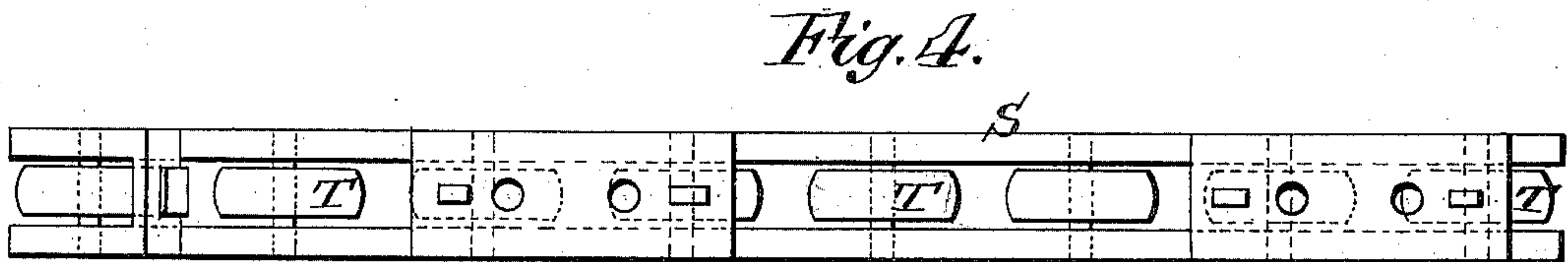
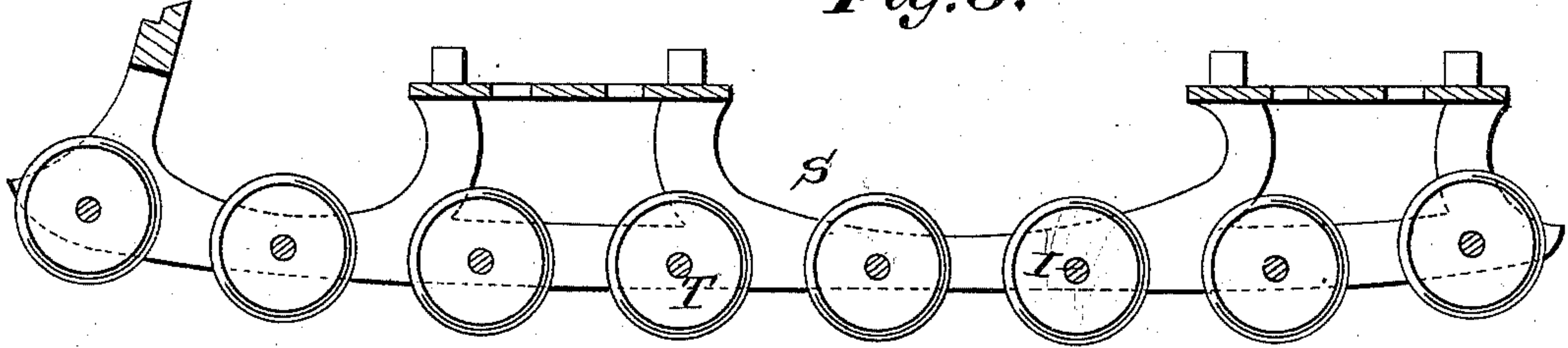
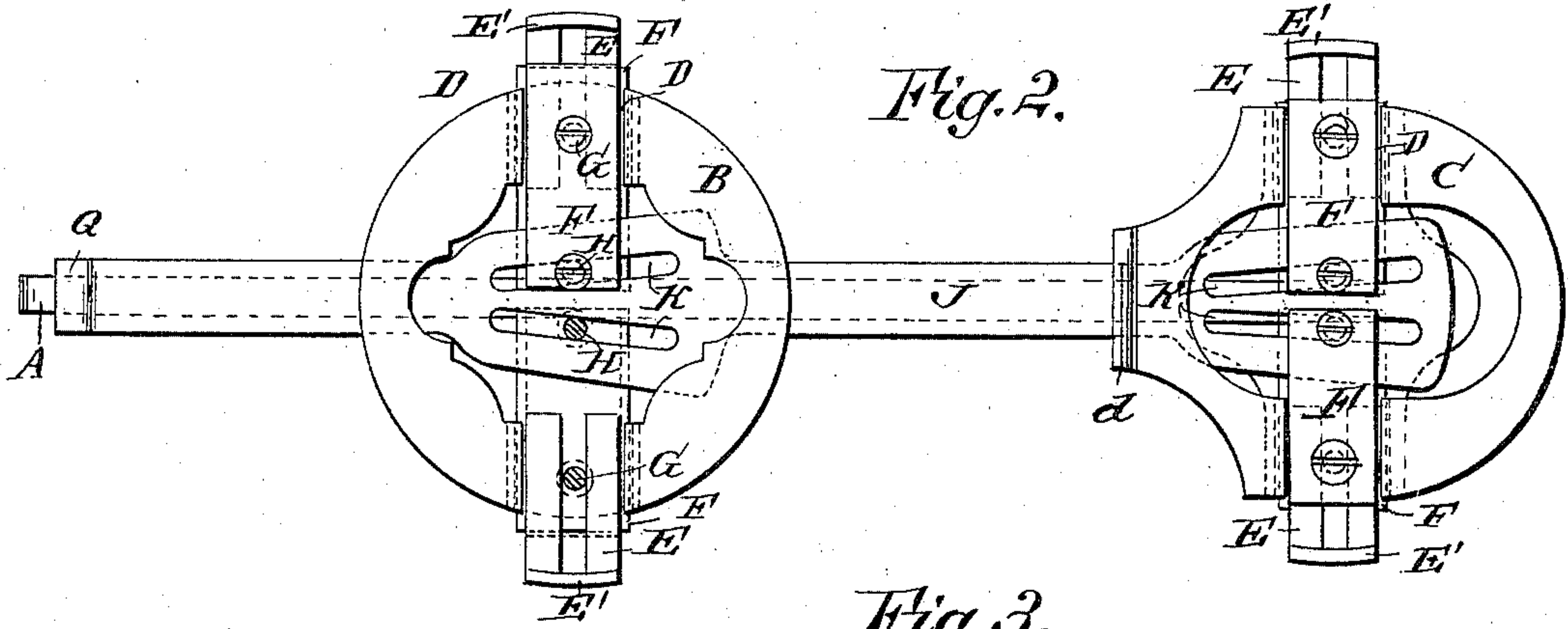
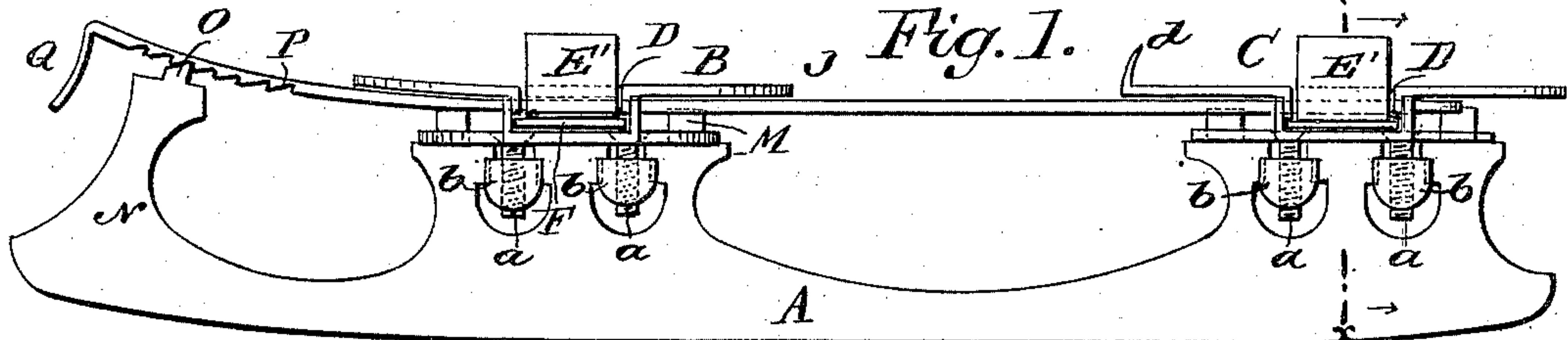
(No Model.)

C. G. LAMONT.

SKATE.

No. 324,564.

Patented Aug. 18, 1885.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

CHARLES GRANT LAMONT, OF ASTORIA, OREGON.

## SKATE.

SPECIFICATION forming part of Letters Patent No. 324,564, dated August 18, 1885.

Application filed September 11, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES GRANT LAMONT, of Astoria, in the county of Clatsop and State of Oregon, have invented certain new and useful Improvements in Skates, of which the following is a full, clear, and exact description.

The object of my invention is to provide certain new and useful improvements in the fastening devices in skates.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal elevation of my improved skate, showing it provided with a runner. Fig. 2 is a plan view of the same, with a part in section. Fig. 3 is a longitudinal sectional elevation of the roller-frame. Fig. 4 is a plan view of the same. Fig. 5 is an enlarged cross-sectional elevation of the skate on the line *x x*, Fig. 1.

A runner, A, of the usual construction, is held by screws *a* and nuts *b* on the circular front plate, B, and the heel-plate C, both plates being provided with transverse grooves D for receiving clamping-jaws E, having their ends E' bent up, and provided on their inner sides with downwardly or laterally projecting teeth. The clamps E are forked or slotted longitudinally, and have their inner ends held between the plates F in the grooves D, the said plates being held together at their outer ends by screws G passed through slots in the clamping-plates E, and at the inner ends by screws H. If the screws G are loosened the clamping-plates E can be adjusted to project a greater or less distance from the outer ends of the plates F, and can be locked in place by drawing up the screws G. The clamping-plates can thus be adjusted for any size foot. A flat strip, J, extending the entire length of the skate, passes under the raised parts of the plates B and C, and over the grooves D, and is provided at the plate B and at the plate C with slots K, arranged equidistant from the longitudinal central line of the said strip, and inclined outward and from each other from the front to the rear end of the skate. The screws H, passing through the inner ends of the plates

F, pass through the said slots K. The strip J is provided on its under side with longitudinal grooves L, into which upwardly-projecting prongs M, formed on the runner A, pass. On the front upwardly-projecting part, N, of the runner A a stud, O, is formed, which is beveled upward and toward the rear. On the under side of the front part of the strip J teeth P are formed, which are inclined downward and toward the front, and on the front end of the said strip J a downwardly-projecting handle-lug, Q, is formed. The heel-plate C is provided with a front prong, *d*.

The skate is adjusted in the following manner: The clamping-plates E are first adjusted to the width of the foot and heel, and then the front end of the strip J is raised and pulled toward the front end of the skate, whereby the screws H in the slots K will be pressed from each other and the clamping-plates E moved outward, thus permitting the foot to be placed on the skate. The strip J is then pushed toward the rear end of the skate, whereby the clamping-plates E are moved toward each other, and their serrated ends E' are pressed against the edges of the sole and heel, thus holding the skate in place. If the skate becomes loosened it is only necessary to push the strip J toward the rear. The teeth P, engaging with the stud O, automatically lock the strip J and the clamping-plates E in place. To remove the skate it is only necessary to raise the front end of the strip J and pull it toward the front.

In place of the single runner A, (shown in Figs. 1 and 2,) the double runner S (shown in Figs. 3 and 4) can be used, which consists of two parallel runners, united by cross-pieces at the front and below the plates B and C. Between the said runners rollers T are arranged, which project a short distance below the bottom edges of the runners, and are mounted to revolve on spindles I, held in the runners S; or the rollers can be rigidly mounted on the spindles and the said spindles journaled in the runners. The rims of the rollers are made convex—that is, the diameter of the said rollers is greater along the longitudinal central line than at the sides, so as to permit of running with the skate at a slight inclination



to the surface on which it runs. A greater or less number of rollers may be provided, as may be desired.

If desired, the front prong or jaw, *d*, for clamping the skate on the heel may be connected with the sliding strip J, so that when the said strip is pushed toward the rear of the skate the said prong or jaw *d* will be pressed against the front of the heel.

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

1. In a skate, the combination, with the plates B C, having transverse grooves, of a runner held on the said plates and provided with upwardly-projecting guide-lugs M, the clamping bars or plates E, on the plates B C, and the longitudinally-sliding strip J, for actuating the clamping-plates, which strip J is provided on its under side with longitudinal

grooves in which the guide-lugs M pass, substantially as herein shown and described.

2. In a skate, the combination, with the runner A and the plates B C, of the clamping-plates E, the longitudinally-sliding strip J for actuating the clamping-plates, and provided on its under side with teeth P, and the upwardly-projecting stud or pin O on the front part of the top of the runner, substantially as herein shown and described.

3. In a skate, the combination of the toe and heel plates, having pendent screws, and the nuts fitted upon said screws and securing the runner to said plates, substantially as and for the purpose set forth.

CHARLES GRANT LAMONT.

Witnesses:

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