

(No Model.)

3 Sheets—Sheet 1.

D. J. LINDSEY.

APPARATUS FOR OPERATING RAILWAY SIGNALS.

No. 267,436.

Patented Nov. 14, 1882.

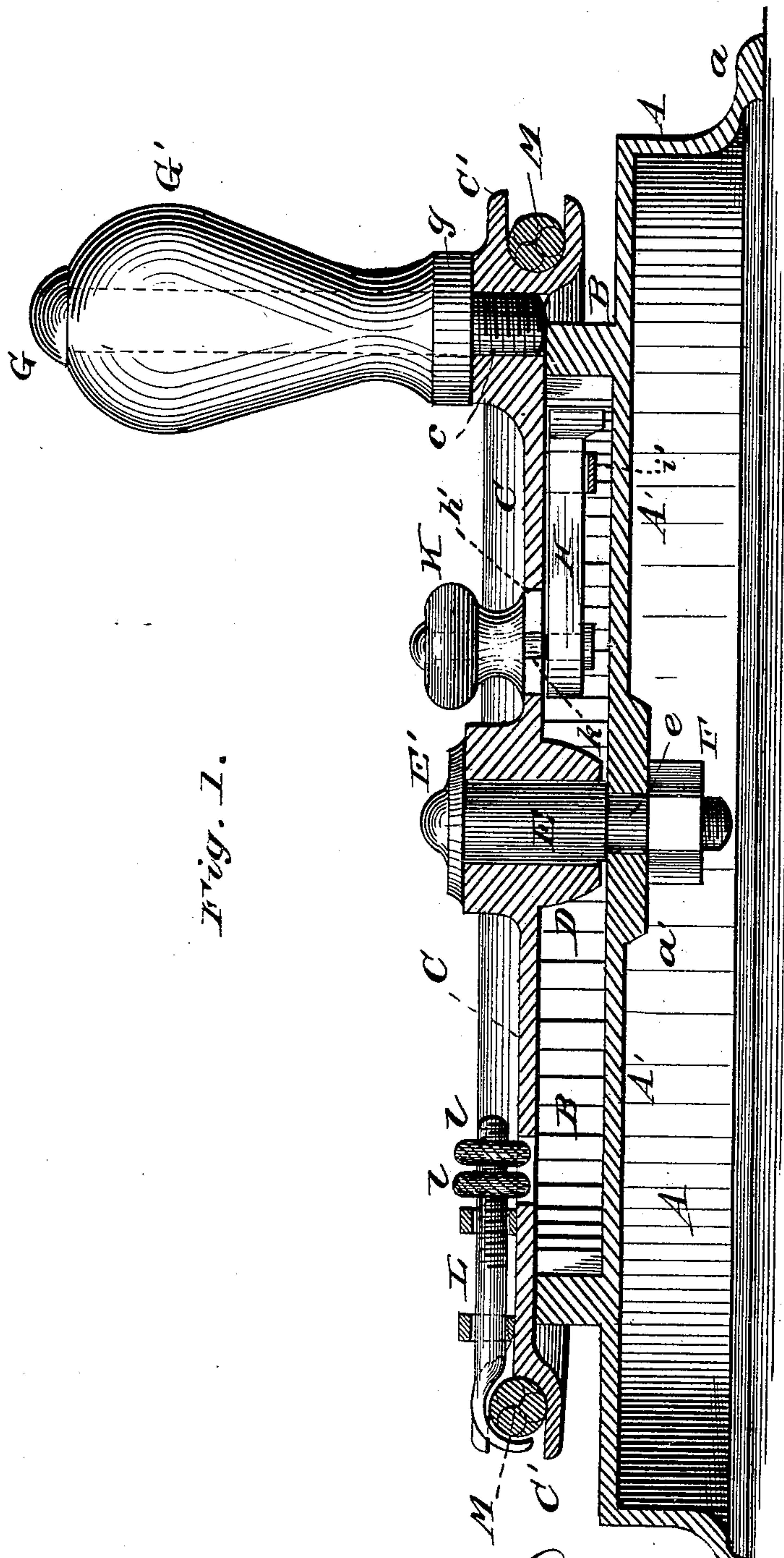


Fig. 1.

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ATTORNEYS.

(No Model.)

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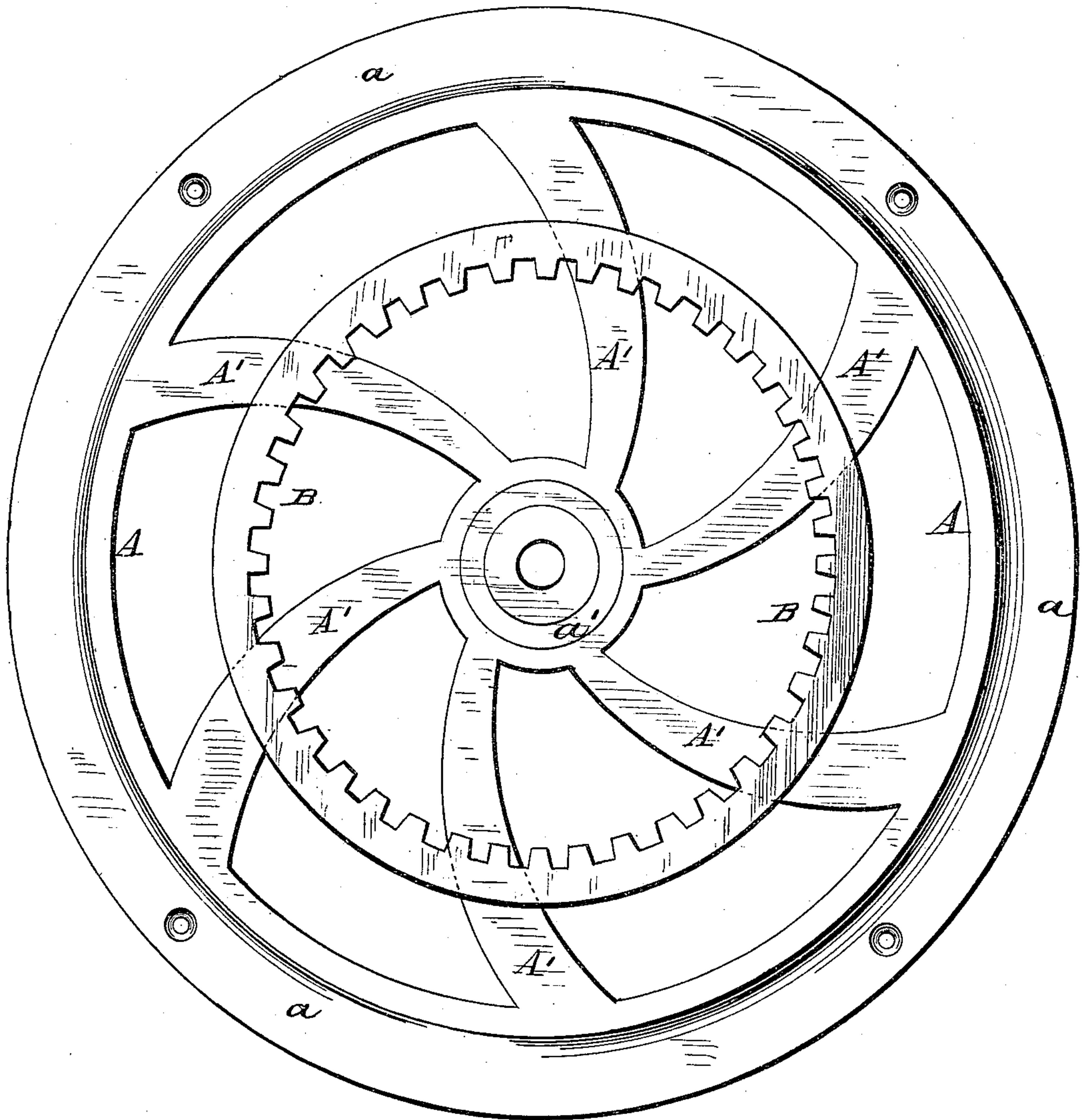
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Fig. 2.



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3 Sheets—Sheet 3.

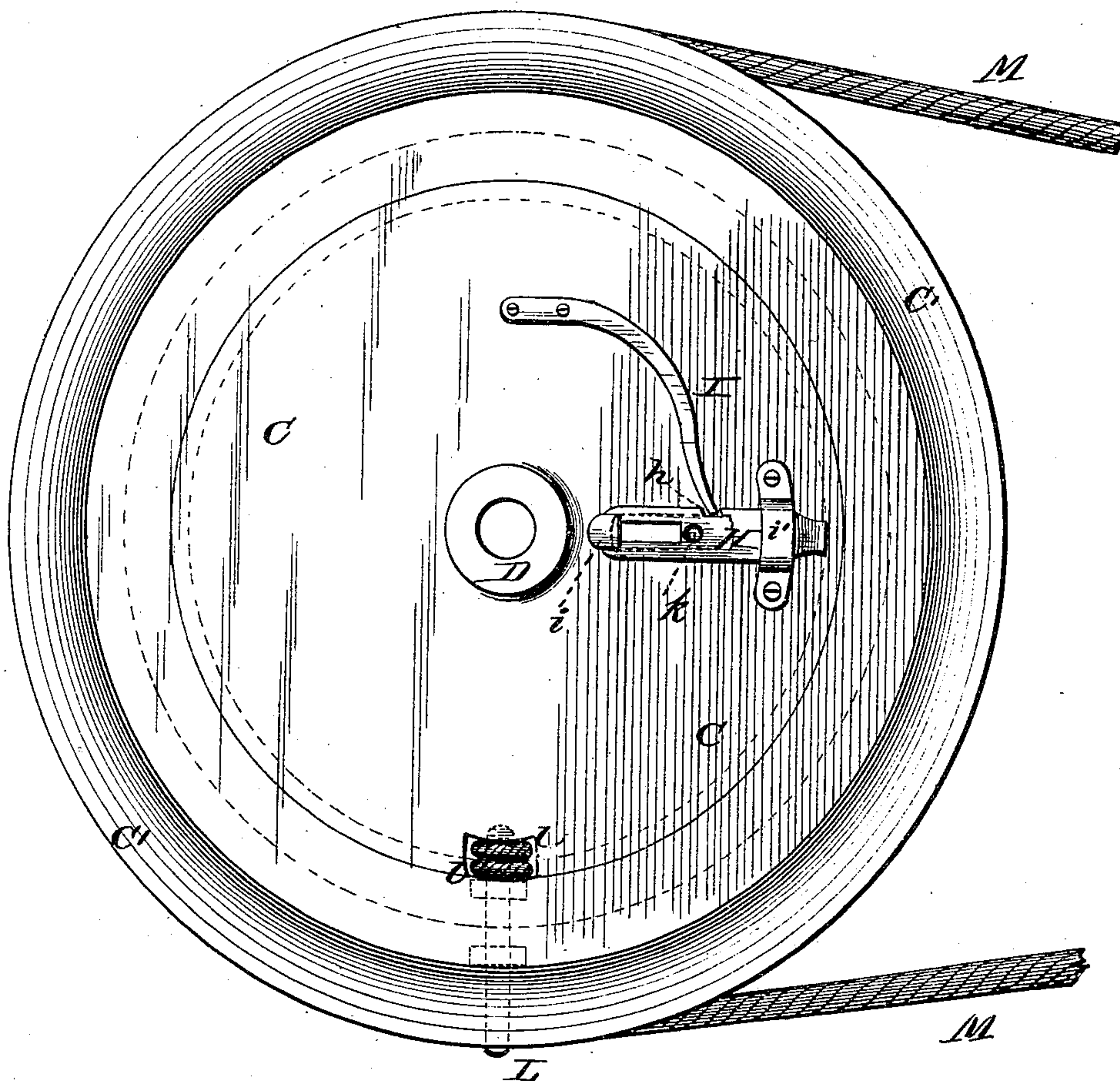
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Fig. 3.



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UNITED STATES PATENT OFFICE.

DAVID J. LINDSEY, OF LAS ANIMAS, COLORADO.

APPARATUS FOR OPERATING RAILWAY-SIGNALS.

SPECIFICATION forming part of Letters Patent No. 267,436, dated November 14, 1882.

Application filed February 28, 1882. (No model.)

To all whom it may concern:

Be it known that I, DAVID JAMES LINDSEY, of Las Animas, in the county of Bent and State of Colorado, have invented certain new and useful Improvements in Apparatus for Operating Railway-Signals; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a longitudinal vertical section of my improved device or apparatus. Fig. 2 is a plan view of the stationary base-plate, and Fig. 3 is a plan of the inner or under side of the "pulley-wheel" or "cord-wheel" with its appurtenances for operating the signal.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to devices for operating railway-signals located on suitable posts or supports in contiguity to or at a distance from the station-building or telegraph-operator's office with the least possible trouble to the station-master or telegraph-operator, as the case may be; and to this end it consists in the construction and combination of parts of an apparatus for operating an endless cord, which actuates a rotating post upon which the signals are displayed, substantially as hereinafter more fully set forth.

In the accompanying drawings, A represents the base-plate of my apparatus, which is of circular shape, of any suitable size, with a concaved edge or rim, *a*, which forms the support of the plate, and has screw-holes at a suitable distance apart for its rigid attachment to a wall, table, or other suitable support. The center of plate A is swelled or made thicker than the rest, as shown at *a'*, to form a bearing of the requisite strength for the center bolt, to be hereinafter described.

By reference to Fig. 2 of the drawings it will be seen that the body of plate A is cut out between its swelled center *a'* and the rim to form radial ribs or spokes A', upon which the concentric internal gear-wheel, B, is secured. This wheel stands up from the face of plate A A', as shown in Fig. 1.

C is the rotary face-wheel or pulley-wheel,

which has a circumferential groove, C', and a central hub, D, through which the center-bolt, E, is inserted. The latter has a head, E', and is reduced at the point *e*, where it enters the swelled center *a'* of the base-plate, to the under side of which it is nipped by an octagonal nut, F. At one point of its periphery plate C has a raised portion or shoulder, *c*, which has a threaded aperture for the insertion of the headed handle-bolt G, by which a handle, G', is affixed rigidly upon plate C. A ferrule, *g*, is placed around the base of handle G', as shown.

To the under or inner side of the wheel or disk C is affixed a sliding bolt, H, the outer end of which is made tapering to enable it to readily enter any one of the spaces between the cogs or teeth of the internal cog-wheel, B, which forms part of or is affixed rigidly upon the stationary base-plate A. I is a steel spring, riveted to the under side of disk C, with its free end fitting into a notch, *h*, in bolt H, thus operating to push the bolt in an outward direction toward cog-wheel B, from which it may be released by means of a knob, K, the stem *k* of which works through a slot in plate C, and is secured in the inner end of the bolt, as shown clearly in Fig. 1 of the drawings.

To insure a true forward and back motion of the bolt, its forward end works through a keeper, *i'*, secured to the under side of plate C, while its rear end is slotted and straddles a guide bolt or stud, *i*, also affixed to the under side of the plate in a line with the keeper *i'*, as shown in Fig. 3, in which figure the slot is indicated by dotted lines.

L is a hooked screw-bolt, which is inserted into and works in the groove C' of disk C, in which it may be adjusted to project a greater or lesser distance into the groove by means of milled nuts *l l*. An endless cord, M, of suitable length and thickness, is placed in the groove C' of disk or wheel C, and fastened therein by the adjustable hook L to prevent it from slipping when the disk is turned. The other end of the endless cord is passed around a sheave or pulley upon the rotary signal-post, located outside of the building in which the apparatus is placed, so as to be in view of the railway-track for a distance in either direction, up or down the track. It follows that by ro-

tating disk C by means of its handle G' the signal-post is also rotated to the same degree or extent, so as to display or not display the signal or signals attached to and rotating with it; but disk C can only be rotated by disengaging the catch or spring-bolt H from the internal cog-wheel, B, which is done by means of its knob K while the disk is being moved. The moment the operator lets go his hold upon the knob, bolt H flies back, thus interlocking disk C with the fixed base-plate A, and arresting at the same instant the motion of the cord which actuates the rotary signal-post.

Inasmuch as the construction of the signal-post and signals forms no part of my invention, they are not shown in the accompanying drawings, which show merely my device or apparatus for working the signals. These may be of any desired construction and arrangement, different roads employing (usually) differently-constructed signals. Among others, a rotary signal constructed as that shown and described in the Letters Patent of the United States No. 199,384, granted to Asa R. Swift on the 22d day of January, 1878, may be used; but I desire it to be distinctly understood that I do not limit myself to the combination of that

or any other specific signal with my apparatus for operating railway-signals.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination of the fixed base-plate A, having concentric internal cog-wheel, B, central pivot-bolt, E, disk C, having circumferential groove C', adjustable fastening-hook L, and handle G', and spring-bolt H, having the knob K, substantially as and for the purpose herein shown and set forth.

2. The combination, with the endless cord M, of the rotary circumferentially-grooved disk C, having the adjustable fastening-hook L, and provided with means for interlocking it in a fixed position upon its bed or base plate A, substantially as and for the purpose herein shown and described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

DAVID JAMES LINDSEY.

Witnesses:

JNO. A. MURPHY,
RICH'D. SIMPSON.