

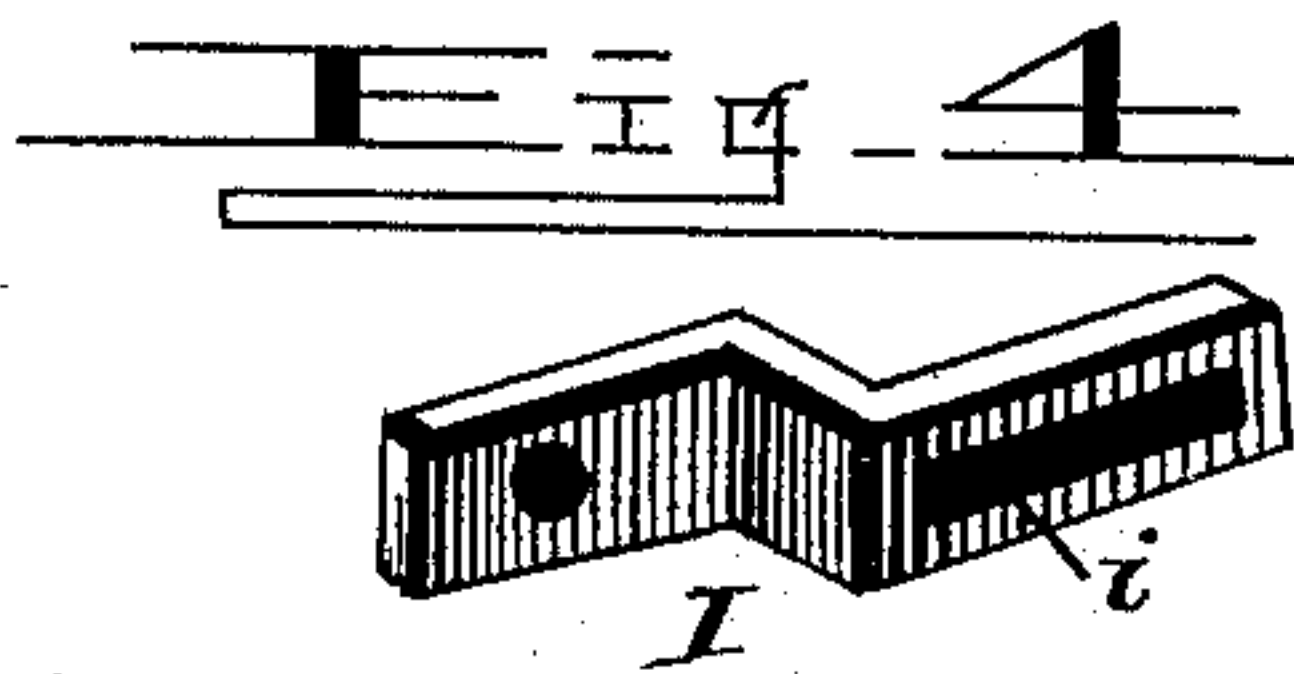
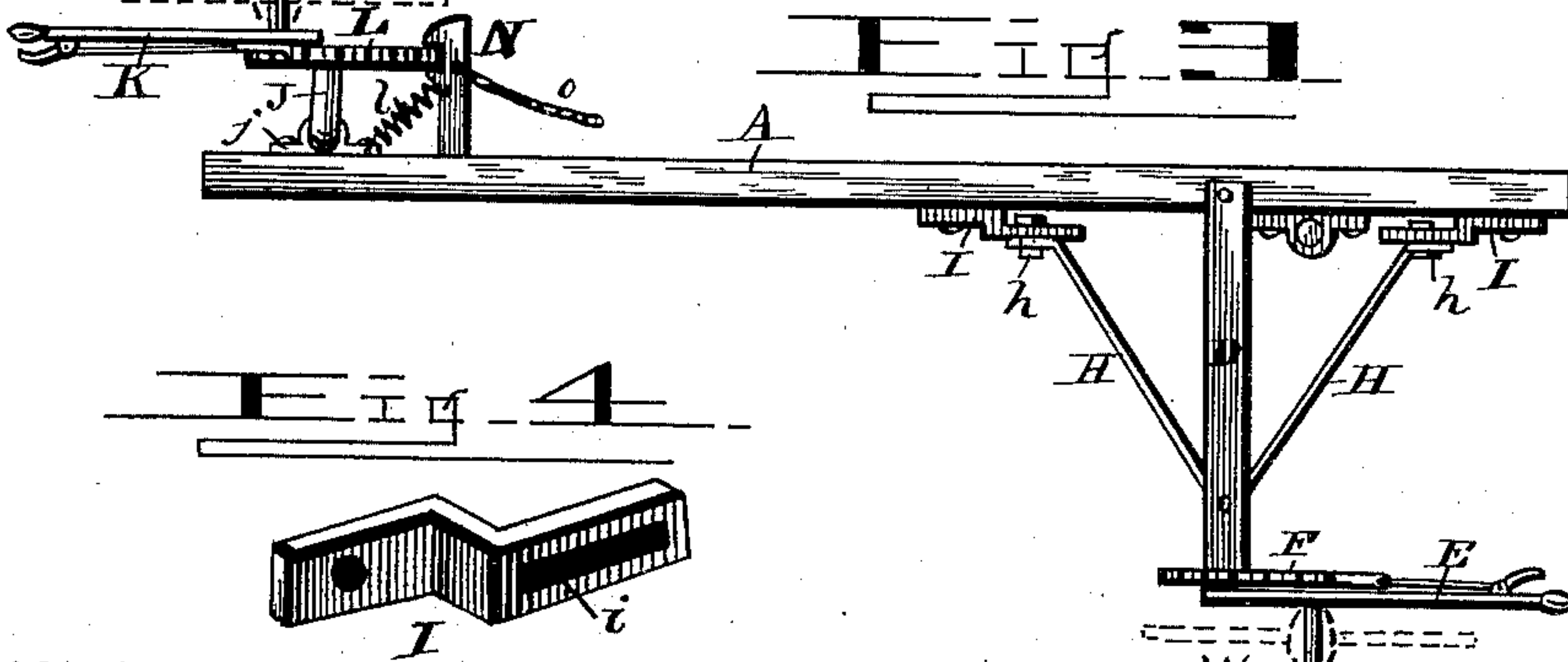
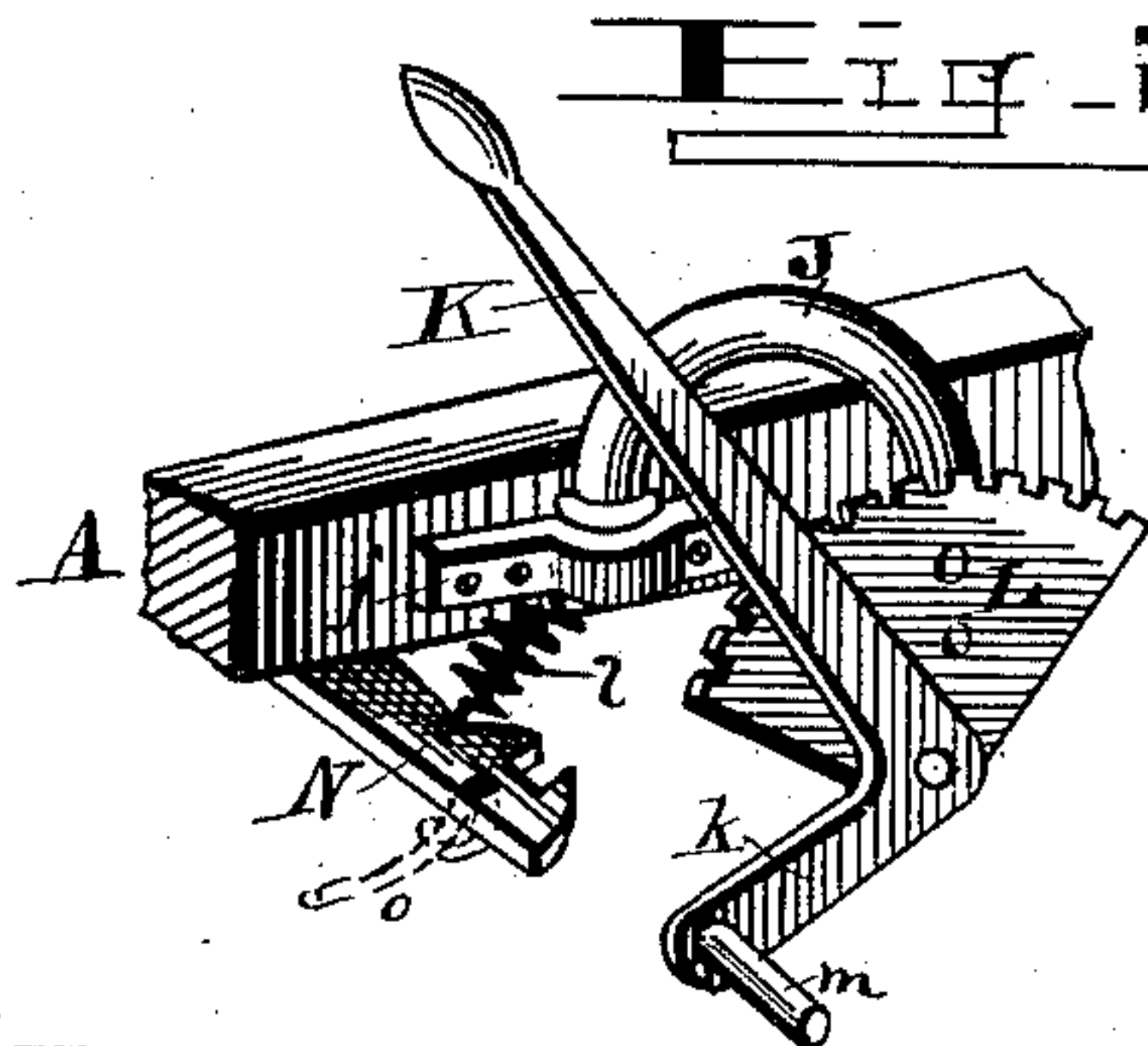
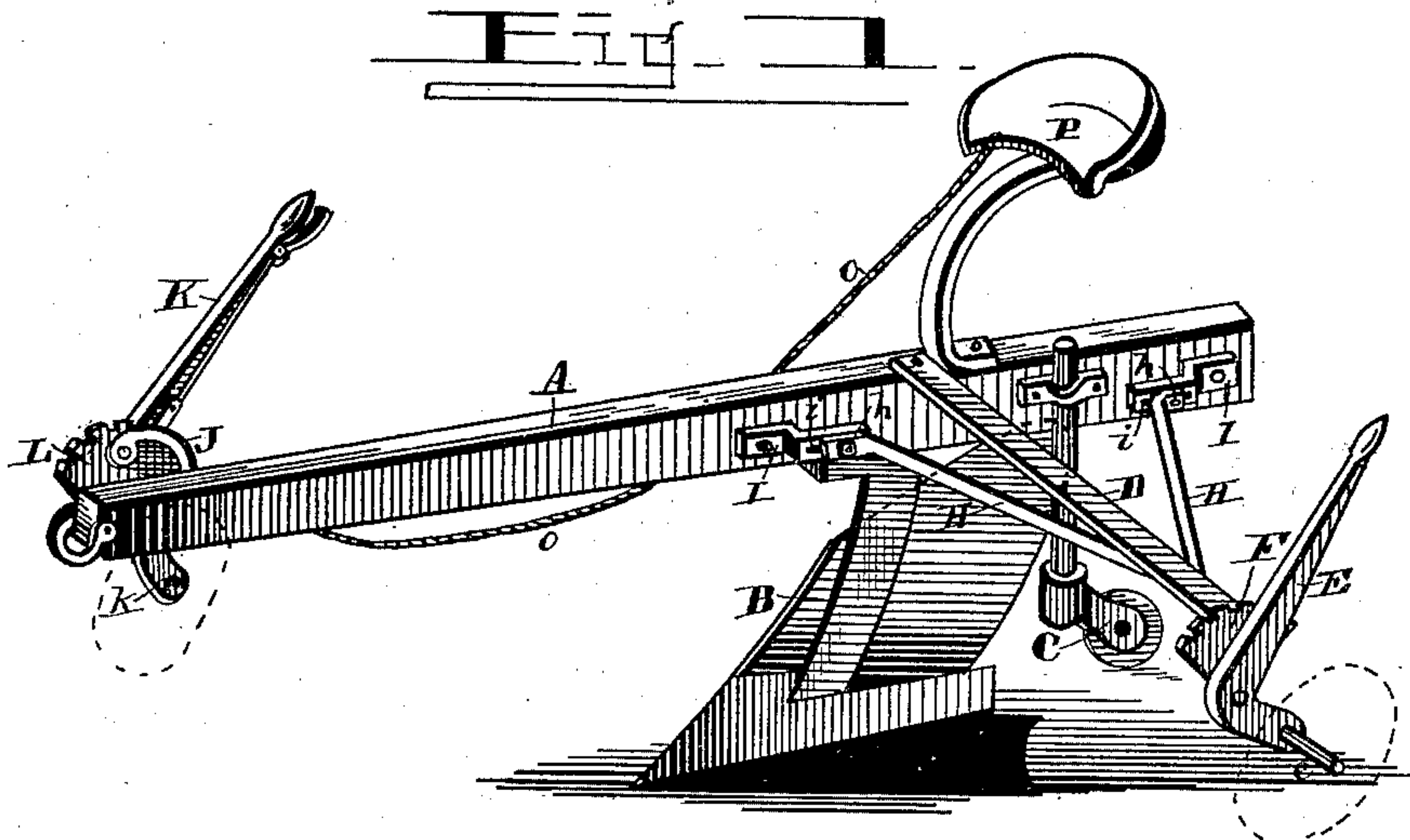
(No Model.)

E. C. WESTERVELT.

SULKY PLOW.

No. 382,919.

Patented May 15, 1888.



Witnesses.

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UNITED STATES PATENT OFFICE.

EDMUND C. WESTERVELT, OF SOUTH BEND, INDIANA.

SULKY-PLOW.

SPECIFICATION forming part of Letters Patent No. 382,919, dated May 15, 1888.

Application filed February 16, 1888. Serial No. 264,290. (No model.)

To all whom it may concern:

Be it known that I, EDMUND C. WESTERVELT, of South Bend, in the county of St. Joseph and State of Indiana, have invented certain new and useful Improvements in Sulky-Plows; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification, in which—

Figure 1 is a perspective view of my improved sulky-plow. Fig. 2 is a detail perspective view of the front-wheel mountings. Fig. 3 is a top plan view of the same. Fig. 4 is a detail.

This invention is an improvement in sulky-plows; and its objects are to provide an improved front wheel supporting and adjusting device, and also to improve the mounting of the main carrying-wheel of the plow, whereby the depth of cut and slant of the plow in action can be regulated.

The invention consists in the novel construction and arrangement of the mountings of the wheels of the plow, as will be fully understood from the following description, and specifically designated in the claims.

Referring by letters to the drawings, A is the plow-beam, and B an ordinary turn-plow attached to the beam in the ordinary manner, the beam extending in the rear of the plow-share and having mounted upon it a caster-wheel, C, as shown.

D is a bar or shaft properly secured at its inner end to the top of the plow-beam above the plow, and extending outward therefrom on the land-side of the plow at right angles to the beam. Upon the outer end of the bar D is properly mounted a crank-lever, E, and the segmental rack F, the lever E being provided with a spring-catch engaging said rack, as shown, and by which the position of the lever E with respect to bar D can be varied. The said lever stands at right angles to the bar, and is provided on its shorter arm with an outstanding spindle or arm, e, which is parallel with the bar D, and upon which is mounted the wheel W.

H H are rods on each side of the bar D, and are connected at their outer ends with the latter

near its outer extremity, and diverge as they approximate the plow-beam, being adjustably attached to the latter by means of bolts and nuts h, which pass through the perforated ends of rods H and through slots i in horizontal brackets I I, which are bolted to the beam A, or secured thereon by clips or in other suitable manner. By reason of the slots in brackets I the ends of rods H H can be set at different distances apart, and, as the point of attachment of the bar D on beam A is above the point of attachment of rods H H thereto, the setting of rods H H closer together will tend to lift the outer end of the bar D, and setting them farther apart will draw down the outer end of said bar, as will be evident from the drawings. It will thus be seen that I have two means for adjusting wheel W, either by the lever E or by rods H H, the lever E being used to adjust the wheel principally for working or traveling, and the rods H H being set to vary the lateral inclination of beam A and plow B, as it will be evident that if the end of bar D be elevated or depressed while wheel W is upon the ground the beam A will be necessarily inclined laterally.

Upon the front ends of beam A, on the side opposite the bar D, is mounted an inverted-U-shaped hanger, J, one of its arms being held in a bracket, j, so that the other arm of the hanger can swing horizontally. Upon the free end of hanger J is pivotally mounted a crank-lever, K, and a segmental rack, L, as shown, the longer arm of said lever having a spring-catch for engaging the teeth of rack L, as shown, and the short arm k of the lever has a lug, m, upon which is mounted a wheel, M, in suitable manner.

It will be seen that the wheel M, with its supporting devices, can turn freely with hanger U, and this is very useful in turning the plow when in use, as the wheel M, with its support, forms virtually a caster-wheel, permitting the plow to be rapidly turned thereon without friction. In order to keep the wheel M, however, in proper position when the plow is being used, I provide a dog, N, pivoted to the under side of beam A and extending outward in position to engage with the rack L when the wheel M has turned with hanger J parallel with beam A and lock the hanger with the

wheel in such position. The dog is held in position for engaging the rack by a spring, *l*, as shown, and can be disengaged therefrom by means of a draw-rope or draw-chain, *O*, which
 5 is carried rearward in position to be readily reached by the driver who occupies seat *P*.

By means of lever *K* and rack *L* the wheel *M* can be adjusted vertically, so as to regulate the depth of the cut of the plow, as is evident.
 10 In turning, the dog *N* is disengaged from rack *L* by the driver, allowing wheel *M* to swing freely, and after the turn is completed and the wheel *M* returns to its proper position the rack *L* will be automatically engaged by dog
 15 *N*, as is evident.

Having described my invention, I claim—

1. The combination of a plow with a *U*-shaped hanger pivoted upon the front end of the plow-beam and carrying on its free end an
 20 adjustable wheel, and a locking-dog for said hanger, pivoted on the beam and adapted to engage the hanger automatically and hold the wheel parallel with the beam, substantially as described.

25 2. The combination of the plow with the bar *D*, a wheel mounted thereon, and the rods *H H*, attached to bar *D* at one end and adjustably secured to the plow-beam at the other end, whereby the bar *D* is adjusted, substan-
 30 tially as and for the purpose described.

3. The combination of plow *A* with the bar *D*, its adjusting-rods *H H* and brackets *I I*, and the adjustable lever *E* and rack *F* on bar *D*, and the wheel *W*, mounted on said lever, all constructed and arranged substantially as
 35 and for the purpose specified.

4. The combination of the plow with the caster *C*, mounted on the rear end of the plow-beam, the adjustable bar *D*, the adjustable lever *E*, pivotally mounted on bar *D* and wheel
 40 *W* thereon, and the hanger *J*, the adjustable lever *K*, and the wheel *M*, all substantially as and for the purpose described.

5. The combination of the plow, the caster-*C*, mounted on the rear end of the beam, and
 45 the adjustable bar *D* and lever *E*, rack *F*, and wheel *W*, with *U*-shaped bracket *J*, pivotally mounted on the front end of the beam, and lever *K*, rack *L*, mounted on said bracket, and wheel *M*, and the spring controlled dog
 50 *N*, all constructed and arranged substantially in the manner and for the purpose described.

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

EDMUND C. WESTERVELT.

Witnesses:

JAMES DUSHANE,
 JEANIE ANDERSON.