

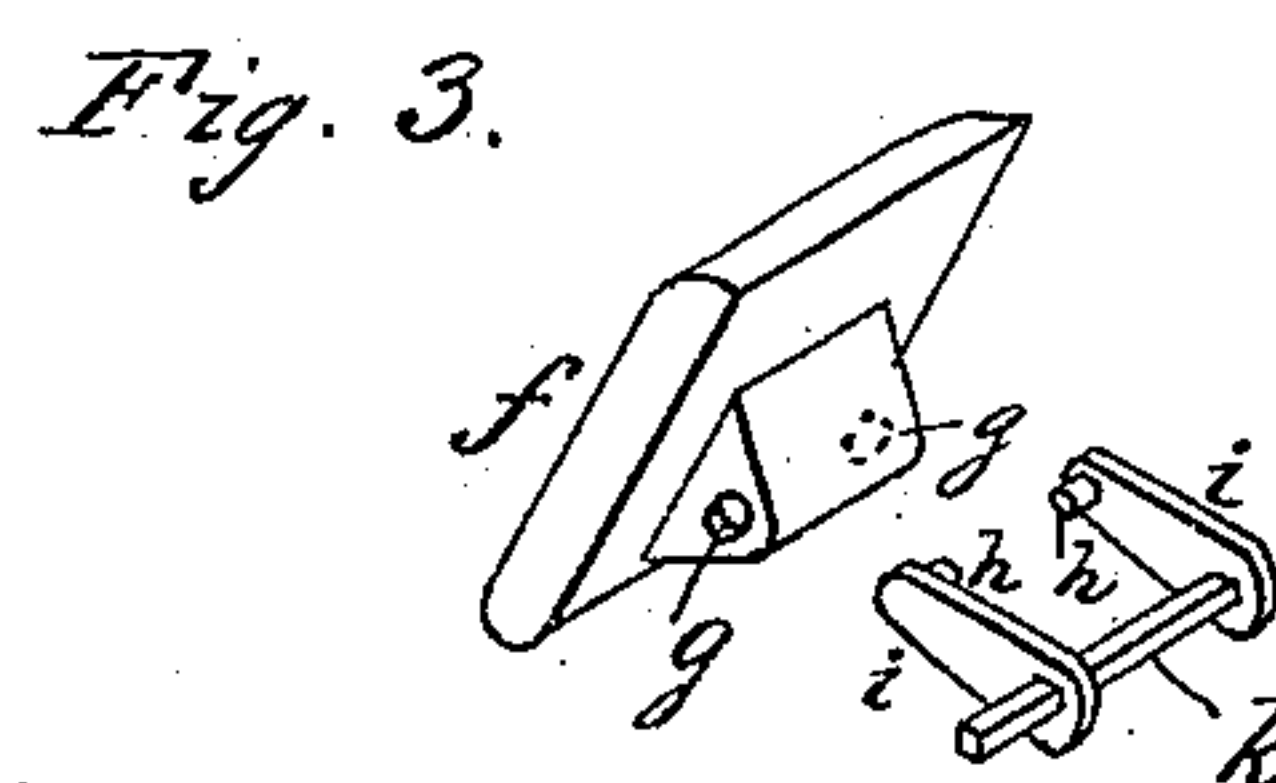
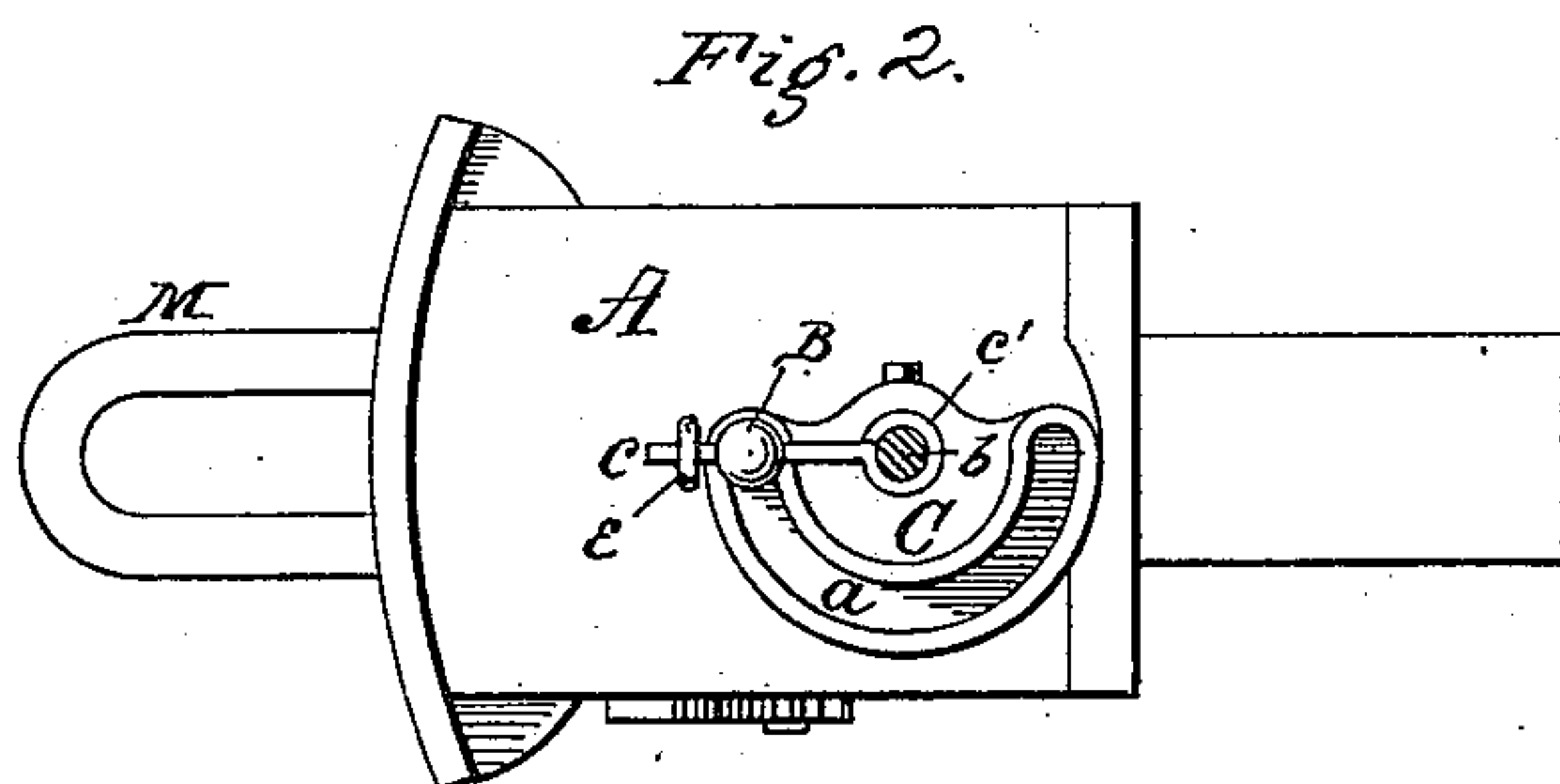
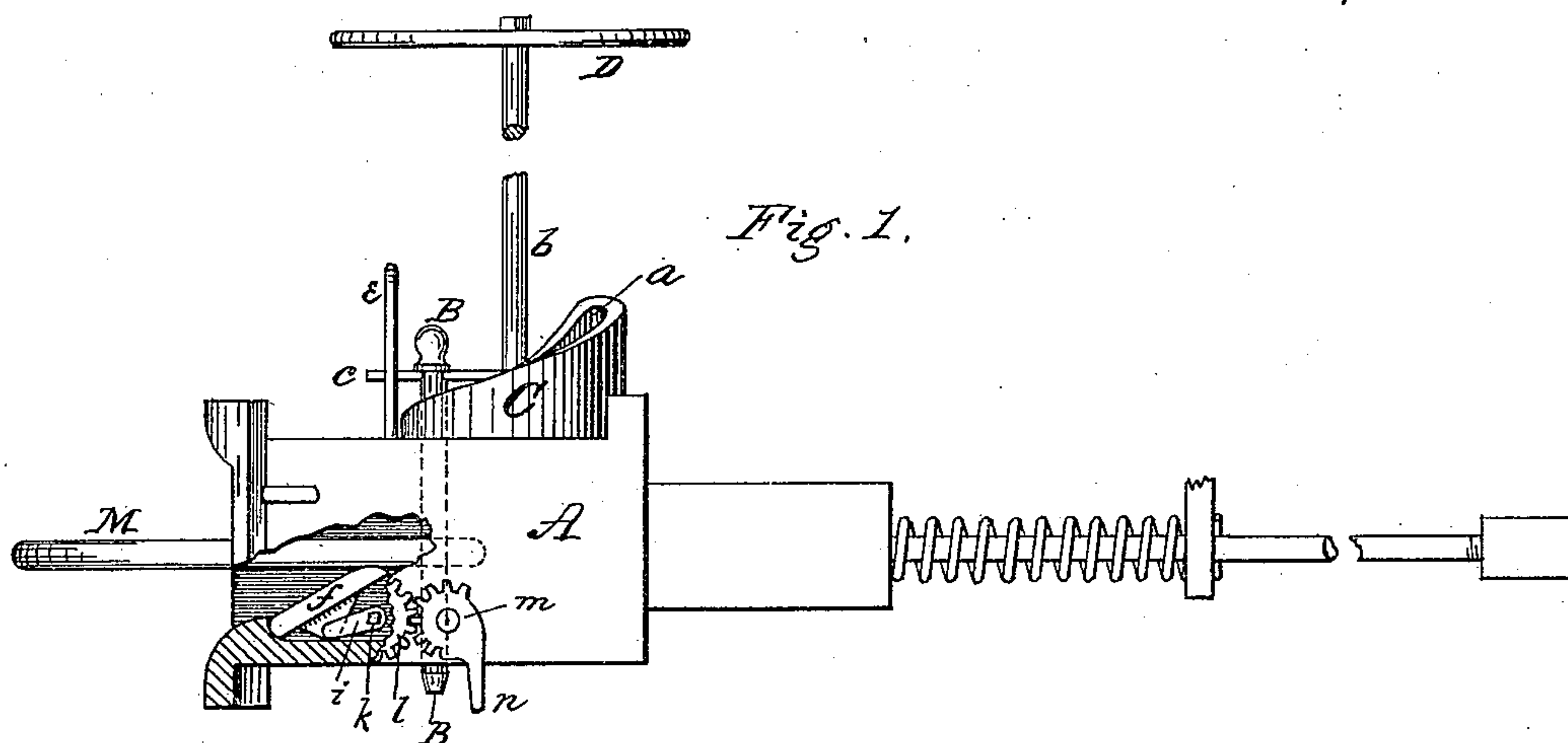
(No Model.)

J. KELLEY.

CAR COUPLING.

No. 249,059.

Patented Nov. 1, 1881.



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UNITED STATES PATENT OFFICE.

JOHN KELLEY, OF ALLEGHENY, PENNSYLVANIA.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 249,059, dated November 1, 1881.

Application filed February 23, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN KELLEY, of Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Car-Couplings; 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.

Figure 1 is a side elevation, partly broken away to show interior. Fig. 2 is a plan view. Fig. 3 is a detail.

This invention relates to car-couplings and their appurtenances; and it consists in the construction and combination of parts, substantially as hereinafter fully described and claimed.

The draw-head A may be of the ordinary general form; but I prefer to make it specially. The coupling-pin B rises vertically through the draw-head and through the circular slot *a* in a casting, C, of peculiar shape. The casting C is pivoted centrally to the top of the draw-head, being fixed to and rotated by the rod *b*, which rises vertically to the level of the car-roof or above it, and is fitted with the hand-wheel D, as shown. The upper edges of the slot *a* in casting C rise from near the surface of the draw-head A on a regular spiral to a height at least equal to the lift necessary to withdraw the pin B from the coupling-link. Pin B is long enough to project above the edge of slot *a* at its shallow part, and a rod, *c*, is passed through it horizontally. An eye, *c'*, at one end of rod *c* embraces the vertical rod *b* and slides freely thereon. The other end of the horizontal rod *c* passes between the sides of the inverted U-shaped guide *e*, which is fixed to the top of the draw-head A, as shown.

By the above construction the brakeman on top of a freight-car may uncouple any car he desires without getting down off the roof, for he has but to turn the hand-wheel D, and

this rotates the casting C, whose inclined top strikes against the rod *c*, and as it moves around lifts the pin B straight upward, and thus withdraws it from the link. The rod *c* and guide *e* prevent the pin from being lost when not in closed position.

To provide a means of conveniently guiding the link when coupling without the necessity of the brakeman endangering his hands between the draw-heads, I have the backwardly-inclined plate *f*, whose rounded lower edge rests in a concavity across the bottom of the draw-head A. The rear of plate *f* has two holes or recesses, *g*, into which take pins or projections *h* on the small cranks *i*, which are keyed or fastened to a rod, *k*, which passes through the draw-head, as shown. Rod *k* in turn is fixed to or part of the toothed segment *l* on the outside face of draw-head A, so that by rotating segment *l*, I can elevate the free end of plate *f*, and as the link M rests upon the upper edge of plate *f*, I can readily raise the outer end of the link or lower it, as may be found necessary, to guide it for coupling to another car. Another segment, *m*, gearing with *l*, has a handle or lever, *n*, for convenience of operation, as shown.

I claim as my invention—

1. The combination of the draw-head A, coupling-pin B, and circularly-slotted casting C, whose upper edge is inclined on a spiral line, and means for rotating said casting, substantially as described.

2. The combination of draw-head A, plate *f*, cranks *i*, having pins *h*, rod *k*, toothed segment *l*, and handled segment *m*, gearing therewith, substantially as described.

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

JOHN KELLEY.

Witnesses:

JAMES J. MCTIGHE,
T. J. MCTIGHE.