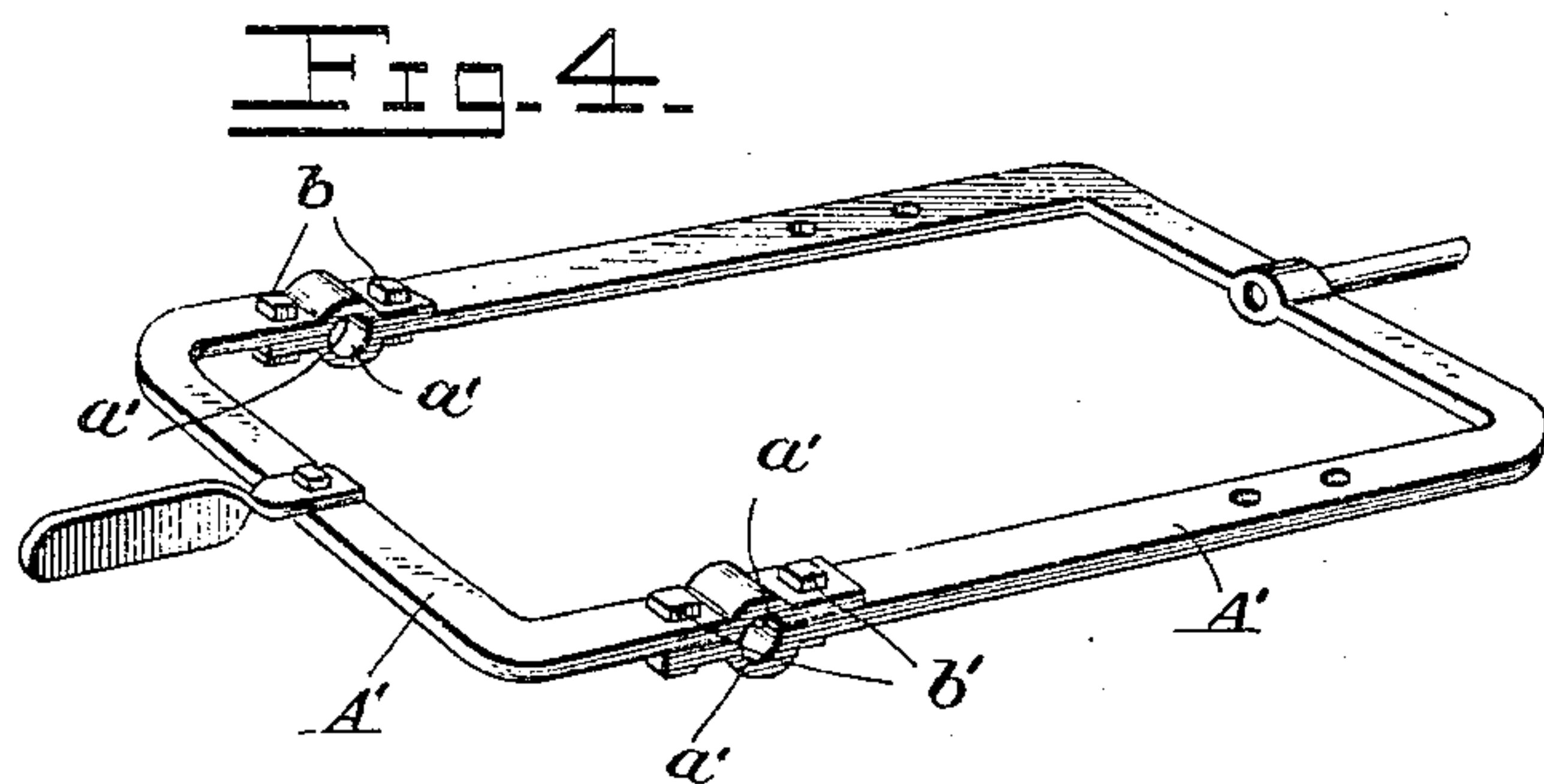
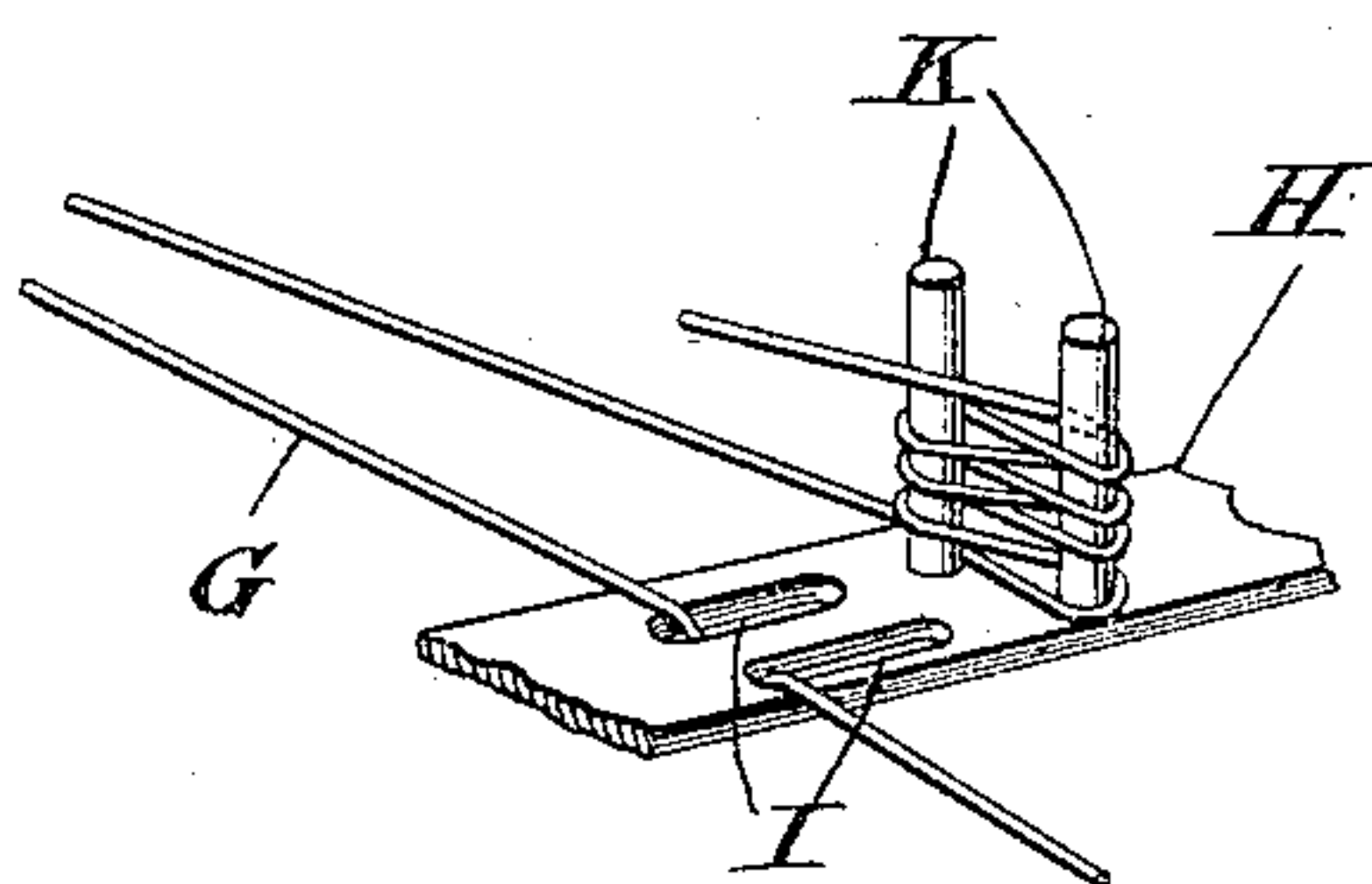
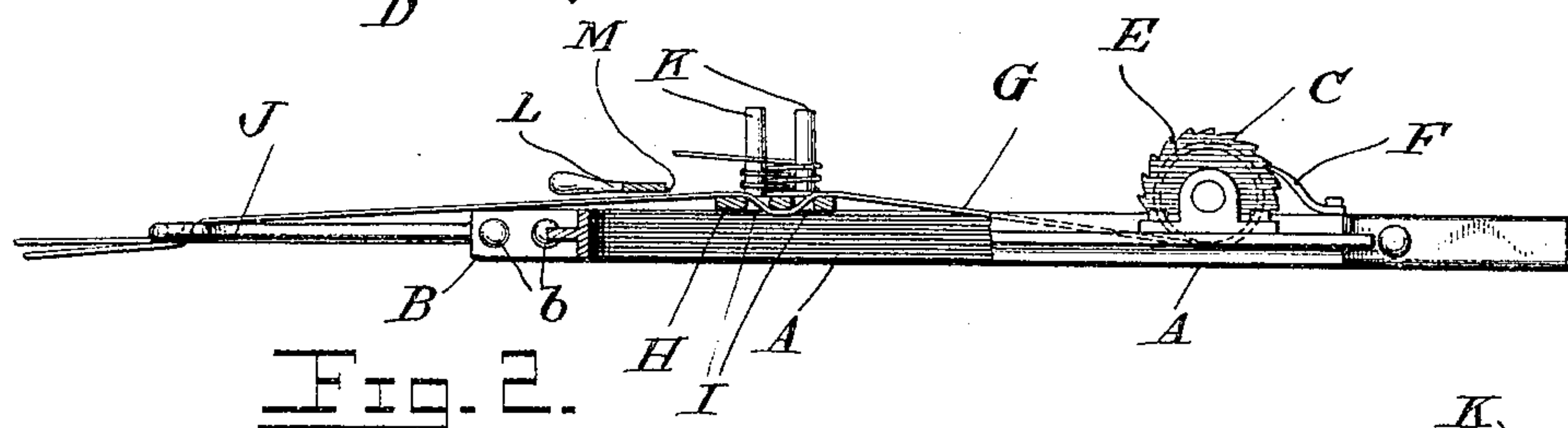
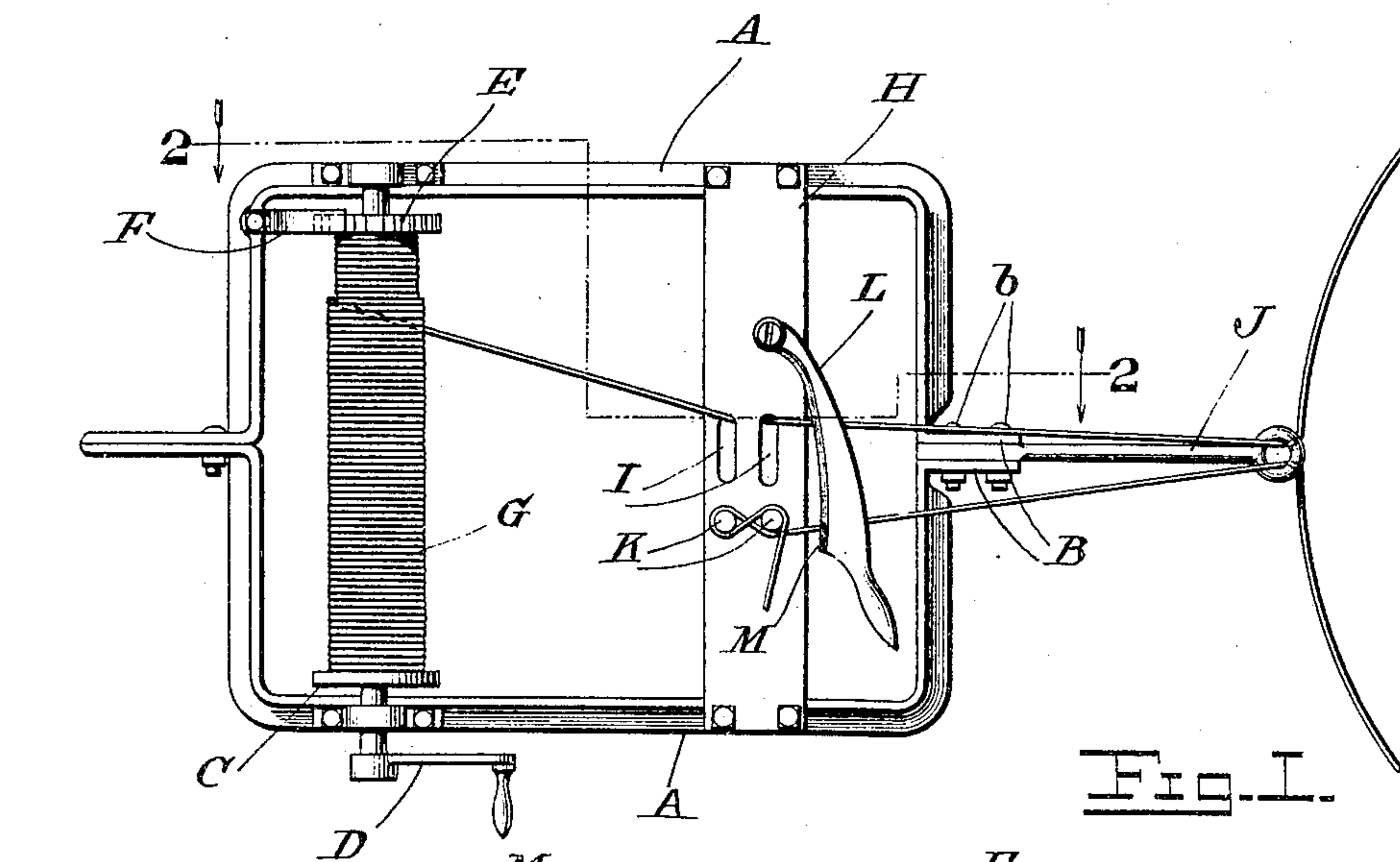


No. 791,987.

PATENTED JUNE 6, 1905.

S. D. McGUIRE.  
SHOCK COMPRESSOR AND BINDER.  
APPLICATION FILED JUNE 2, 1904.



Squire D. McGuires  
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Witnesses  
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Attorney

# UNITED STATES PATENT OFFICE.

SQUIRE D. McGUIRE, OF BARNARD, MISSOURI.

## SHOCK COMPRESSOR AND BINDER.

SPECIFICATION forming part of Letters Patent No. 791,987, dated June 6, 1905.

Application filed June 2, 1904. Serial No. 210,877.

*To all whom it may concern:*

Be it known that I, SQUIRE D. McGUIRE, a citizen of the United States, residing at Barnard, in the county of Nodaway and State of Missouri, have invented certain new and useful Improvements in Shock Compressors and Binders, of which the following is a specification.

My invention relates to hand-operated machines for compressing shocks of corn, grain, &c., and has for one of its objects the provision of a device simple in construction, reasonable in cost of manufacture, and easy to operate.

Another object of my device is to provide mechanism by which the same wire or cord is used to compress the shock that is used to bind it.

A further object is the provision of a tension to hold the cut end of the wire or rope to prevent it unwinding or loosening on the reel and a swinging blade that forms, in combination with the edge of the tension-plate, the equivalent of a pair of shears for severing the wire or cord when the shock is bound.

The construction and advantages of my invention are fully described hereinafter and will be understood by an inspection of the drawings, in which—

Figure 1 is a top plan view of my invention; Fig. 2, a side view, partly in section; Fig. 3, a detail view of a fragment of the slotted plate, and Fig. 4 a view of a modification of the frame.

In the drawings similar reference characters are utilized to designate corresponding parts throughout the several views.

In Figs. 1 and 2, A A represent the two parts of a frame made, preferably, of T-shaped bars bent to form when joined an open rectangular frame having projecting flanges B to receive bolts b to secure them together. C represents a reel journaled on the sides of the frame having a crank D to rotate it and a ratchet-wheel E secured thereto. F represents a spring-pawl to engage with the teeth of ratchet-wheel E and is pivoted on the back of the frame. G represents the

wire or cord, which is wrapped on the reel C. H represents a metal plate secured to the frame A A and having slots I, through which the wire or twine is passed, and J a thrust-pin, having an eye at its outer end secured to the end of the frame through which the wire or twine is threaded to form a loop, the free end of this wire or twine being secured by hitching on two pegs K, secured to the plate H. Thrust-pin J is made of sufficient length to pierce the shock and hold the machine in position while the free end of the wire is passed around the shock. L represents a blade pivotally mounted on plate H and forming, with the edge M of said plate, the equivalent of a pair of shears to cut the wire or twine after the shock has been compressed and bound.

In operation the wire after being threaded through the slots I in plate H and the eye of thrust-pin J is passed around the shock, the machine being held in position by inserting bolt J into the shock. The end of the wire is then passed through the eye of thrust-pin J and secured by hitching it around pegs K. The thrust-pin J is then withdrawn from the shock and the shock compressed by winding the wire on the reel C. When the shock is compressed, it is bound by turning the machine over until the two strands of the loop are twisted together. The wire is then cut between the blade L and edge M, the slots I in plate H serving to hold the free end of the wire.

In the modification of frame shown in Fig. 4 the frame is composed of two parts A' A', that are joined at the sides of the frame by bolts b', the ends of each part being formed with semicircular depressions a', that when the frame is assembled form journals for the reel C, above described.

Having thus described my invention, what I claim is—

1. In a shock compressor and binder, a frame, a plate secured to said frame, having parallel slots therein, a reel journaled on said frame, and a wire wound on said reel, passed through the slots in said plate, having its free



end suitably secured, said wire being adapted to encircle the shock, substantially as shown and described.

2. In a shock compressor and binder, a  
5 frame, a reel journaled on said frame, and a plate secured to the frame, a thrust-pin projecting from the frame having parallel slots therein, a wire wrapped on the reel, passed through the slots in the plate and the eye of  
10 said thrust-pin and having its free end suitably secured, substantially as shown and described.

3. In a shock compressor and binder, a frame, a reel journaled in said frame, a ratchet  
15 on said reel, a pawl to engage the teeth of said ratchet, a slotted plate secured to the frame, a thrust-pin projecting from the frame, a wire wound on said reel, threaded through the slots in said plate and through the eye of  
20 said thrust-pin to form a loop to encircle the

shock, and pegs on said plate on which the free end of the wire is secured, substantially as shown and described.

4. In a shock compressor and binder, an open rectangular frame, a thrust-pin secured  
25 to and projecting from said frame and having an eye in its outer end, a plate secured to said frame adjacent to the thrust-pin and having parallel slots therein, a reel journaled on the frame, and a wire secured on said reel,  
30 threaded through said slots and the eye in said thrust-pin and secured to said plate, substantially as shown and described.

In testimony whereof I hereunto affix my signature in the presence of two subscribing  
35 witnesses.

SQUIRE D. McGUIRE.

In presence of—

JOS. B. BAKER,  
R. L. GIFFIN.