(No Model.)

H. H. HUNTLEY.

MECHANICAL MOVEMENT.

No. 433,568. Patented Aug. 5, 1890.

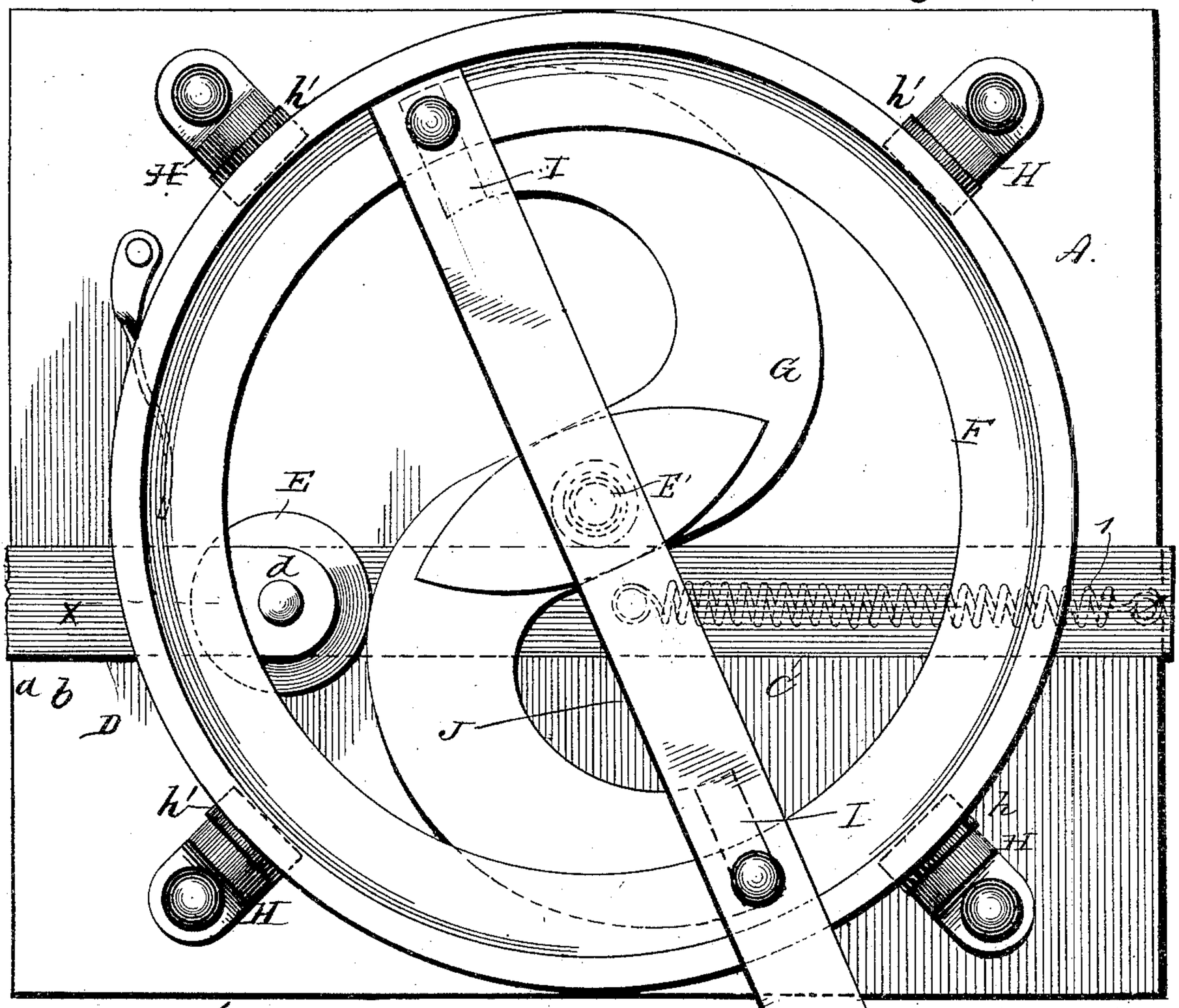
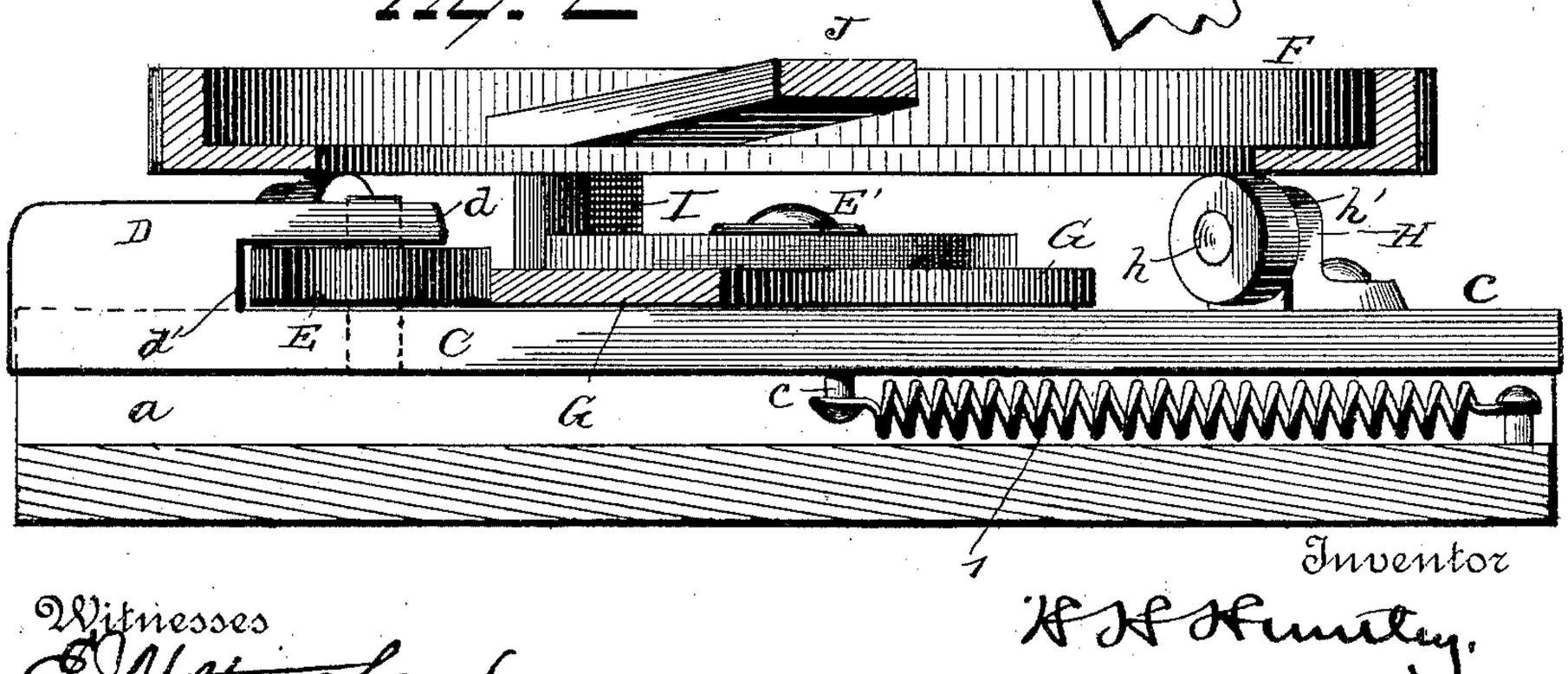


FIG. 1.

FIG. 2



Witnesses
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UNITED STATES PATENT OFFICE.

HOSEA H. HUNTLEY, OF QUINCY, ILLINOIS, ASSIGNOR OF ONE-HALF TO MICHAEL ROONEY, OF SAME PLACE.

MECHANICAL MOVEMENT.

SPECIFICATION forming part of Letters Patent No. 433,568, dated August 5, 1890.

Application filed January 23, 1890. Serial No. 337,784. (No model.)

To all whom it may concern:

Be it known that I, HOSEA H. HUNTLEY, of Quincy, in the county of Adams and State of Illinois, have invented certain new and useful Improvements in Mechanical Movements; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improved mechanical movement, and more particularly to such as are capable of use in presses for baling hay and other material.

The object is to provide a mechanical movement adapted to be operated by horse-power and having a reciprocating plunger, whereby the device is rendered capable of use in connection with hay or other presses.

With this object in view my invention consists in certain novel features of construction and peculiar combinations and arrangement of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of the device. Fig. 2 is a section on the line *x x* of Fig. 1.

A indicates a base-block of any suitable material having a recess *a* running from end to end thereof, preferably at one side of the center of the block. An offset *b* is made in the recess *a*, and a plunger C is loosely mounted on the offset in the recess *a* and adapted to have a longitudinal sliding movement, being held under tension and normally retracted and held against the cam by means of a spring *l*, attached at one end to the plunger and at the other to the base. A projection *c* is made on the under face of the plunger C, at or near its center, for the reception of one end of the spring *l*, a suitable pin being provided to retain said spring in engagement with the projection. Secured upon the top face of the plunger is a block D, having an arm *d* projecting therefrom over a portion of the plunger, thus producing a recess *d'*, in which a roller E is journaled, the periphery of said roller projecting slightly beyond the end of the short arm *d*.

A wheel F is placed upon the base-block A, and a pin E' is made to project loosely through a perforation made in the center of an S-shaped cam G, which is secured to and extends across said wheel. The wheel F is preferably secured to the top of the cam G, at the ends of the latter, so that the extremities of the outer edge of said cam will extend out nearly to the periphery of the wheel.

Secured upon the base-block A, near the periphery of the wheel F, is a series of four or more brackets H, having perforations near their tops for the reception of pins *h*, which latter are adapted to serve as bearings for a series of anti-friction rollers *h'*. Two standards I are located between the ends of the S-shaped cam G and the wheel F, and serve as supports for a beam or lever J. The beam or lever J is secured on the tops of the wheel F, over the standards I, and projects laterally from one of them and beyond the base-block A, whereby means are provided for the attachment of a horse or other power for rotating the wheel F and its cam G.

The device being constructed as above set forth, and assuming that the plunger is at one extremity of its throw, it will be seen that if the wheel is rotated the cam will engage the roller E of plunger C and force the plunger in the direction of the article or material being pressed and against the force of the spring *l*. The continued rotation of the wheel will cause the end of the arm G to pass the roller E, and thus release the plunger, when the plunger will be retracted to its original position by means of the spring *l*, assisted by the expansion of the material under compression. The speed at which the plunger is reciprocated may be easily regulated by the speed at which the wheel F is rotated.

It is evident that slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the particular construction herein set forth; but,

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

1. The combination, with a base having thereon anti-friction rollers, a wheel revolu-

bly supported in proximity to and adapted to bear on the rollers, and a lever for rotating the wheel, of a plunger and a cam carried by the wheel for actuating the plunger, and a spring for retracting the plunger, substantially as set forth.

2. The combination, with a base having a channel therein, a plunger located in said channel, and a roller on said plunger, of a wheel, a lever attached thereto, an S-shaped cam carried by the wheel and engaging the roller on the plunger, and a spring for retracting the plunger, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HOSEA H. HUNTLEY.

Witnesses:
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