

No. 883,282.

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G. & C. BREEZE.

TIE HOLDER.

APPLICATION FILED JULY 15, 1907.

Fig. 1.

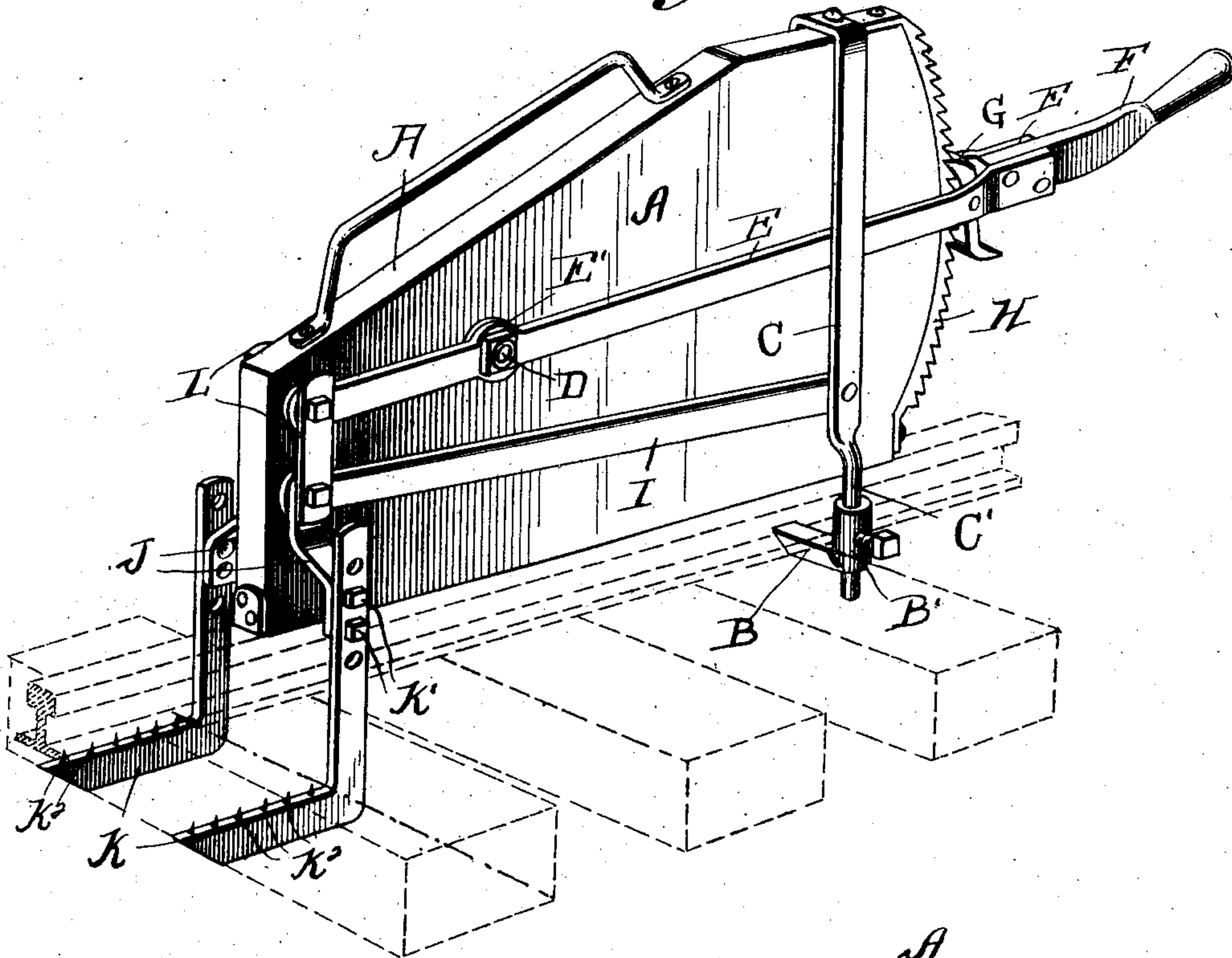
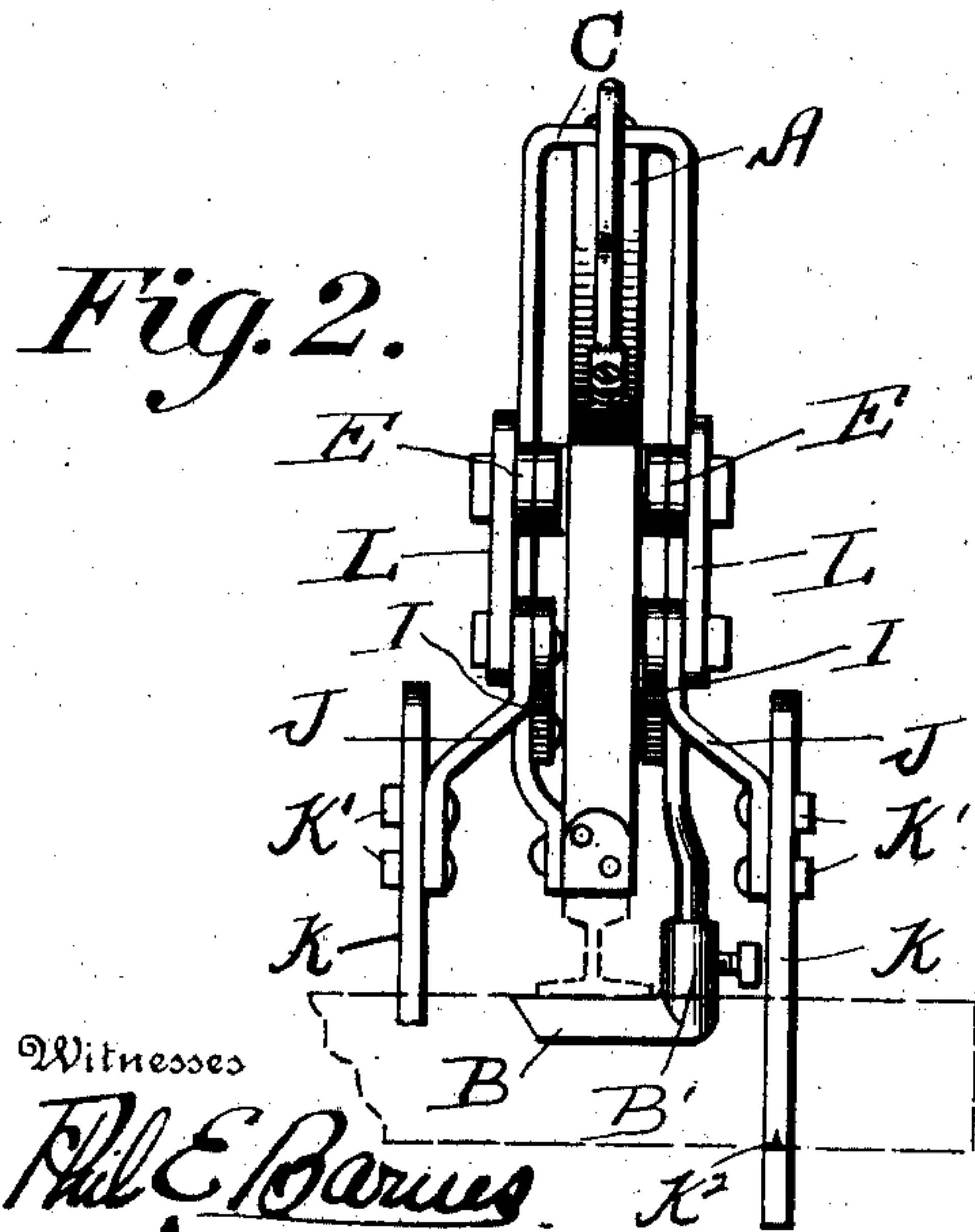


Fig. 2.



Witnesses
Phil E. Barnes
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Fig. 3.

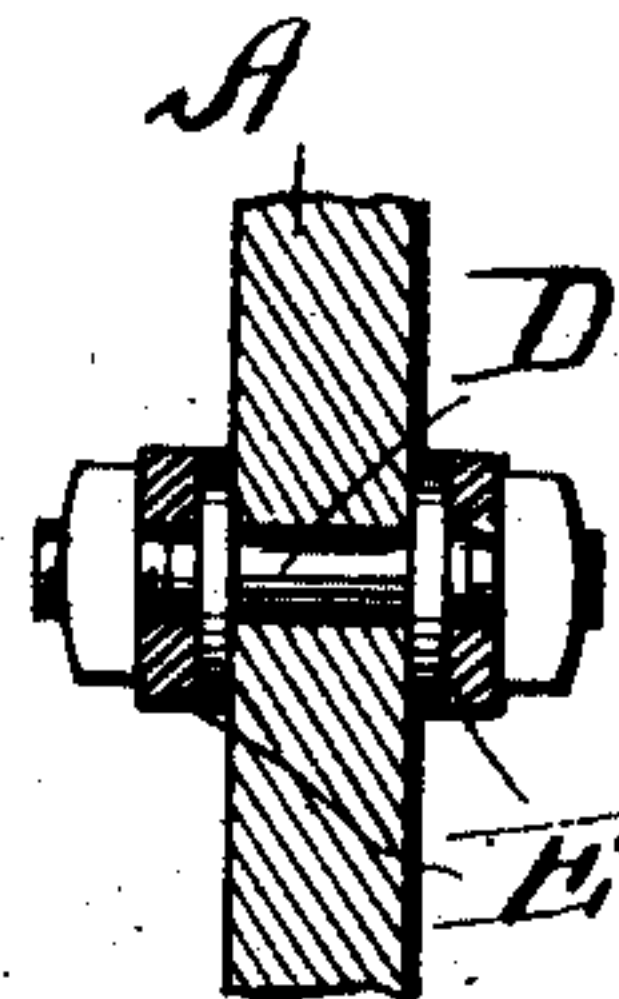
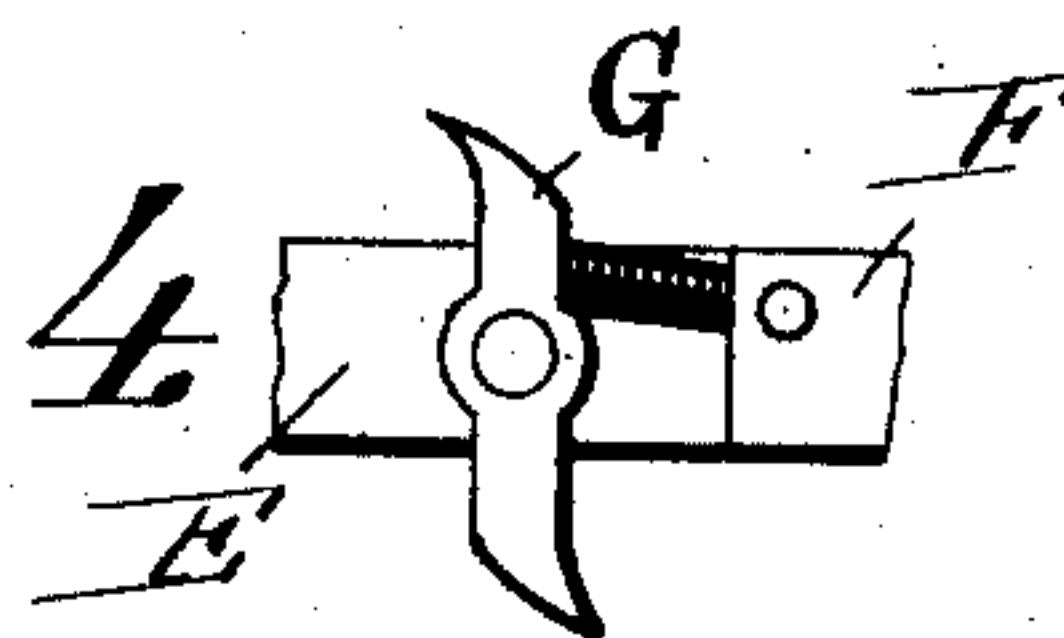


Fig. 4.



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UNITED STATES PATENT OFFICE.

GEORGE BREEZE AND CHARLES BREEZE, OF NEW STRAITSVILLE, OHIO.

TIE-HOLDER.

No. 883,282.

Specification of Letters Patent.

Patented March 31, 1908.

Application filed July 15, 1907. Serial No. 383,842.

To all whom it may concern:

Be it known that we, GEORGE BREEZE and CHARLES BREEZE, both citizens of the United States, residing at New Straitsville, in the county of Perry and State of Ohio, have invented a new and useful Improvement in a Tie-Holder, of which the following is a specification.

This invention relates to tie holders for supporting the tie when the rail is being spiked thereto, the object being to provide a very novel holder which will support the tie in a rigid position under the rail, so that the rail can be readily secured thereto.

Another object of our invention is to provide very novel means for clamping the holder to the rail so that it will be secured in place without any danger of it moving when the spikes are driven into the tie.

Another object of our invention is to provide a holder which is especially adapted for supporting a tie which has been put in place of one which has rotted out on the roadbed, this ordinarily being done by a block and crow-bar, which is very inconvenient.

Still another object of our invention is to provide a holder with adjustable supporting brackets which can be readily locked into any desired position so as to support the tie tightly up against the base of the rail.

With these objects in view, the invention consists in the novel features of construction, combination and arrangement of parts, hereinafter fully described and pointed out in the claims.

In the drawing forming a part of this specification:—Figure 1 is a perspective view of our improved tie holder showing it arranged on a rail and the tie in place, the rail and ties being shown in dotted lines. Fig. 2 is an end view of the same. Fig. 3 is a detail sectional view of the lever-pivot bolt and Fig. 4 is a detail side view of the pawl for locking the lever.

In the drawings A indicates a wooden block adapted to rest on the tread of the rail and be secured thereto by a foot B provided with a sleeve B', carrying a set-screw which is adjustably mounted on the reduced offset end C', of a yoke C which is secured to the top of the block and extends down on either side forming guides for the purpose hereinafter described. The other end of the yoke is secured to the side of the block adjacent its lower edge. The upper edge of the block is beveled as shown at A' and extends

through the block adjacent its forward end, is a pivot-bolt D on which are pivotally mounted the enlarged apertured portions E' of the forked arms E which are secured to a lever F at their rear end and are provided with spring actuated pawls G adapted to engage a rack H secured to the rear edge of the block for holding the arms in the adjusted position, as will be hereinafter fully described.

Pivotally mounted on the inside of the yoke adjacent its lower ends are arms I which carry angled arms J at their free ends, to which are connected the angled brackets K by bolts K' which pass through the openings in the arms, and it will be seen that these brackets can be adjusted to suit different sized ties by removing the bolt and inserting the same through other openings in the brackets. The horizontal edges of the brackets are provided with teeth K² adapted to engage the underside of the tie and prevent the same from slipping. The arms I and J are connected to the ends of the arms E by links L, and it will be seen that when the lever is pressed downwardly, the brackets will be raised so as to draw the tie up against the rail, the pawl engaging the rack holding the arms in their adjusted position so that the spikes can be readily driven into the same.

From the foregoing description it will be readily seen that we have provided a very novel tie holder which is exceedingly simple and cheap in construction, and one which can be easily and quickly placed on a rail so as to support the tie.

Having thus fully described our invention, what we claim as new and desire to secure by Letters Patent is:—

1. A tie holder comprising a block, arms pivotally mounted on said block, and supporting brackets carried by said arms.

2. A tie holder comprising a block provided with means for securing it to a rail, arms pivotally mounted on said block, supporting brackets carried by said arms, and means for locking said arms.

3. A tie holder comprising a block adapted to rest on a rail carrying a rack, arms pivotally mounted on said block, supporting brackets carried by said arms, and a pawl carried by said arms adapted to engage said rack.

4. A tie holder comprising a block adapted to be secured on a rail, arms pivotally mounted on said block, adjustable brackets carried

by said arms, and means for locking said arms.

5 5. A tie holder comprising a block carrying an adjustable foot for securing it on a rail, arms pivotally mounted on said block carrying a lever, adjustable angled brackets carried by said arms provided with teeth, and means for locking said arms.

10 6. A tie holder comprising a block having a yoke secured thereon, arms pivotally mounted on said yoke carrying adjustable supporting brackets, arms pivotally mounted on said block connected to said arms, and means for locking the last mentioned arms.

15 7. The combination with a block pro-

vided with a rack of a yoke secured to said block carrying an adjustable foot, arms pivotally mounted on said yoke carrying angle-supporting brackets, pivot-pins secured in said block, forked arms pivotally mounted on said pin carrying a pawl adapted to engage said rack, and links connecting the free end of said arms to the free ends of the arms carried by the yoke, for the purpose described. 20

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Witnesses:

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