

No. 671,874.

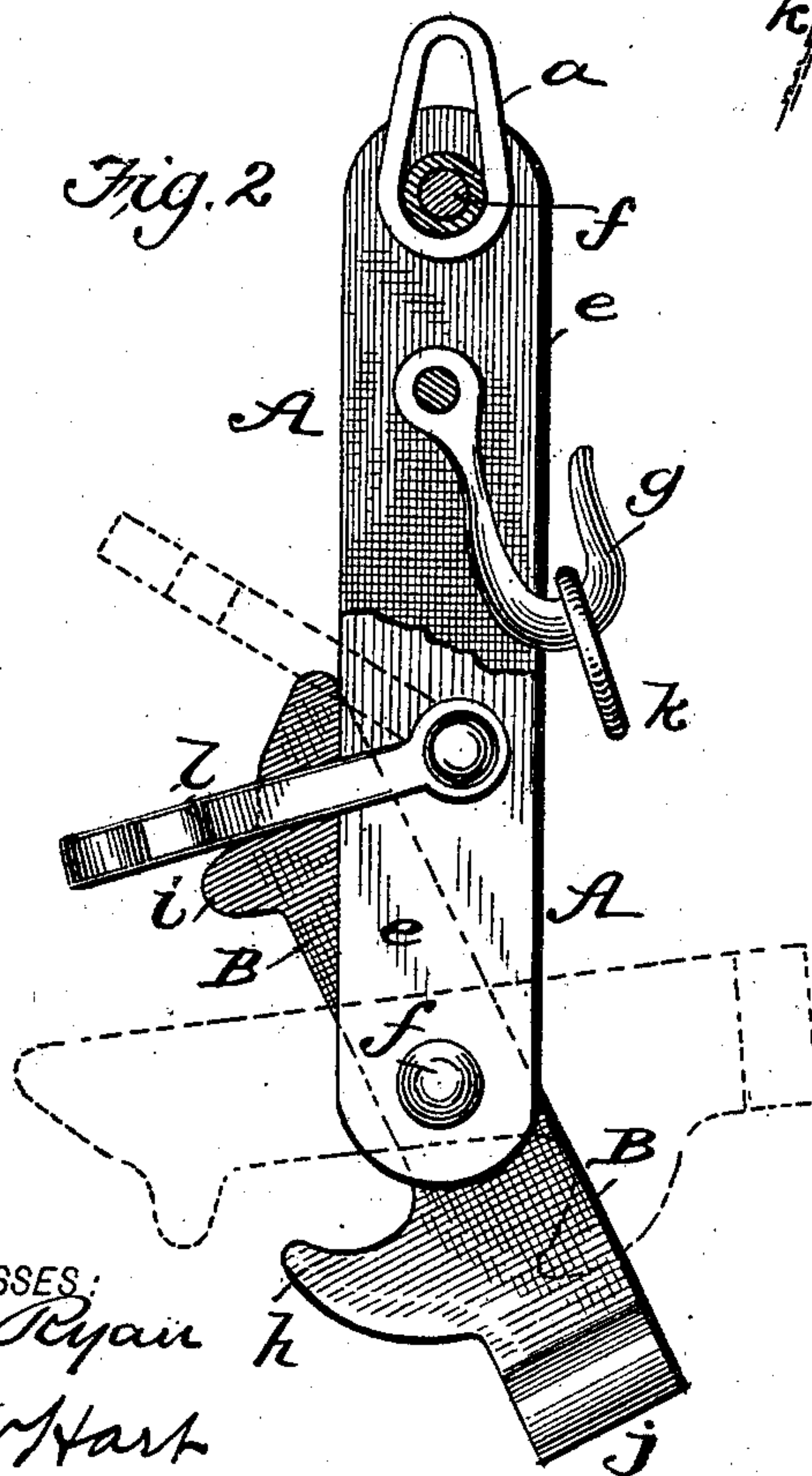
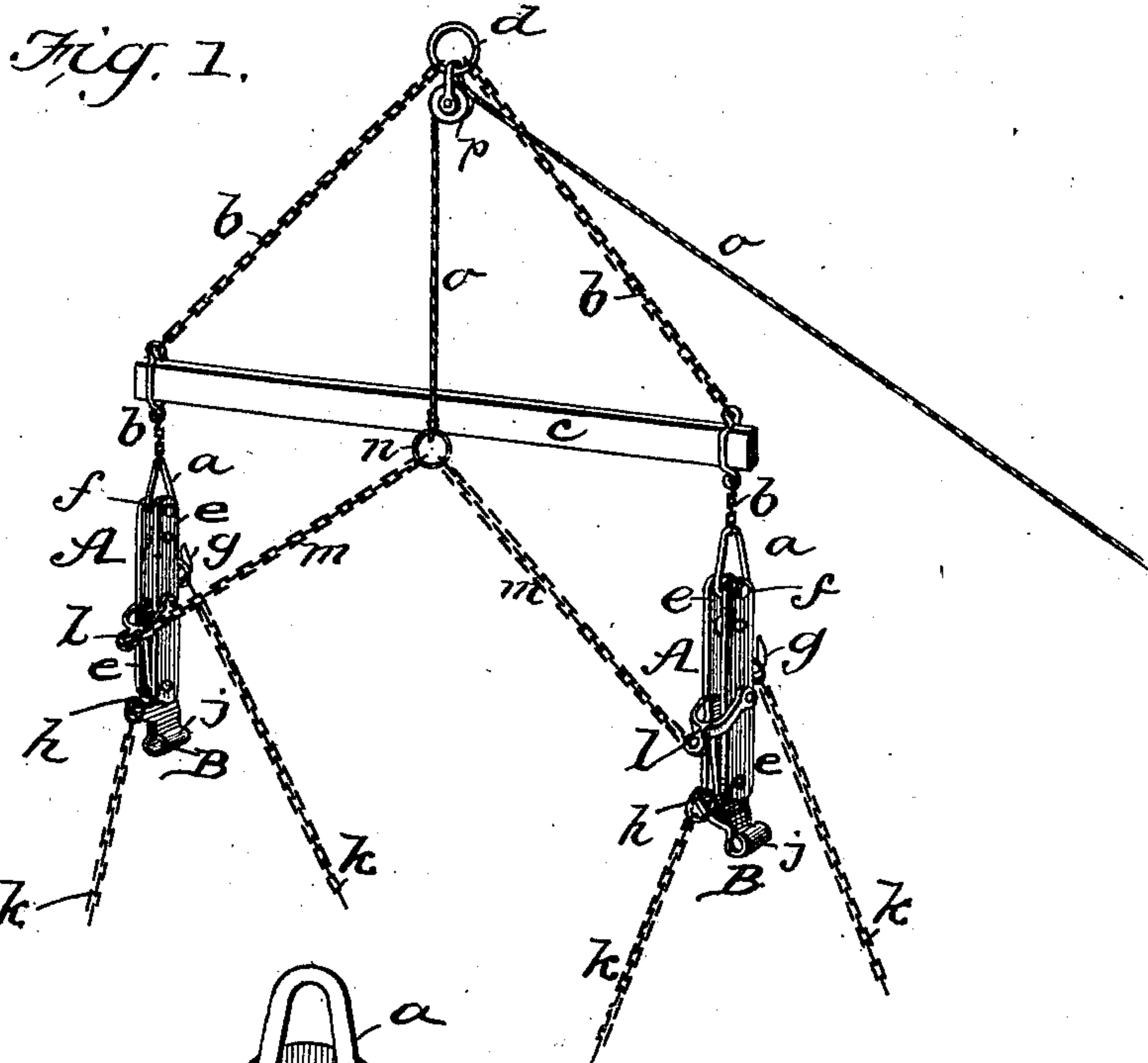
Patented Apr. 9, 1901.

L. H. AVET.

TRIPPING ATTACHMENT FOR CANE SLINGS.

(Application filed Dec. 8, 1900.)

(No Model.)



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

LOUIS H. AVET, OF PLAQUEMINE, LOUISIANA.

## TRIPPING ATTACHMENT FOR CANE-SLINGS.

SPECIFICATION forming part of Letters Patent No. 671,874, dated April 9, 1901.

Application filed December 8, 1900. Serial No. 39,184. (No model.)

*To all whom it may concern:*

Be it known that I, LOUIS H. AVET, a citizen of the United States, residing at Plaquemine, in the parish of Iberville and State of Louisiana, have made certain new and useful Improvements in Tripping Attachments for Cane-Slings, of which the following is a specification.

Slings for lifting sugar-cane, hay, corn, and the like are commonly provided with pivoted hooks which may be tripped to release the sling proper for discharge of the load. Such hooks require to be manually restored to their normal position and reengage with the releasing device. I have devised a construction and arrangement of sling-hooks whereby they are restored to their normal position automatically, thus saving time and labor in the operation of the apparatus.

The invention is hereinafter described and specifically indicated, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of a complete cane-lift embodying my improvement. Fig. 2 is an enlarged side view, part being in section, of one of the bars or hangers to which my invention is applied.

The hangers A are suspended by links *a*, attached to chains *b*, whose lower ends are kept apart by a wooden spread-bar *c* and whose upper ends connect with a hoisting-ring *d*.

Each hanger A consists of two narrow elongated metal plates *e*, spaced apart but secured rigidly together by means of rivets *f*. The aforesaid link *a* is applied to the upper rivet *f*, which is provided with a cylindrical washer that serves as an additional means for holding the plates *e* duly spaced apart. A sling-hook *g* is pivoted between the plates *e* near their upper ends.

My automatic replacing-hooks B are pivoted at the lower end of the hangers A. They consist of a thick metal bar having a lateral prong or hook *h* below its pivot, a lateral projection or lug *i* above said pivot, and a thickened and weighted lower end *j*, as shown. Said lower end is curved or rolled upon itself to form the weight required as a counterbalance. The sling proper, *k*, consisting of

chains, is attached at one end to the upper hooks *g*. When the slings *k* have been passed around a bundle of cane or other substance, their upper ends are attached to the hooks proper, *h*, of the automatic hooks B. The latter are held locked in normal position by yokes *l*, which are pivoted to the body of the hangers A and pass over and engage the beveled upper ends of said hooks B, as shown by full lines. The lugs *i* serve as stops upon which the said yokes *l* rest, as shown. Trip-chains *m* are attached to the free ends of yokes *l* and connect at *n* with a pull-cord *o*, passing over a pulley *p*, attached to the hoisting-ring *d*. It is apparent that upon pulling cord *o* the yokes *l* will be raised, as shown by dotted lines, Fig. 2, thus tripping hooks B, which instantly rotate and allow release of the slings *k*; but so soon as the latter have slipped off the prongs *h* the hooks B swing back to their normal position, so that the yokes *l* may reengage them without manual manipulation.

It will be seen that by reason of the arrangement of the lateral prongs *h* below the pivots of the hooks B the strain on the yokes in the lifting operation is reduced below what it would otherwise be.

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

1. In a sling for lifting cane and other substances, the combination, with hangers proper, of pivoted hooks which are weighted below their pivots and thus adapted to return automatically to their normal position after release of the sling proper, and trip devices, which engage the upper ends or shanks of said hooks, substantially as shown and described.

2. The combination, with hangers proper and yokes pivoted thereto as specified, of the automatic trip-hooks for attachment of slings proper, the same being pivoted to the lower portions of the hangers, and provided with lateral prongs at points below their pivots, and weighted at their lower ends so as to normally maintain a vertical position, substantially as shown and described.



3. In a sling for the purpose specified, the combination, with the hangers proper, formed of two parallel plates, and bifurcated yokes pivoted to the sides thereof, of the automatic  
5 trip-hooks which are pivoted between the lower ends of said plates, and weighted below their pivots, and provided with lateral prongs, and a lateral projection to serve as a rest for the yokes, as shown and described.

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Witnesses:

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