

O. M. Harrison. Automatic Dropper for Harvesters

118236

PATENTED AUG 22 1871

Fig. 1

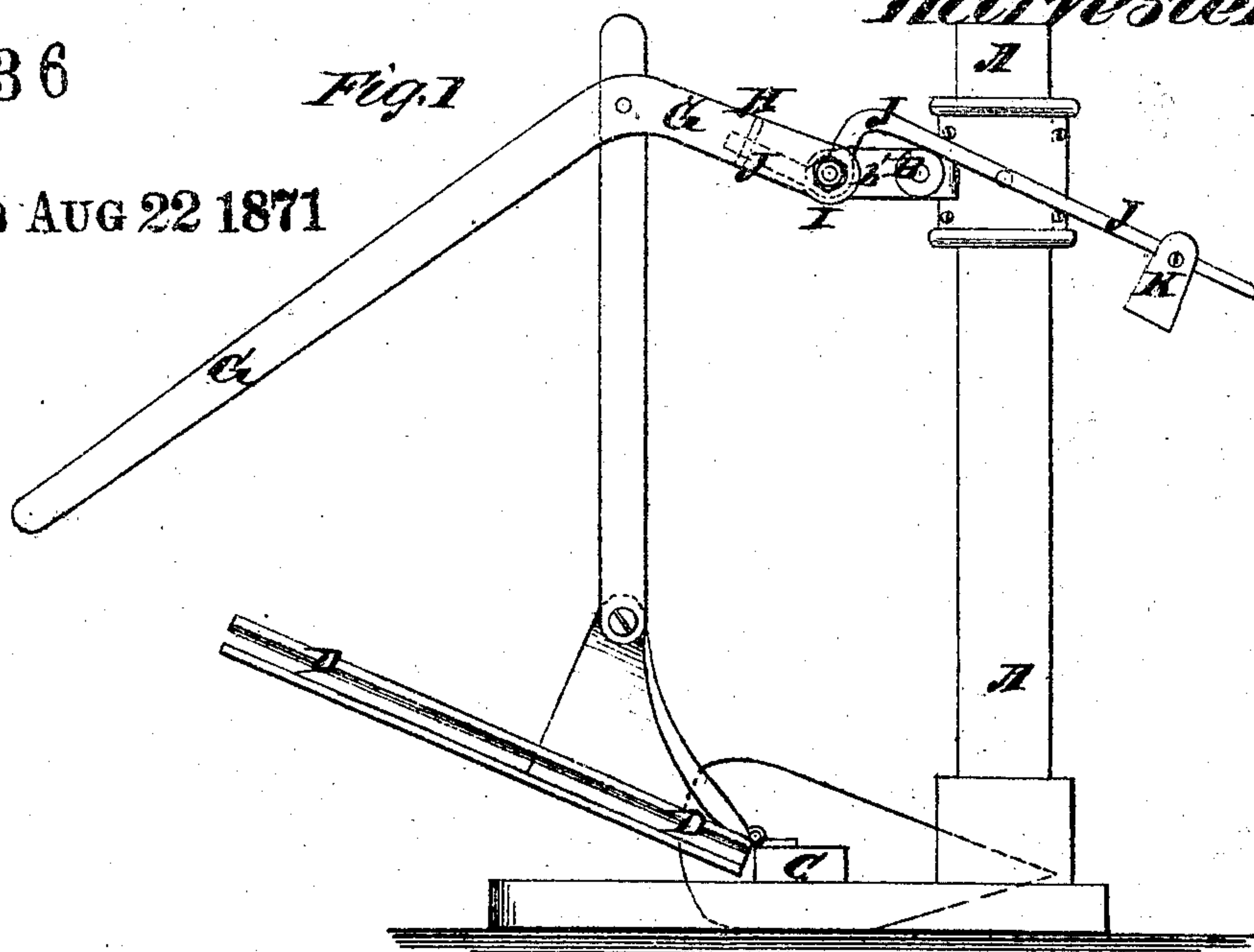
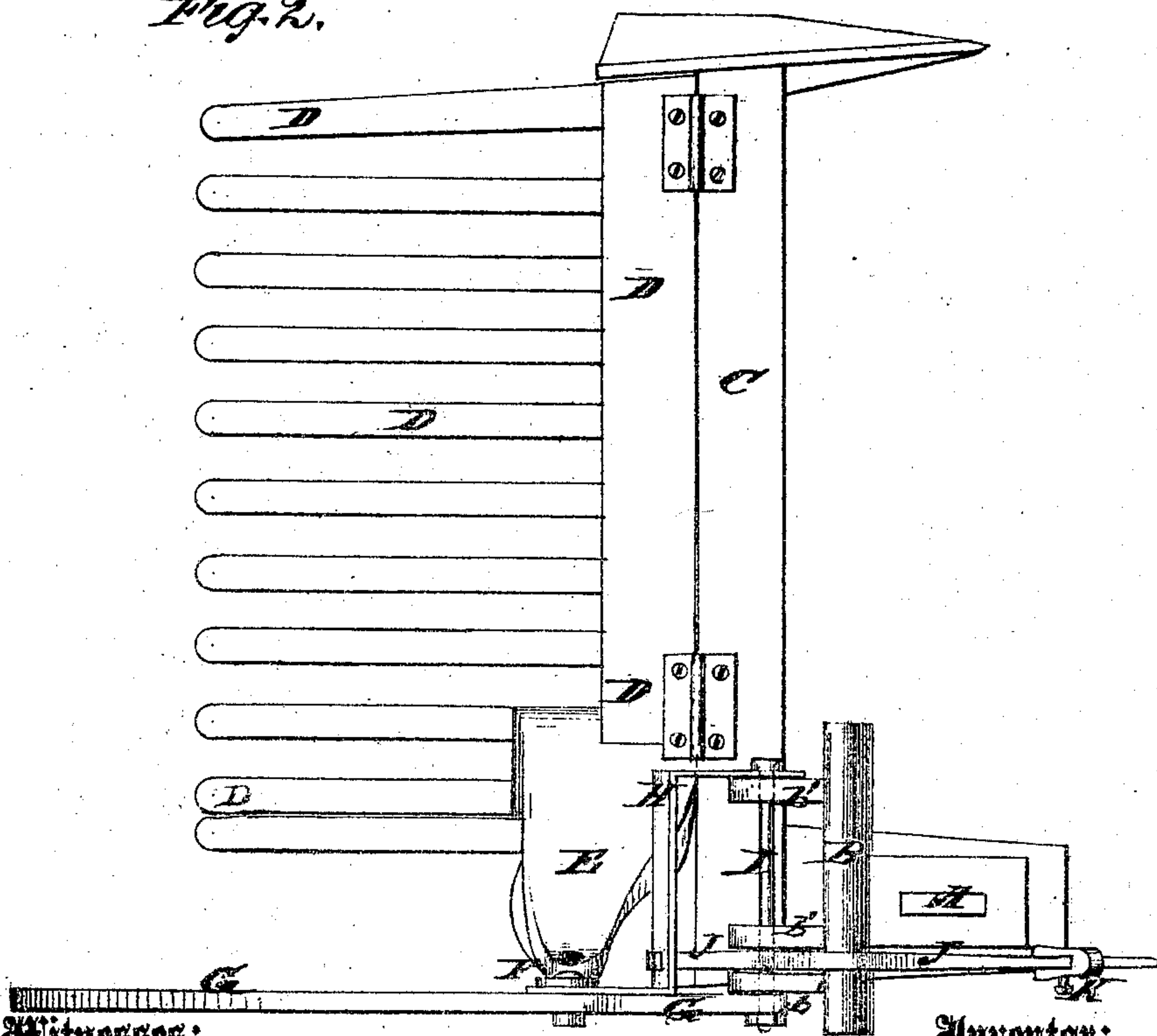


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

ORREL M. HARRISON, OF GLASGOW, MISSOURI.

IMPROVEMENT IN HARVESTER-DROPPERS.

Specification forming part of Letters Patent No. 118,236, dated August 22, 1871.

To all whom it may concern:

Be it known that I, ORREL M. HARRISON, of Glasgow, in the county of Howard and State of Missouri, have invented a new and useful Improvement in Automatic Dropper for Harvesters; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a detailed view of a portion of a harvester to which my improvement has been attached. Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

My invention consists in a new and peculiar way of applying a weighted lever to the dropper of a harvester, as hereinafter fully described and subsequently pointed out in the claim.

A represents the reel-post, to the upper part of which is attached the box or bearing B for the inner end of the reel-shaft. C is the finger-bar, upon the forward side of which the cutters work, and to the rear side of which is hinged the dropper D. E is an arm attached to the inner end of the dropper, and to the upper end of which is pivoted the lower end of the bar F. The upper end of the bar F is pivoted to the cut-off bar G. The upper part of the cut-off bar G is pivoted to lugs *b'* formed upon the rear side of the reel-box or bearing B by a rod, I, as shown in Figs. 1 and 2. The cut-off bar G is steadied and supported against side movement by the brace H, the inner end of which is attached to the said bar G, and the other end is pivoted to the outer end of the rod I. About the construction and operation of all these parts there is nothing new. J is a lever, which is pivoted to the rod I, and the rear end of which enters a notch upon the under side of the brace H. The lever J is bent or curved so as to pass over the reel-box or bearing B, and its forward end projects in front of the reel-post A, as shown in Figs. 1 and 2. K is a weight, which slides upon the for-

ward end of the lever J, and is secured to said lever by a set-screw, so that it may be adjusted conveniently. The weight K should be adjusted so that it may overbalance the weight of the dropper D by the weight of the bundle of grain.

By this construction, as soon as the desired amount of grain has been received upon the dropper D it overbalances the weight K and drops, allowing the grain to slide from it to the ground. As the dropper descends the cut-off bar G moves down, bringing the cut-off rod into a position to intercept the falling grain and keep it from mingling with that upon the dropper. As soon as the grain has slipped from the dropper D the weight K again overbalances the said dropper and raises it, which movement again operates the cut-off bar and raises the cut-off rod, allowing the grain to drop upon the dropper and accumulate thereon until it again overbalances the weight K, and so on, the dropper acting automatically, and, at the same time, making the bundles of a uniform size. By adjusting the weight K upon the lever J the bundles may be made larger or smaller, as may be desired.

I desire to disclaim any novelty in the general idea of operating the dropper automatically by a weighted lever, as I am well aware that the principle of producing an automatic action by a weight or spring is very old in the mechanic arts. My object is only to secure protection on the particular means employed by me to produce this action effectually, and to embody a new mode of applying this well-known principle to harvester-droppers.

Having therefore described all that is necessary to a full understanding of my invention, what I desire to protect by Letters Patent is—

A weighted lever, J, when pivoted to the rod I entering a notch upon the under side of a brace, H, and passing over the reel-box in front of the reel-post, as specified.

ORREL M. HARRISON.

Witnesses:

THOMAS SHACKELFORD,
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