

(No Model.)

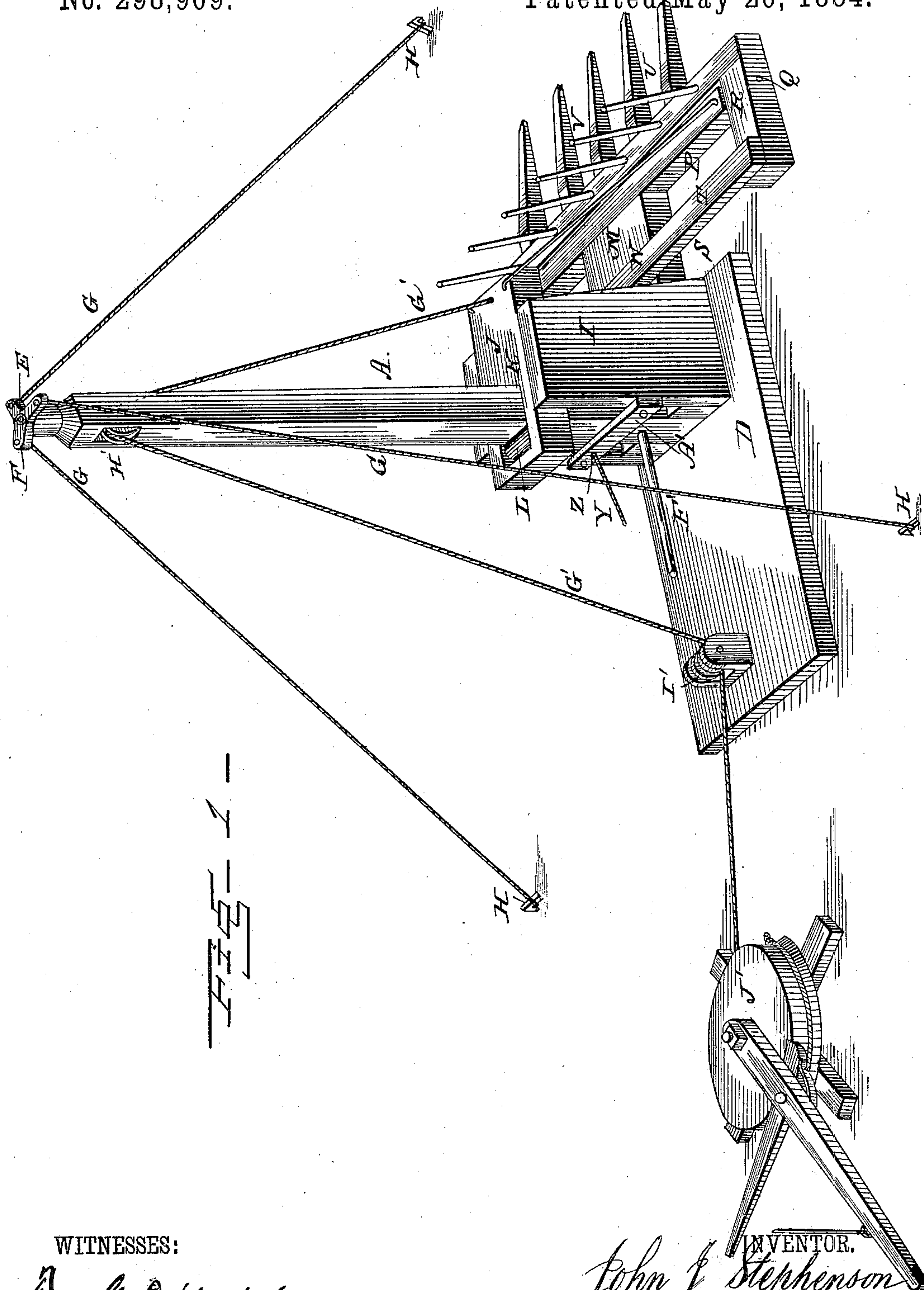
3 Sheets—Sheet 1.

J. J. STEPHENSON.

HAY STACKER.

No. 298,909.

Patented May 20, 1884.



WITNESSES:

Ad. S. Dieterich
Wm. J. Fecher

INVENTOR.

John J. Stephenson
By Louis Baggett & Co.
ATTORNEYS.

(No Model.)

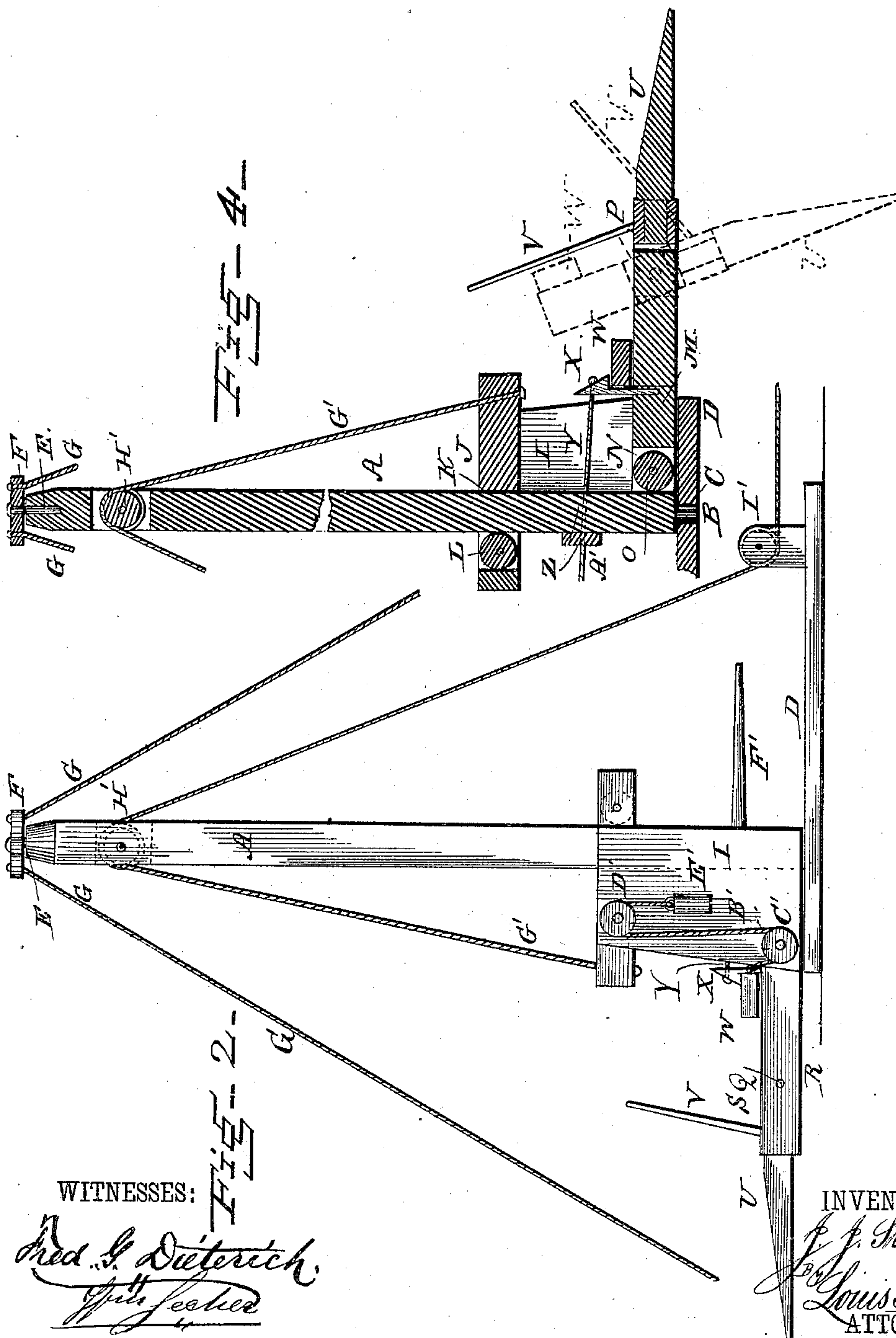
J. J. STEPHENSON.

3 Sheets—Sheet 2.

HAY STACKER.

No. 298,909.

Patented May 20, 1884.



WITNESSES:

Fred. L. Dieterich,
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INVENTOR.

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(No Model.)

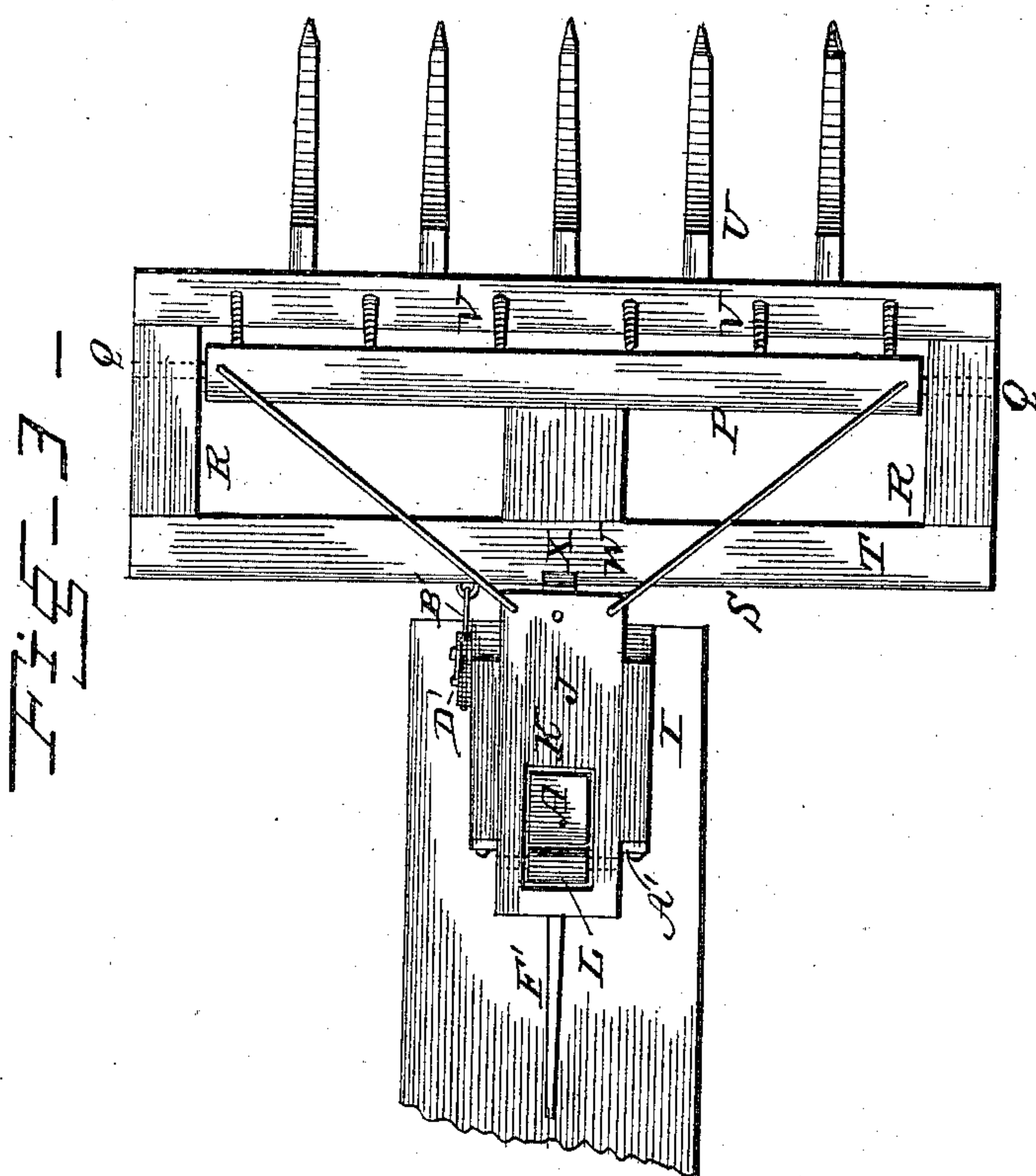
3 Sheets—Sheet 3.

J. J. STEPHENSON.

HAY STACKER.

No. 298,909.

Patented May 20, 1884.



WITNESSES:

Wm. L. Dietrich
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INVENTOR.

John J. Stephenson
By Louis Baggett & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN J. STEPHENSON, OF CANTON, MISSOURI.

HAY-STACKER.

SPECIFICATION forming part of Letters Patent No. 298,909, dated May 20, 1884.

Application filed February 18, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. STEPHENSON, a citizen of the United States, and a resident of Canton, in the county of Lewis and State of Missouri, have invented certain new and useful Improvements in Hay-Stackers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved hay-stacker. Fig. 2 is a side view of the same. Fig. 3 is a top view of the elevator-rake and the sliding casing; and Fig. 4 is a vertical section of the post, the elevator, and casing.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to that class of hay-stackers in which the hay elevator or carrier travels up and down upon an upright post; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates a post having a pivot, B, at its lower end, which is inserted in a socket, C, in a sill, D, which is placed upon the ground, while the upper end of the post is provided with a pivot, E, which turns in a perforation in the center of a plate, F, from the periphery of which pass a number of guy-ropes, G, secured at their lower ends to stakes H, driven into the ground at different points around the post, serving to keep the post upright. A casing, I, slides upon the post, and consists of a top piece, J, having a rectangular perforation, K, through which the post passes, the rear end of which perforation or slot is provided with a roller, L, bearing against the side of the post, and of a bottom piece, M, having a slot or recess, N, at its rear end, the inner end of which slot is provided with a roller, O, bearing against the front side of the post. The bottom piece of the casing projects forward, and is provided at its forward end with a cross-piece, P, the ends of which form trunnions Q, upon which the end pieces, R, of the carrier S

are pivoted, the carrier consisting of a rectangular frame, T, having a row of teeth, U, at its forward side, upon which the hay is deposited from the horse-rake, and a row of upright teeth, V, which prevent the hay from falling over the rear end of the rake. The rear side, W, of the carrier-frame is held down by a spring-catch, X, projecting upward from the bottom piece of the casing, and a cord or chain, Y, is secured to the upper end of the catch, passing out through a perforation, Z, in a cross-piece, A', at the rear side of the casing down to the ground, from whence it may be pulled, releasing or allowing the rake to be tilted by the weight of the hay upon it. A cord, B', is secured to the rear side piece of the rake and passes over a pulley, C', upon the lower end of one of the side pieces of the sliding casing, whereupon it passes over a pulley, D', at the upper end of the side piece, and is provided with a weight, E', at its end, which will serve to draw the rear side piece of the rake down after the hay has been dumped, allowing the catch to engage the said piece, and thus place the rake or carrier in its normal or horizontal position again. An arm, F', projects from the rear side of the lower portion of the post, and serves to turn the post upon its pivots, directing the load of hay upon the carrier to fall in any direction desired. A rope, G', is secured to the upper end of the sliding casing, and passes over a pulley, H', at the upper end of the post, from which it passes under a pulley, I', upon the end of the bottom sill, and is secured at its end to a capstan, J', which is adapted to wind the rope and again release it when the carrier is to be lowered after its load has been dumped.

The operation of my hay-stacker will be readily understood by the foregoing description, taken in connection with the accompanying drawings, without further explanation.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination of the upright post, the sliding casing, pulleys journaled upon one side of the casing, the cross-bar having trunnions, the rectangular carrier pivoted on said trunnions and having horizontal teeth and upright teeth, means for raising the carrier-frame, a

spring-catch engaging the rear side of the carrier, a rope for disengaging the said catch, a weight, and a cord connecting the weight and carrier and passing over the pulleys upon the side of the sliding casing, as and for the purpose shown and set forth.

2. The herein-described hay-stacker, consisting of the upright pivoted pole having the guy-ropes, the sliding casing having the anti-friction rollers and formed with the cross-piece upon the forward end of its bottom piece, the carrier-frame pivoted upon the trunnions upon the ends of the cross-piece and having the

horizontal and upright teeth, the spring-catch, the pulleys upon the side of the casing, the weighted rope, the hoisting-rope, and the capstan, all constructed and arranged as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JOHN J. STEPHENSON.

Witnesses:

CHAS. WILLYOUNG,
N. C. STAPLES.