(No Model.) 2 Sheets—Sheet 1.

P. F. CHAMBARD.

HAY ELEVATOR AND STACKER.

No. 265,944. Patented Oct. 17, 1882.

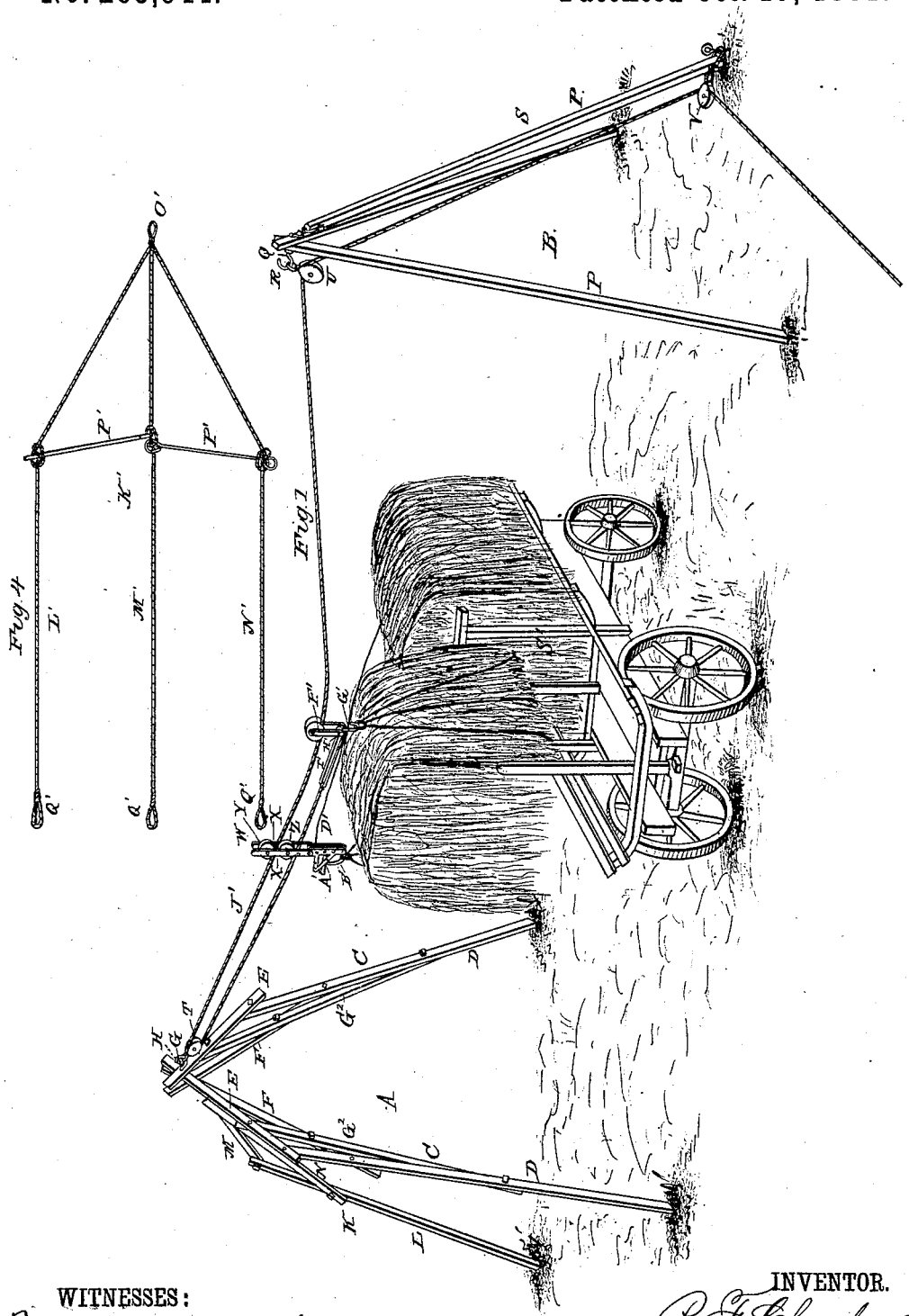

Fig. 1

Fig. 4

WITNESSES:

Fred. G. Dieterich

J. R. Sittel

INVENTOR.

P. F. Chambard,

by A. Snow & Co.

ATTORNEYS.

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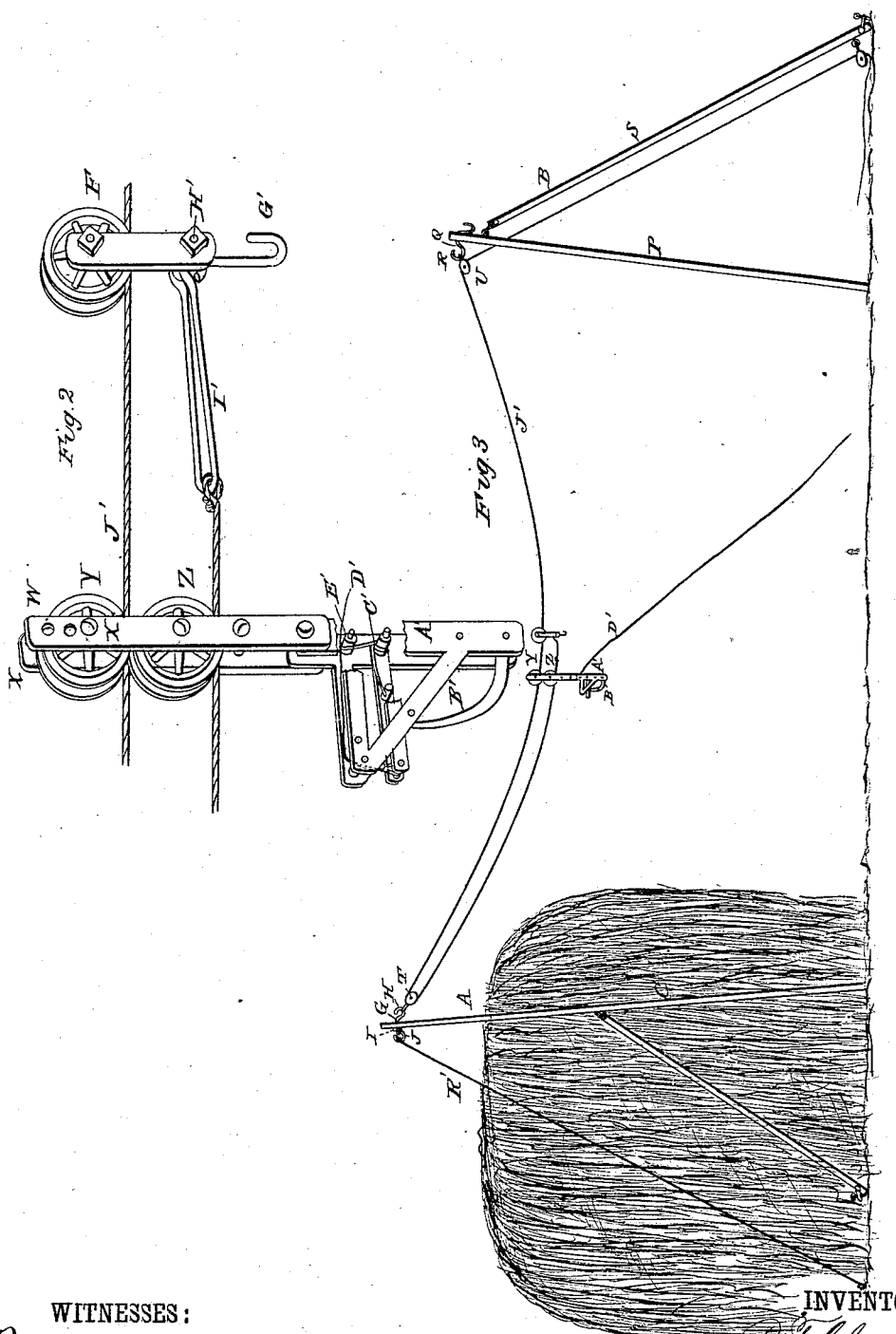

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Fred G. Dieterich

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UNITED STATES PATENT OFFICE.

PETER F. CHAMBARD, OF FAYETTE, OHIO.

HAY ELEVATOR AND STACKER.

SPECIFICATION forming part of Letters Patent No. 265,944, dated October 17, 1882.

Application filed September 2, 1882. (No model.)

To all whom it may concern:

Be it known that I, PETER F. CHAMBARD, a citizen of the United States, residing at Fayette, in the county of Fulton and State of Ohio, have invented a new and useful Hay Elevator and Stacker, of which the following is a specification, reference being had to the accompanying drawings.

Figure 1 is a perspective view of my device complete in position for operation. Fig. 2 is a detail view, in perspective, of the carrier. Fig. 3 is a side view, partly in section, illustrating a modification; and Fig. 4 is a plan view of the sling.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to an improved device for stacking hay, &c., the construction of which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A and B represent the frames or supports of my improved hay-stacking device.

The frame A consists essentially of two legs or compound beams pivoted together at the top. Said compound beams, which are denoted by letter C, consist each of a foot-piece, D, two extension-pieces, E F, bolted to said foot-piece, respectively at its upper end and at some distance from the top and on opposite sides, as shown, and a diagonal brace, G^2, bolted to the pieces D E F, and connecting the same securely, thus making the legs C sufficiently long, light, and of great strength. The upper ends of the extension-pieces E F E F are connected or pivoted together by a bolt, G, having at its front end an eye or hook, H. The rear end of bolt G has a jam-nut, I, provided with an eye or hook, J.

K is an additional leg or brace, made up of two pieces, L M, connected by a diagonal brace, N, and provided at its upper end with a clevis or shackle, O, by which it is connected to the hook J.

The frame B consists of two legs, P P, pivoted together at the top by a bolt, Q, having hook or eye R, a third leg or brace, S, being suitably connected near the pivoting-point of the legs P P, as shown.

Upon the hooks or eyebolts at the upper ends of the frames A B, are hung single pulley-blocks T U. A similar block, V, is suitably secured to the lower end of the leg or brace S of frame B.

W is a block consisting of two side pieces, X X, between which two pulleys, Y Z, are journaled, one above the other. Between the lower ends of the side pieces, X, is pivoted a frame, A′, in the lower part of which is pivoted a hook, B′, engaging a suitably-constructed spring-catch, C′.

D′ is the trip-rope, which is attached to the outer end of catch C′, and, passing over a guide, E′, extends down to within reach of the operator.

F′ is a single pulley-block, between the lower ends of the side pieces of which is pivoted a hook, G′; also, pivoted upon the pin H′, which sustains the hook G′, is a bail, I′, extending in the direction of the block W.

J′ is the draft-rope, one end of which is attached to the bail I′. It passes from thence under the lower pulley, Z, in block W; thence over the pulley in block T at the head of frame A; thence under the pulley Y in block W, and under the single pulley in block F′; thence over the pulley in block U at the head of frame B, and, finally, over the pulley in block V at the lower end of brace S of said frame. It will be seen that by applying draft to the free end of the rope the carrier, consisting essentially of the blocks W F′, is raised and drawn in the direction of the head of frame A, the bail I′ serving to prevent the said blocks from coming too near together and the rope from tangling.

K′ is the sling, which consists of three ropes, L′ M′ N′, connected at one end, and provided with a loop, O′. At some distance from their connected ends the three ropes are spaced by metallic braces P′, and their free ends are provided each with a loop, Q′.

The operation of my invention will be readily understood. The frames A B are set up at a suitable place in the field where it is desired to build the stack, which is easily done by first laying them flat down, then anchoring the braces by means of stakes driven through shackles at their lower ends, and finally raising them gradually, the legs being provided at their lower ends with points, which take in the ground. In loading the wagon the sling is put

in the bottom; or the load may be subdivided into any desired number of divisions, of suitable size and weight, by properly arranging the requisite number of slings. When the stacking-place is reached the loop O′ of the sling is adjusted upon the hook G′ of block F′. The loops Q′ are adjusted upon the trip-hook B′ of block W, which is then thrown into engagement with the spring-catch C′. Draft being then applied to the rope J′, the load is raised to the desired height, when, by the aid of the trip-rope, the free ends of the sling-ropes are released from the hook B′ and the load dumped.

When a long stack is to be built I avail myself of the modification shown in Fig. 3 of the drawings. In this case I substitute for the brace K of frame A a rope, R′, the lower end of which is made fast to the ground in any suitable manner. By paying said rope out and moving the legs C of frame A in the direction of frame B the dumping-point may be gradually brought nearer to frame B, and a stack of any desired length thus be built.

As shown in Fig. 1 of the drawings, the hay-rack may be provided with a central vertical partition, S′, enabling the load to be readily made up and taken off in two separate sections or divisions. Two or more such partitions S′ may also be used when desirable.

I claim, and desire to secure by Letters Patent of the United States—

1. The frames A B, consisting each of a pair of legs pivoted together by a bolt having at its front end a hook or eye, and provided with a jam-nut having a hook to sustain a third leg or brace, as set forth.

2. The frame A, having legs or compound beams C, consisting or made up of the parts D E F G^2, bolted together as described, as and for the purpose set forth.

3. The combination of the frames or supports A B, the carrier, consisting of blocks W F′, the former having pulleys Y Z, and pivoted frame A′, provided with trip-hook B′, spring-catch C′, and trip-rope D′, the pulleys T U V, arranged as described, the draft-rope J′, and the sling K′, as and for the purpose set forth.

4. In a hay-stacking device constructed substantially as described, the carrier consisting essentially of the block W, having a pivoted frame carrying a trip-hook, and the block F′, having a permanent pivoted hook, G′, and bail I′, as and for the purpose set forth.

5. The herein-described hay-sling, consisting of the parallel ropes L′, M′, and N′, connected at one end, and provided with a loop, O′, spaced at some distance from said connected end by separate metallic braces P′ P′, and having loops Q at their outer free ends, as set forth.

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

PETER F. CHAMBARD.

Witnesses:
C. K. ALLEN,
WM. BAGGER.