

(No Model.)

L. W. CARSON.

HAY STACKER.

No. 252,427.

Patented Jan. 17, 1882.

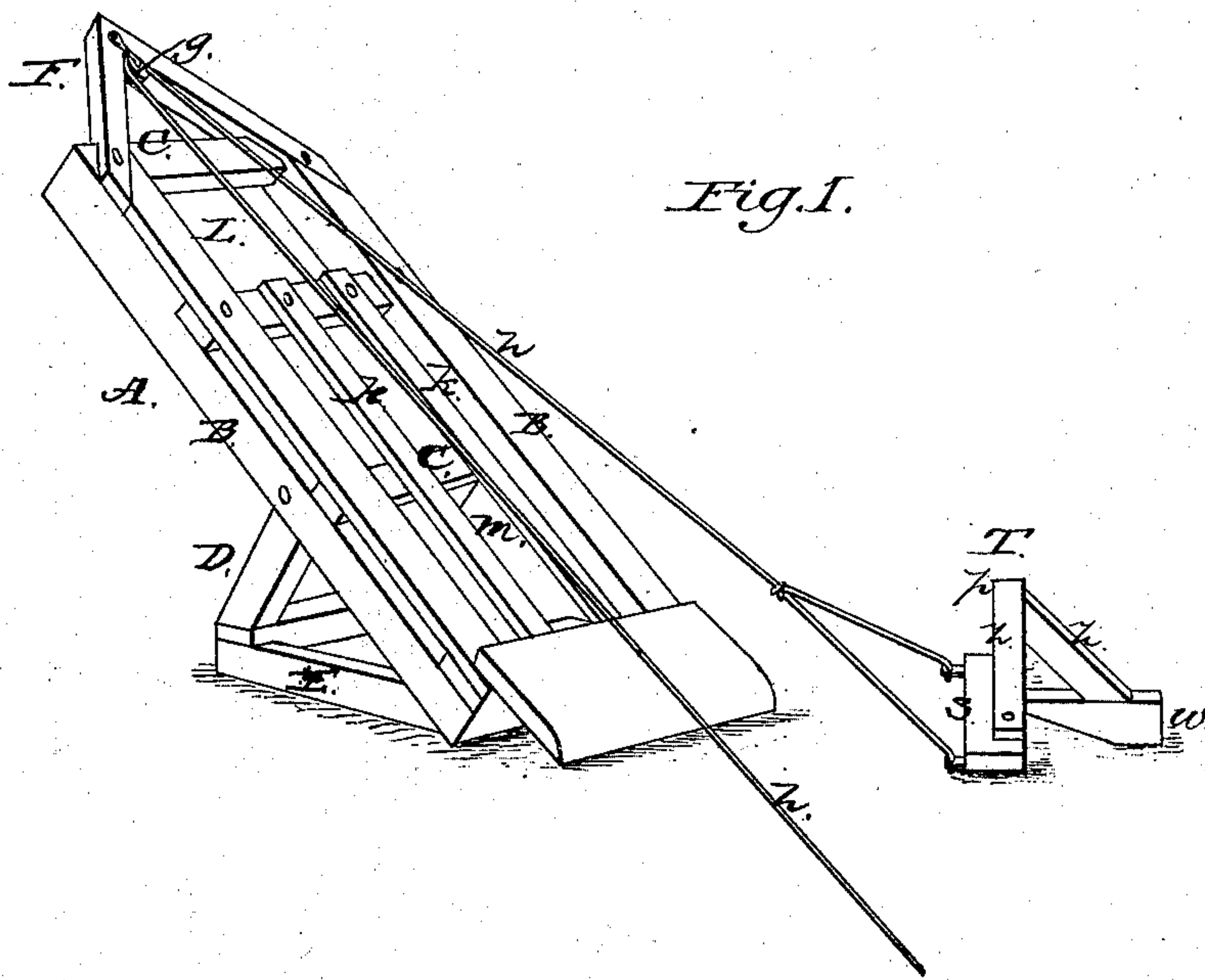


Fig. 1.

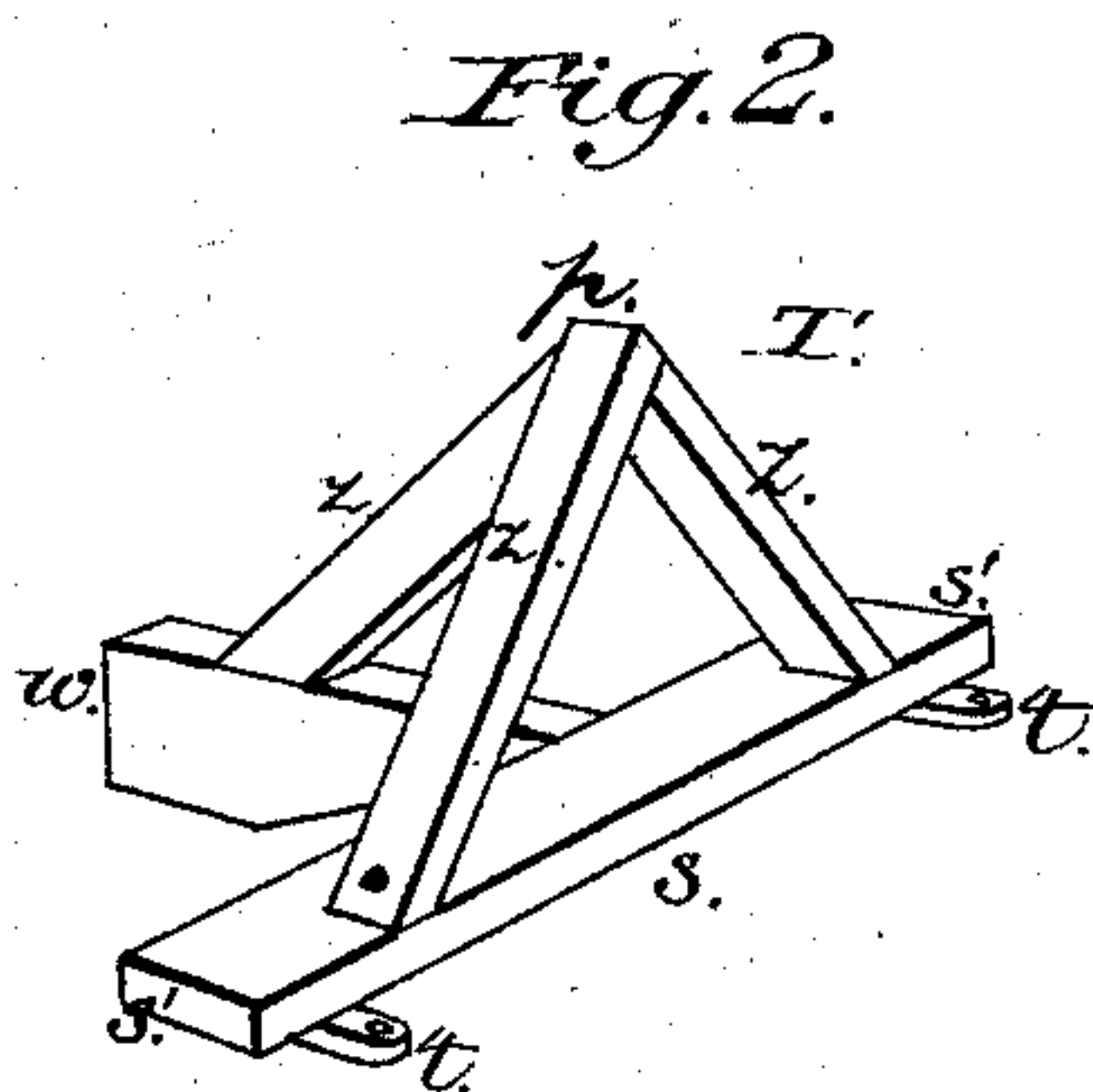


Fig. 2.

WITNESSES

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UNITED STATES PATENT OFFICE.

LEONIDAS W. CARSON, OF MANSON, IOWA.

HAY-STACKER.

SPECIFICATION forming part of Letters Patent No. 252,427, dated January 17, 1882.

Application filed July 16, 1881. (No model.)

To all whom it may concern:

Be it known that I, LEONIDAS W. CARSON, a citizen of the United States, resident of Manson, in the county of Calhoun and State of Iowa, have invented a new and valuable Improvement in Hay-Stackers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a perspective view of apparatus embodying my invention. Fig. 2 is a detail perspective view of the drag.

This invention has relation to hay-stacking machines; and it consists in the construction and novel arrangement of the inclined plane, its supports, central guideway, and opening at the top of said guideway, the drag and its rudder or guide-flange, and the ropes and pulleys whereby the parts are operated, all as hereinafter set forth.

In the accompanying drawings, the letter A designates the inclined plane, constructed of suitable inclined longitudinal beams, B, and cross-bars C, and supported by means of standards or struts D, which are secured at their lower ends to the base E, which is made broad, and is strongly fastened to said struts and to the lower end of the inclined plane, being designed to hold stones or weights, when required, or to be staked to the ground. The upper portion of the inclined plane is designed to project over beyond the inner line of the base, so as to extend well over the stack. At the upper end of the inclined plane the frame is extended by means of the angle F, to which is secured a pulley, g, said pulley being centrally arranged and designed to carry the rope h, which is connected to the drag. Extending upward from the base portion of the incline centrally and longitudinally are the guide-bars k, between which is the guideway m. Above said bars, and below the angular extension F, is a large opening, L, arranged between the side bars of the inclined plane, at the upper portion thereof, as indicated in the drawings.

T represents the drag, on which the hay to be stacked is loaded. This drag consists of a transverse body portion, s, a rear guide or rudder, w, and angularly-arranged bars z, extending upward therefrom, and secured together at a common point, p.

The transverse body portion s is secured to two battens, t, the ends s' projecting beyond the said battens, to which latter the forked cord is attached, as shown.

The rudder w is centrally arranged, and is designed to engage the guideway m as the drag is pulled up the inclined plane until the opening L is reached. At the same time the battens t pass between the guide-bars k and beams B, the ends s' of portion s resting and sliding on the latter. When the rudder reaches the opening L it drops through, turning the drag on its ends s'. Then the hay is quickly discharged through the opening on the stack below. After the hay is discharged the rope is slackened, when gravity will cause the drag to slide down the incline, the portions z striking the lower edge of the opening and turning the drag over, in which position it runs down for another load.

I am aware that an inclined frame having an opening therein, in combination with a carriage and operating rope and pulley, is not new, and I lay no claim thereto; but

What I claim is—

The inclined frame A, having the guide-tracks k k, forming the way m, and having its upper portion extending beyond the base, with the opening L in such overhanging portion, in combination with pulley g, rope h, and drag T, having body s and guide or rudder w, all arranged to operate as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

LEONIDAS WILSON CARSON.

Witnesses:

BUTLER S. WILLIAMS,
CLARENCE G. JACKSON.