

(No Model.)

J. N. KAILOR.
CLOVER HULLER FRAME.

No. 472,792.

Patented Apr. 12, 1892.

Fig. 2.

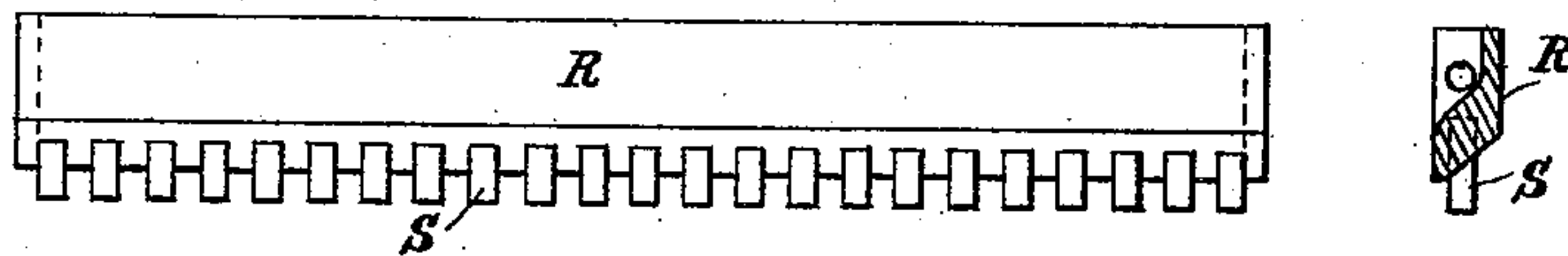
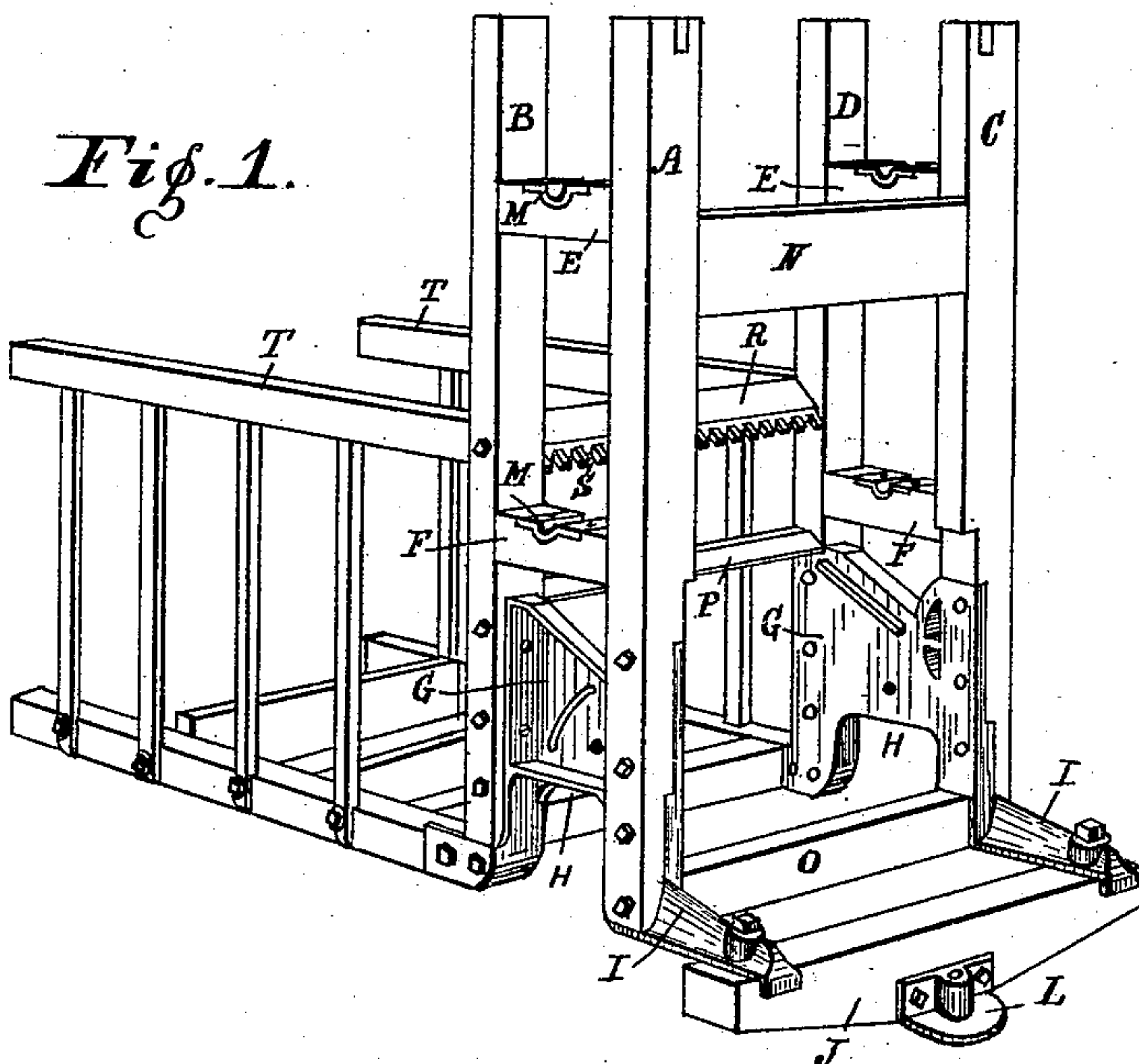


Fig. 1.



WITNESSES:

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CLOVER-HULLER FRAME.

SPECIFICATION forming part of Letters Patent No. 472,792, dated April 12, 1892.

Application filed October 29, 1891. Serial No. 410,180. (No model.)

To all whom it may concern:

Be it known that I, JOHN N. KAILOR, a citizen of the United States, residing at Columbus, in the county of Bartholomew and State of Indiana, have invented a new and useful Improvement in Clover-Huller Frames, of which the following is a specification.

My invention relates to an improvement in the construction of frames for clover-hulling machines of that class in which two operating-cylinders are used and in which the main frame is mounted upon carrying-wheels.

The objects of my improvements are, first, to provide an easily-constructed frame having firm bearings for the operating-cylinders, and, second, to provide, in connection with the lower front portion of the frame, a strong support for the front bolster, all as hereinafter fully set forth.

The accompanying drawings illustrate my invention.

Figure 1 represents a view in perspective of the frame of a clover-hulling machine embodying my improvements. Fig. 2 represents, on a larger scale, a plan and a cross-section of one of the cross-beams of the frame.

The frame for the reception of the hulling-cylinders consists of the vertical posts A, B, C, and D, arranged in pairs on opposite sides of the machine. The posts forming each pair are connected by short beams E F and at their lower ends by a cast-iron plate G, which I term the "arch-plate." Each of the plates G is notched on its lower edge, as at H, so as to allow the front carrying-wheels (not shown) to turn under the frame, and each plate is also provided at its lower front edge with a horizontally-projecting arm I. To the arms I of the plate G, I bolt the opposite ends of the bolster J, having the fifth-wheel L, to which an axle having carrying-wheels may be attached. Beams E and F are rigidly connected with their respective pairs of uprights by suitable framing, and they are each provided with a metallic boxing or bearing M, adapted to receive one of the journals of a hulling-cylinder, the beams E forming supports for the upper cylinder and the beams F forming supports for the lower cylinder. The plates G are securely bolted, respectively, to the lower ends of the posts A B and C D, so that their arms I project toward the front

of the frame. Posts A and C are connected by cross-beams N and O, and posts B and D are connected by a wooden cross-beam P and a metallic cross-beam R. Beam R is provided on its front edge with a series of fingers S, either formed integral therewith or inserted, and the upper surface of the beam is inclined downward and inward.

The purpose of the fingers S is to co-operate with the teeth of the lower hulling-cylinder when it is in position in separating the clover-seeds from the hulls, and the inclined position of the upper surface of the beam is to direct the clover which has passed the upper cylinder to the lower cylinder.

In clover-hullers as heretofore constructed a separate plate having fingers of leather or like material has been placed in the frame and temporarily secured to perform the guiding and separating functions of this beam R. By making this a permanent part of the frame a cheaper and much more substantial structure is afforded.

The plates G form a strong connection for the lower part of the frame and also a firm and rigid support for the bolster.

A secondary frame T, of ordinary construction, to receive the rake-bars and usual separating and winnowing screens is secured to the rear side of the main frame.

I claim as my invention—

1. In a frame for clover-hullers, the combination of the vertical posts arranged in pairs, the posts forming each pair being connected by the beams E and F and the metallic plate G, and connecting cross-beams connecting said pairs of posts together, substantially as set forth, one of said cross-beams being of metal and having the projecting fingers S and arranged as shown and described.

2. In a frame for clover-hullers, the combination, with the vertical posts and the connecting horizontal beams forming therewith a rectangular frame, of the pair of metallic plates G G, each having an arm I and secured to the opposite sides of the frame, and the bolster secured to said arms, all substantially as and for the purpose set forth.

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Witnesses:

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