

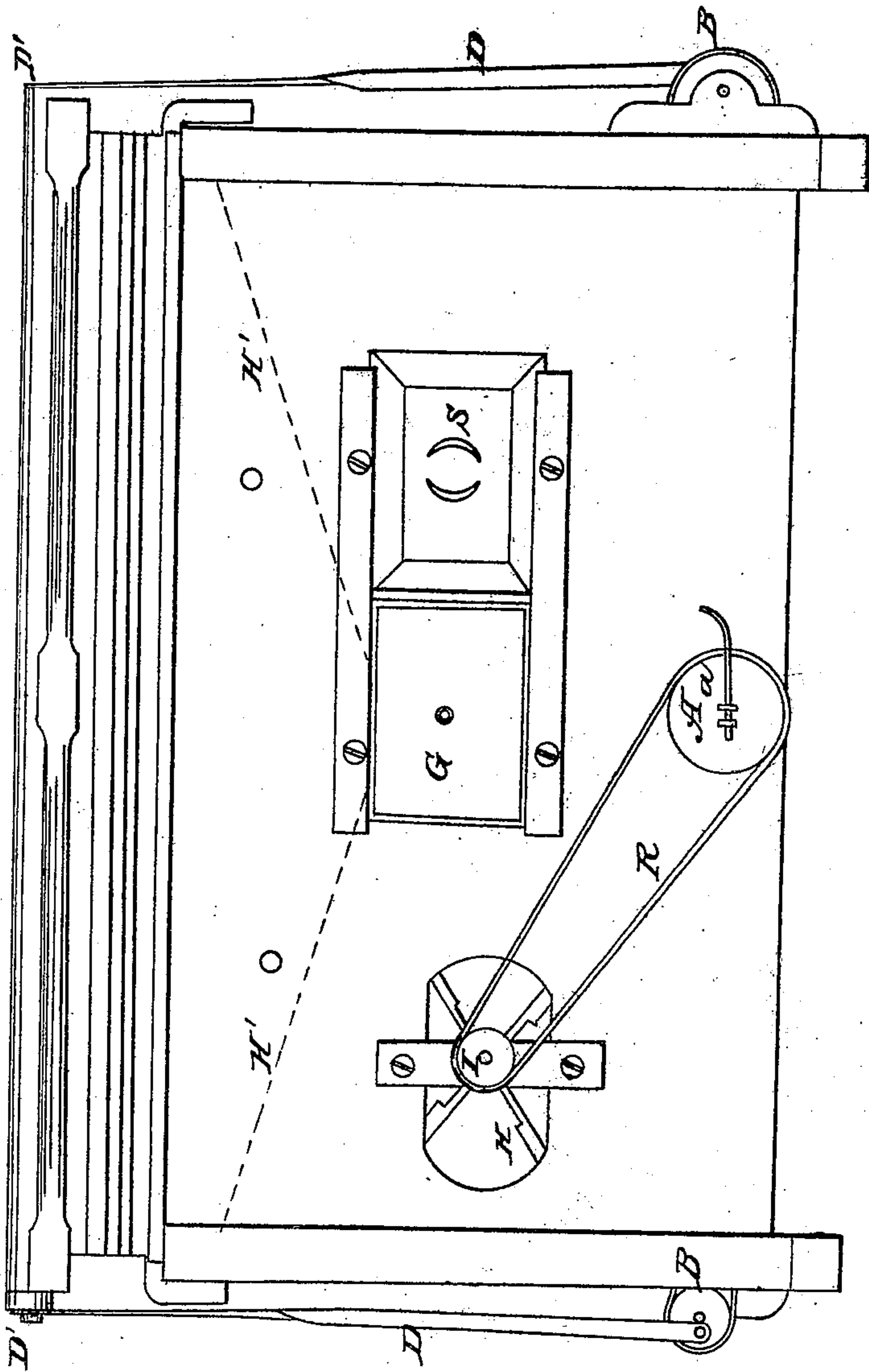
J. P. JAGER.

Thrashing Machine.

No. 39,049.

Patented June 30, 1863.

Fig. 1.



Witnesses
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A. Brown

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by Daniel Breed

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Fig. 2

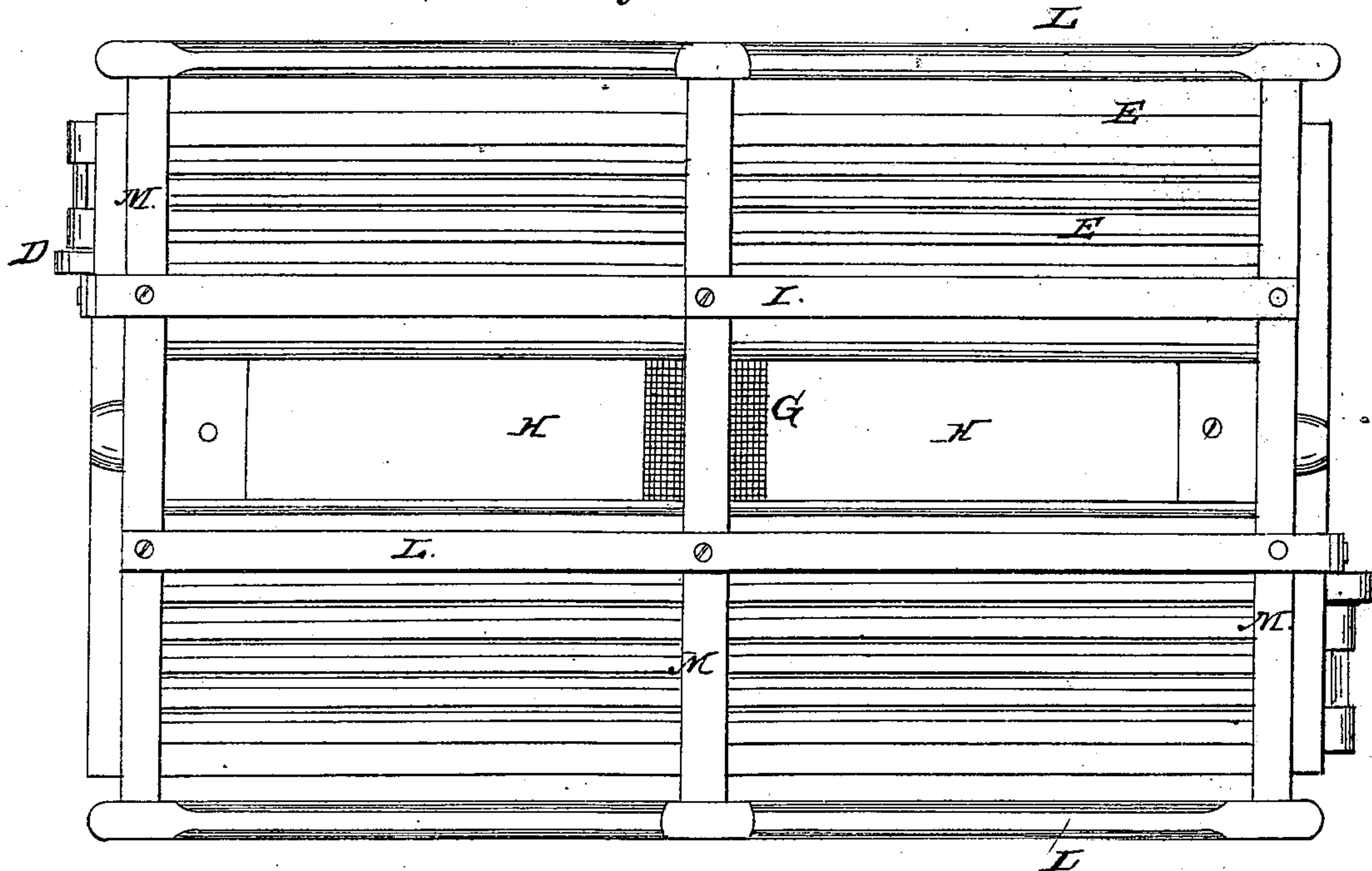
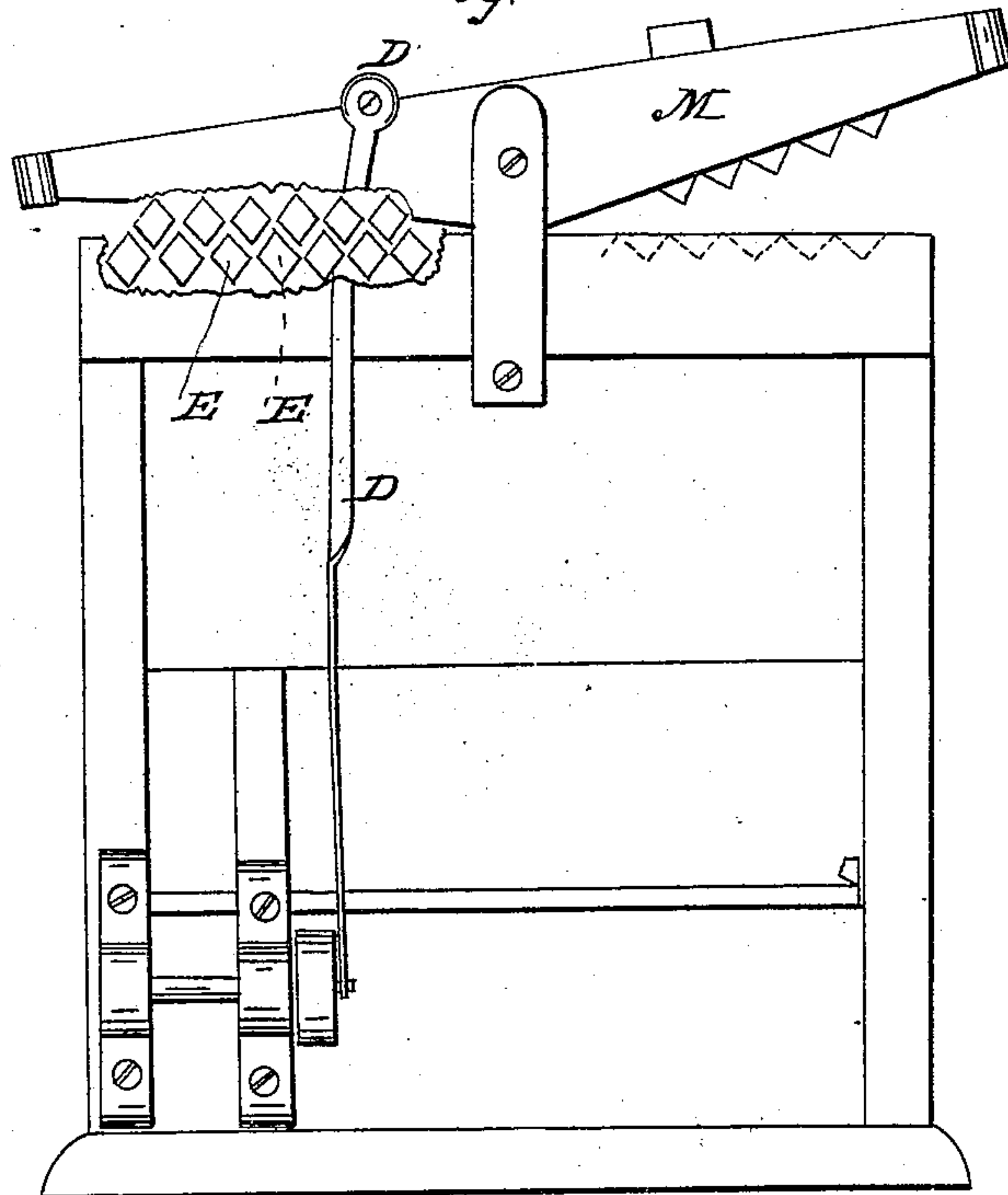


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN PH. JAGER, OF EUREKA, WISCONSIN.

IMPROVEMENT IN THRASHERS.

Specification forming part of Letters Patent No. 39,049, dated June 30, 1863.

To all whom it may concern:

Be it known that I, J. P. JAGER, of Eureka, in the county of Winnebago and State of Wisconsin, have invented a new and useful Improvement in Thrashers and Winnowers; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The main feature of my invention consists of a strong and heavy rocking frame or beater, having two series of sharp ribs, so arranged as to strike a corresponding bed or platform, the latter also being constructed with edged ribs in order to thrash the grain by a sort of sliding stroke, as the ribs of the beater fall upon and between the ribs of the bed or platform.

In connection with this leading feature of my invention, I have made other subordinate improvements in the arrangement of the gearing and other parts of the machine.

My machine is intended for thrashing and winnowing not only grain, but also beans, peas, &c.

In the accompanying drawings, Figure 1 is a side view of my machine. Fig. 2 is a top view of the same. Fig. 3 is an end view, a portion being represented as cut away, in order to show the shape of the bars composing the beater and the thrashing bed or platform.

The bars in both the beater and bed are set so that the sharp corner of the bars may strike the grain or straw, the bars of the beater falling between the bars of the bed, as seen in Fig. 3 at the left hand. The machine being set in motion, the beater rocks backward and forward, rapidly thrashing the grain, the latter being put into the machine between the beater and bed in the form of a flooring. The rocking frame or beater has strong cross-bars M, Fig. 2, firmly bolted or otherwise fastened to other bars, L, running lengthwise. Two series of ribs or bars, E, are arranged on the under side of this frame, (one series on each side,) and set obliquely to each other, as seen in Fig. 3, so that the rocking stroke will bring each series of the beaters down alternately to or between the ribs of the bed with a crushing or chopping stroke, the straw being completely broken at every stroke of the machine. The two outer

bars, L, of the beater may serve as a handle to work the machine by hand, as man-power is sufficient to thrash beans, peas, &c.

My machine is intended to be driven generally by horse-power, but steam or any other suitable power may be applied by connecting such power to the main or driving axle or shaft of the machine at the coupling, (seen at A, Fig. 1, in the usual manner,) the parts being fastened by a proper bolt, a. This axle A extends across the bottom of the machine, and carries two pulleys, each of which is connected with one of the pulleys, B, Fig. 1. The pulleys B carry crank-pins from which connecting-rods D pass, to connect at D' with the beater, in order to give motion to the latter.

The thrashing apparatus is supported by the frame of a winnowing-machine, as seen in Figs. 1 and 3, and this frame must be very strong. The fans of the winnowing-machine are driven by the main driving-axle or shaft of the thrasher, the pulley A, Fig. 1, giving motion to the pulley I and fans H by means of band R. The screen G is shaken by the usual crank and elbow motion connected with the opposite end of shaft i, Fig. 1. As the grain is thrashed out it falls through between the bars of the bed, when two directing-boards, H', (indicated in dotted lines, Fig. 1,) carry the grain upon the screen or sieve, G, Figs. 2 and 1. This screen is shaken in the usual manner, and receives a blast of air from the fans H, driven by pulley I. Thus the grain is winnowed and falls from the machine.

In a working machine, I propose to iron off the bars of the bed and beater with flat round iron in order to render them substantial and durable. This is especially desirable when the machine is used for breaking flax and hemp, for which use it is well adapted.

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

The combination of the rocking beater-frame with a fan and screen, substantially in the manner and for the purposes set forth.

JOHN PH. JAGER.

Witnesses:

H. N. ROSEKRANS,
J. C. THRALL.