

(No Model.)

V. LAPHAM.

REAPING OR MOWING MACHINE KNIFE.

No. 265,105.

Patented Sept. 26, 1882.

Fig. 1.

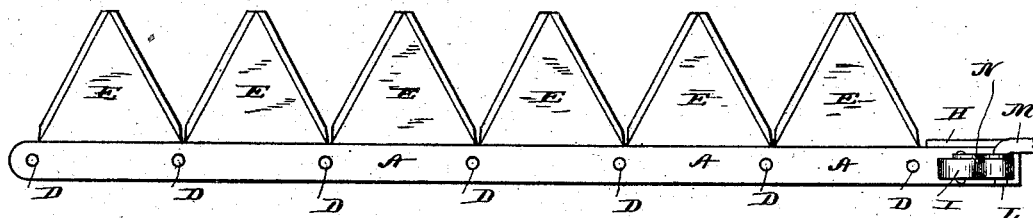


Fig. 2.

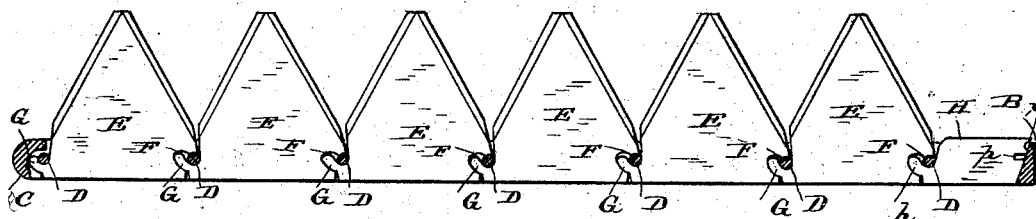


Fig. 3.

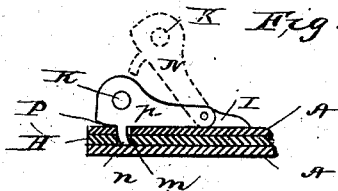
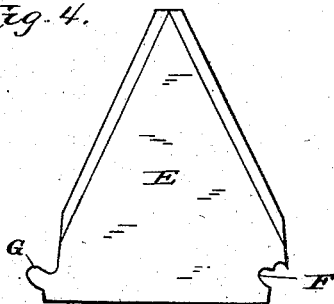


Fig. 4.



Witnesses,
Edwin L. Jewell,
J. J. McCarthy.

Inventor,
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By C. M. Alexander,
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UNITED STATES PATENT OFFICE.

VALENTINE LAPHAM, OF MARION, ASSIGNOR OF TWO-THIRDS TO JOHN S. FRANZ, OF SAME PLACE, AND J. B. FRANZ, OF MANSFIELD, OHIO.

REAPING OR MOWING MACHINE KNIFE.

SPECIFICATION forming part of Letters Patent No. 265,105, dated September 26, 1882.

Application filed January 3, 1882. (No model.)

To all whom it may concern:

Be it known that I, VALENTINE LAPHAM, of Marion, in the county of Marion, and in the State of Ohio, have invented certain new and useful Improvements in Knives for Reaping-Machines, Mowing-Machines, and Machines for Mowing Lawns; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention relates to certain improvements in knives for mowing-machines, and it has for its objects to provide an improved means whereby a series of detachable knives or cutters may be secured in the cutter-head in such manner that one or more may be removed for sharpening or in order to be replaced in case of injury. These objects I attain by the devices illustrated in the accompanying drawings, in which—

Figure 1 represents a top view of my device complete; Fig. 2, a longitudinal horizontal sectional view of the cutter-head, taken on a line just above the upper faces of the knives; Fig. 3, a detached longitudinal vertical section of a portion of the device, showing the latch for locking the knives or cutters in the cutter-head, and Fig. 4 a detached view of one of the knives.

The letter A indicates two flat parallel bars, and B and C two interposed metallic plates. These plates are placed between the bars, one at each end, the plate B at the inner end being inclined on its inner face, as indicated in Fig. 2, and the plate C at the outer end being curved on its inner face, as shown. The plates are firmly secured together by means of bolts D passing through them at equidistant points, the ends being riveted in countersunk apertures, so that the cutter-head upon its upper and lower surfaces will be perfectly smooth.

The letter E indicates the detachable knives or cutters. The said cutters or knives have angular cutting-edges, as usual, and near their rear edges, on one side, are provided with

curved recesses F, and on the other side with curved lugs G, which are adapted to enter and interlock with the recesses, as indicated, the said lugs extending and locking under the transverse bolts also. The lug of the outer knife-section locks under the curved plate at the outer end of the cutter-head, as shown in Fig. 2, and the inner cutter is locked at its recessed side by means of a plate, H, which is provided at one end with a curved lug, h, the other end being beveled, so as to fit against the inclined edge of the plate B. The plate H is provided with a lug, i, at its upper outer corner, by means of which it may be removed from between the bars.

The letter I indicates a block mounted upon the upper side near the inner end of the cutter-head. This block has a transverse aperture, K, for the reception of the pin L of the pitman. To the said block is pivoted a latch, N, provided with a projection, n, which is adapted to pass through an opening, P, in the upper bar of cutter-head and enter a slot, m, in the plate H, so as to hold said plate in place and lock the parts firmly together. The latch is provided with an aperture, p, through which the pin of the pitman passes when the latch is down, thus locking the latch in place.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

In combination with the bars A A, the connecting-bolts D, the knives E, provided with the curved lugs G, adapted to engage under the said bolts, and with curved recesses F, into which the said lugs are adapted to set, the plates B and C, and the locking-plate H, and locking device N, all arranged substantially as and for the purposes specified.

In testimony whereof I affix my signature, in presence of two witnesses, this 17th day of December, 1881.

VALENTINE LAPHAM.

Witnesses:

CASS WILSON,
J. T. MATTHEWS.