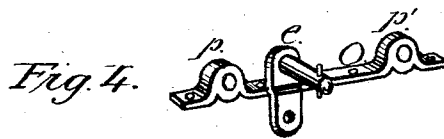
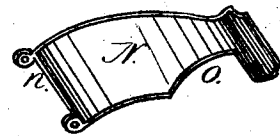
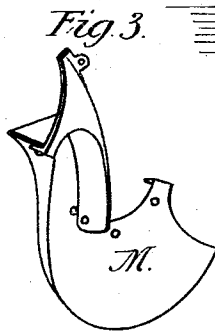
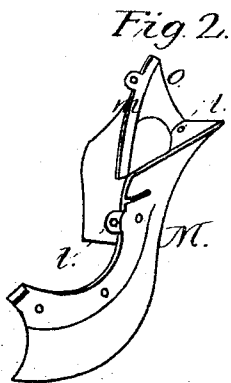
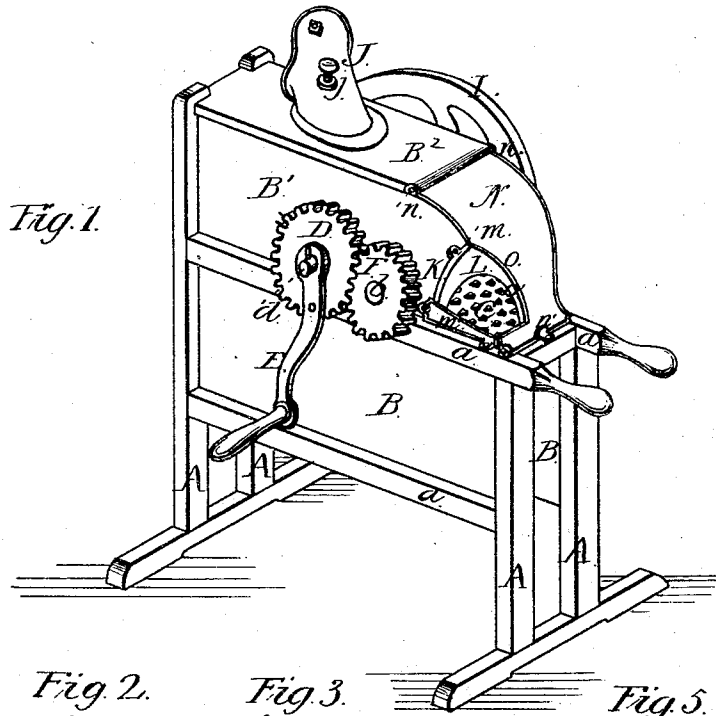


H. L. WHITMAN.
Corn-Shelling Machines.

No. 157,047.

Patented Nov. 17, 1874.



WITNESSES

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HENRY L. WHITMAN, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN CORN-SHELLING MACHINES.

Specification forming part of Letters Patent No. **157,047**, dated November 17, 1874; application filed November 10, 1874.

To all whom it may concern:

Be it known that I, HENRY L. WHITMAN, of the city of St. Louis, in the county of St. Louis and State of Missouri, have invented certain new and useful Improvements in Corn-Shellers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to certain improvements in the construction and arrangement of the breast for the picker-wheel and the cob-chute, the nature of which will hereinafter be more fully described and explained.

Figure 1 is a perspective view of the corn-sheller, to which my improvements are applied. Figs. 2 and 3 are perspective views, showing my construction of the cob-carrier and cob-chute. Fig. 4 is a perspective view of the journal-bearing plate. Fig. 5 is a perspective view of the lid or cover.

Similar letters of reference indicate corresponding parts in all the figures.

In the drawing, A A A are the posts, *a a* the girts, B B¹ the side panels, and B² the top, of the sheller-case. C is the picker-wheel, mounted on shaft *b*. Shaft *b* also carries a large spur-wheel, which, through the medium of a small gear-wheel, rotates the fluted wheel within the sheller (which carries the ear) in a manner substantially the same as in other machines of this kind. D is a pinion mounted on a stud, *d*, projecting from the standard *e*, which forms a part of the journal-bearing plate O, hereinafter described. E is the crank placed on the hub of pinion D, by means of which the said pinion is rotated. Pinion D meshes with the gear-wheel F fixed to the picker-wheel shaft *b*. I is the balance-wheel, mounted on the shaft of the fluted wheel before referred to. J is the throat, through which the corn is fed. It is provided with a rag-piece or tongue, regulated by a set-screw, *j*. The rear ends of the panels B¹ are rounded off, so as nearly to conform to the periphery of the picker-wheel. The lower corner of one of the panels B¹ is cut away to form a segmental opening for the entrance of the cob-chute, as at K. L is the piece forming the upper part of the cob-chute, placed within the case, as shown in Fig. 1, and ex-

tended inward nearly to the face of the picker-wheel, sufficient room being allowed for the free movement of the latter. The piece L is connected with piece M, forming the breast and the lower portion of the chute, by rivets *l l*, and is secured to the frame by means of its face-plate *m*, screwed to the panel B¹. *m'* is a plate, secured to the girt *a* and face-plate *m* by screws. The lower part of the piece M forms the breast for the picker-wheel, made substantially the same as others in this class of shellers. N is the lid or cover of the case. It is curved to conform to the rounded ends of panels B¹, and is hinged at one end, *n*, to the top B² of the case. When closed it is secured by a latch, *n'*; or it may be fastened down by screws. The lid or cover is provided with an angular notch, *o*, corresponding in curvature with the exterior rear edge *o'* of the cob-chute, to allow free egress to the cobs as they pass out of the chute.

The lid N has no connection with the cob-chute; consequently it can be opened at any time without disturbing it; or the chute may be removed without detaching the lid N.

O is the bearing-plate, provided with journal-bearings *p p'* for the shafts of the feeder and picker-wheels, and with the standard *e*, bearing the stud for the pinion D.

If, by any mischance, during the working of the sheller, or in transportation, the piece L should be broken, it may readily be removed and another substituted at slight expense and with but little trouble.

The lid or cover N, being hinged to the case, can be readily opened when necessary to inspect the interior of the sheller—this, too, without disturbing any of the other parts.

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

The pieces M and L, formed as described, and rigidly secured together and to the frame of the machine, and forming, by their connection, a breast for the picker-wheel and a chute for the cobs, substantially as and for the purpose hereinbefore described and set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 10th day of November, 1874.

HENRY L. WHITMAN.

Witnesses:

WILTON C. DONN,
J. W. PILLING.