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No. 14,444.

H. CLARK.

Thrashing Machine.

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Patented March 18, 1856.





Fig:3.

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N. PETERS. Photo-Lithographer. Washington, D. C.

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UNITED STATES PATENT OFFICE.

HIRAM CLARK, OF PRINCETON, MASSACHUSETTS.

THRESHING-MACHINE.

Specification of Letters Patent No. 14,444, dated March 18, 1856.

To all whom it may concern: Be it known that I, HIRAM CLARK, of S, V, and T, the proportion of the motion Princeton, in the county of Worcester and being such that the strokes of the piece H State of Massachusetts, have invented cerstrike sufficiently near to each other to sepa- 55 5 tain new and useful Improvements in rate the grain entirely from the heads passed Threshing-Machines; and I do hereby dethrough. To operate the machine give moclare that the following is a full, clear, and tion to the shaft O and place the straw conexact description of the construction and taining the grain on the apron running in, and it is carried between the rolls and 60 operation of the same, reference being had 10 to the drawings herewith presented and to passed over the piece F receiving the rethe letters of reference marked thereon, in peated strokes of the piece H the action of which by slightly bending the straw or which drawings heads loosens all the grain and shakes it Figure 1 is a side elevation, Fig. 2 is a top out allowing it to fall. The straw being 65 view, Fig. 3 is a transverse section through caught by the other feed rolls is delivered 15 M N, Fig. 4 shows some parts of the same. My improved thresher for which I claim on the other apron, from whence it may be a patent differs from the old forms both in removed by an attendant. If it is such not using a rubbing or tearing stroke, and as it is desirable to keep straight, the other kinds may be allowed to fall at the end of 70 in delivering the straw straight as when put the machine and be removed at leisure. 20 in only giving it a succession of strokes similar to the use of the flail, giving them with The action of the spring G being such as to allow the inequalities of the straw while it a mathematical accuracy on all parts ininsures the action of the slightest quantity. suring the separation of all the grain. A great objection to the use of the old The use of cams or similar mechanical de- 75 vice may be substituted for the cranks and 25 threshers is the breaking or tearing of the other parts of the machine varied as the straw so that it is for most purposes comparatively worthless; this is entirely obvipieces H and F be changed giving motion ated by my improvement by which the straw to the lower one and the spring G applied is preserved almost entire and as straight as to either without departing from my prin- 80 ciples of operation. I do not claim the precise form of any To construct my improved thresher I make a frame A A with the feed rolls B B of the parts nor the use of feed rolls and C C and endless aprons D D. Between the aprons in threshing machines as I am aware two sets of feed rolls fasten the piece F of such have been used, but 85 What I claim as new and desire to secure being composed of a series of elevations and by Letters Patent is— 1. I claim the use of the pieces H and F depressions the latter having openings for separating the grain by an action simithrough to allow the grain to fall, above lar to that of a flail in connection with the 90 which place the piece H of similar construcrolls and aprons or similar device, when constructed and operating in the manner ridges fitting into the hollows in the lower and for the purposes as above set forth and one, this piece H attach to the crosspiece E described. and between them place the spring G so that the piece H will move with E except In witness whereof I have hereunto set 95 45 when it meets resistance to overcome the my hand this fifteenth day of February A.

30 necessary to preserve its quality. 35 which a section is shown at F' Fig. 4 it 40 tion except that it needs no openings, its

- spring G which then yielding allows E to | D. 1856 in the presence of two witnesses. make its regular motion. The piece E is HIRAM CLARK. attached to the slides I I which receive motion from the crank shaft J through the Witnesses: 50 connecting rods K K, the shaft J and the ABRAM H. WILSON, rolls B and C receiving motion from the Adaline L. Clark.

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