C. E. LEEPER.

SORTER.

APPLICATION FILED MAY 11, 1912.

1,091,675.

Patented Mar. 31, 1914.

3 SHEETS—SHEET 1.

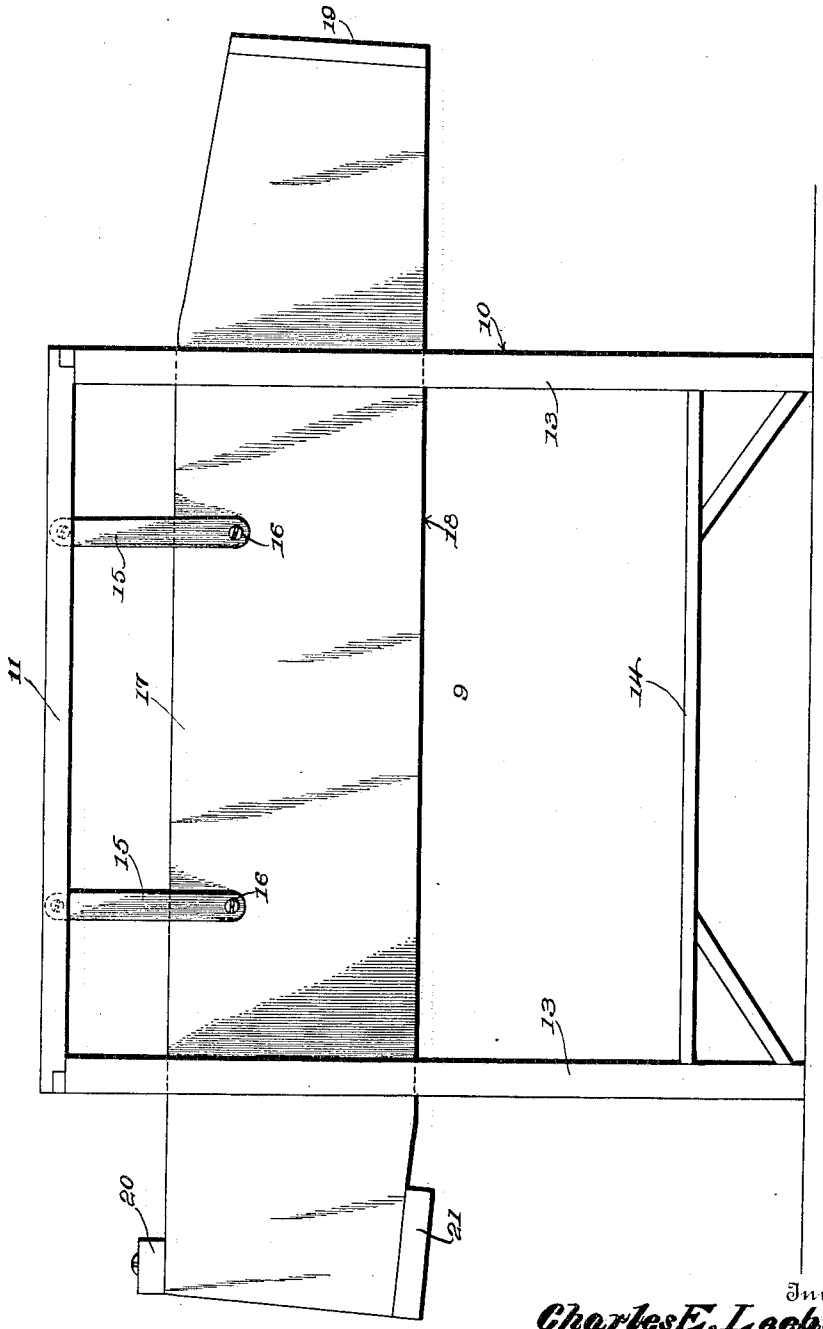


Fig. 1.

Witnesses

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3 SHEETS—SHEET 2.

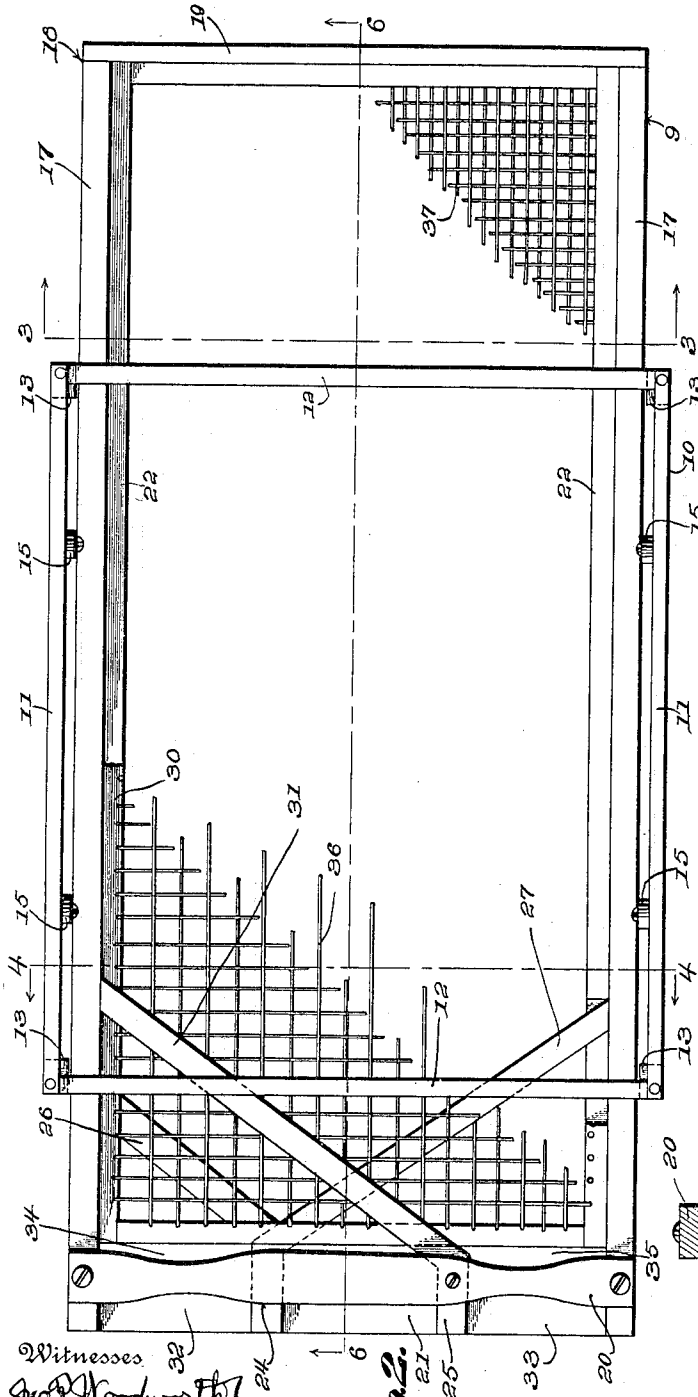


Fig. 2.

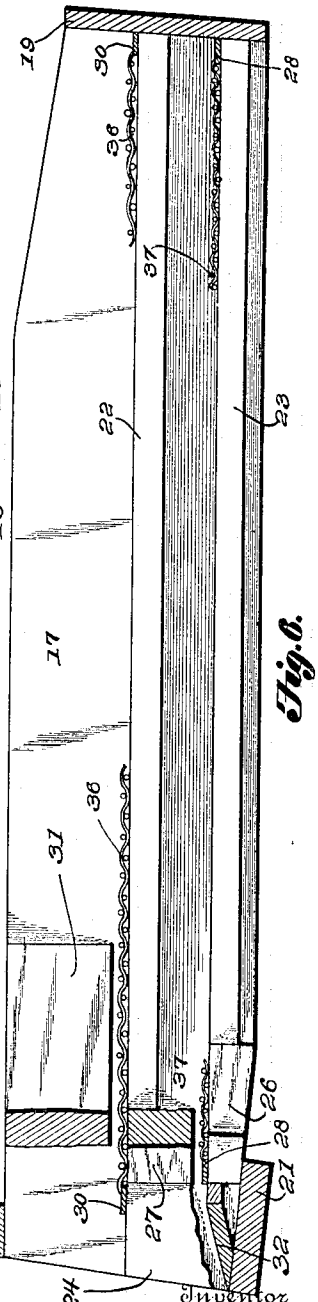


Fig. 6.

Witnesses

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3 SHEETS—SHEET 3.

Fig. 5.

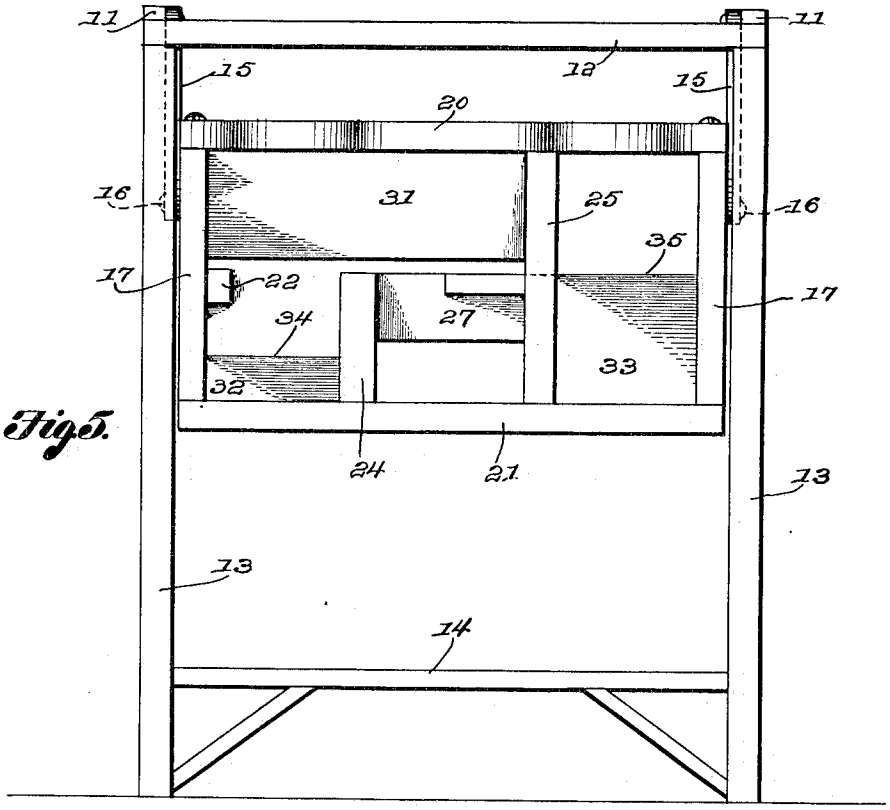


Fig. 3.

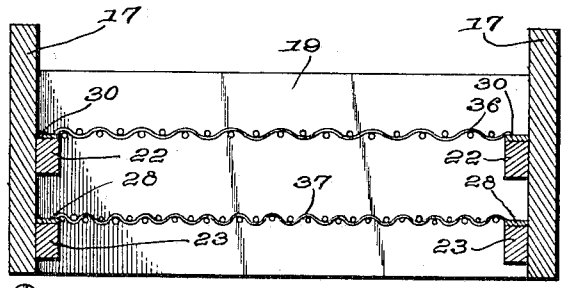
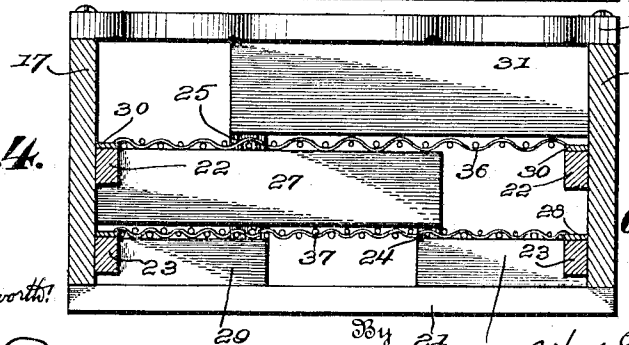


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES E. LEEPER, OF EATON, COLORADO.

SORTER.

1,091,675. Specification of Letters Patent. Patented Mar. 31, 1914.

Application filed May 11, 1912. Serial No. 696,778.

To all whom it may concern:

Be it known that I, CHARLES E. LEEPER, a citizen of the United States, residing at Eaton, in the county of Weld and State of Colorado, have invented certain new and useful Improvements in Sorters, of which the following is a specification.

This invention relates to new and useful improvements in sorters, and more particularly to that class adapted to be used in sorting potatoes.

The object of this invention is the provision of a device of this character which will be comparatively simple and inexpensive to manufacture, reliable and efficient in use, and readily operated.

With the above and other objects in view, this invention resides in the novel features of construction, formations, combinations and arrangements of parts to be hereinafter more fully described, claimed and illustrated in the accompanying drawings in which:—

Figure 1, is a side elevation of my invention; Fig. 2, is a top plan view thereof; Fig. 3, is a transverse sectional view thereof; Fig. 4, is a transverse sectional view taken on the line 4—4 of Fig. 2. Fig. 5, is an end view thereof; Fig. 6, is a longitudinal sectional view thereof.

Referring to the drawings by similar characters of reference throughout the several views, the numeral 9, designates generally my improved sorter which is mounted in a frame 10 comprising opposite side and end bars 11 and 12 supported upon the usual legs 13 and further connected thereto by suitable braces 14. A pair of arms 15 are pivoted to the side bars 11 and are connected as at 16 to the side plates 17 of the sorter frame 18. The rear ends of the plates 17 are connected by an end plate 19, while the free upper edges thereof are connected by a handle bar 20 by the means of which the said sorter frame 18 can be oscillated within the frame 10, by its pivotal connection therewith through the medium of the arms 15. The lower edges of the front terminals of the plates 17 are connected by a bar 21, while secured to the inner sides of each plate 17 is a pair of spaced parallel guide or supporting rails 22 and 23. A pair of uprights 24 and 25 are secured in spaced parallel relation to the bar 21, while the upright 25 is slightly greater in length than the upright 24 and is attached to the handlebar 20. The uprights 24 and 25 are connected to the rails 23 by angular rails 26 and 27 which together with the said rails 23 constitute a support for the lower screen frame 28.

An angular deflector rail 29 extends in parallel relation to the rail 27 from the upright 24 to one of the rails 22 which together with the said rails 22 constitute a support for the upper screen frame 30. The rail 29 rests upon the lower screen frame 28 while resting upon the upper screen frame 30 is an angular deflector rail 31 which extends parallel to the rail 26 and connects the upright 25 to one of the side plates 17. The rails 29 and 31 serve to direct the contents of the upper and lower screen frames 30 and 28 down the inclined chutes 32 and 33 respectively which lead from the platform 34 and 35 attached to the upright and rails 26 and 29.

The frames 28 and 30 are covered with screens 36 and 37 of such sizes that the larger potatoes will be conveyed upon the oscillator of the frame 18 down the chute 32 while the smaller potatoes will be permitted to fall through and drop upon the screen 28 from whence they will be directed down the chute 33. Any suitable receptacles (not shown in the drawings) may be placed at the lower end of the chutes to catch the potatoes.

From the foregoing disclosures taken in connection with the drawings, it will be manifest that a potato sorter is provided for which will fulfil all of the necessary requirements of such a device.

It is to be understood in this connection that various minor changes in the details of construction can be resorted to within the scope of the appended claim, without departing from or sacrificing any of the advantages of the invention.

Having thus fully described this invention, what I claim as new and desire to protect by Letters Patent is:

A sorter such as described, comprising a frame having a series of rails secured to the inner sides thereof, removable screens mounted upon the said rails, a bar connecting the sides of the frame, an operating handle connecting the sides of the frame, an

upright connecting the bar with the handle, an upright connecting the bar with a deflector rail, angular rails connecting the inner rails with the uprights, angular deflector rails connecting the uprights with the sides of the frame, and inclined chutes leading from the deflector rails.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES E. LEEPER.

Witnesses:
JAMES L. KENDEL,
PETER WEASEL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."