J. F. SHEPARD.

GRATING, SIFTING, AND SLICING MACHINE.

No. 103,378. Patented May 24, 1870.

Fig. 1.

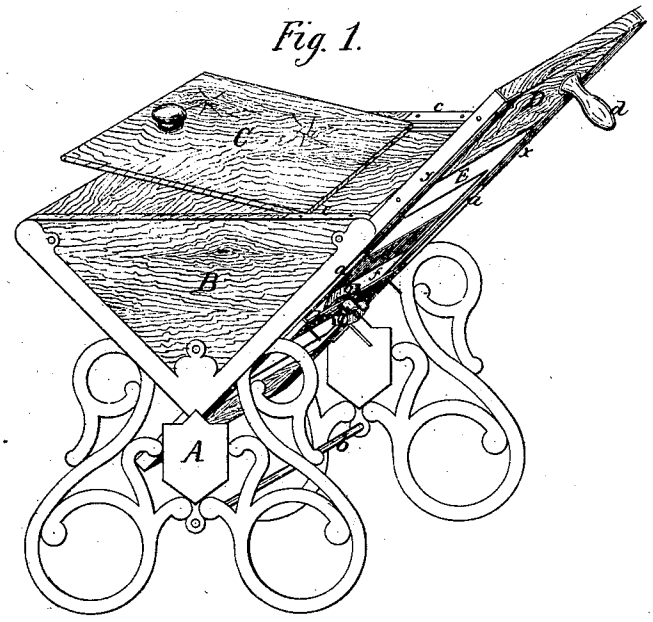


Fig. 2.

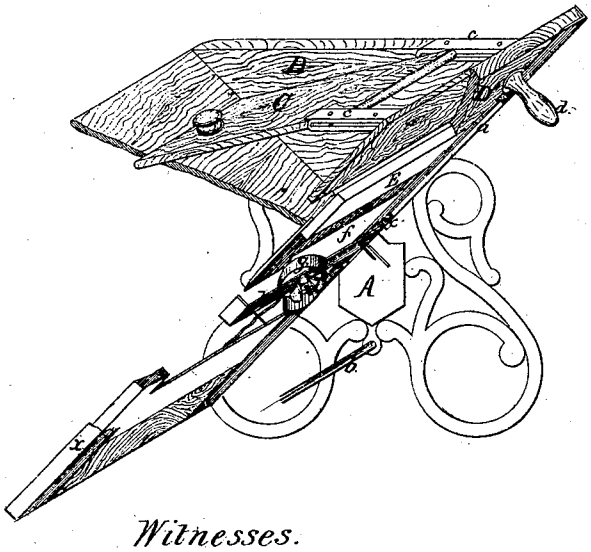


Fig. 3.

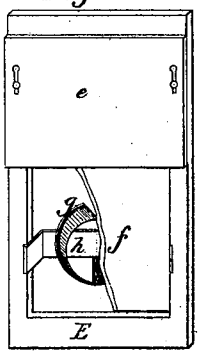


Fig. 4.

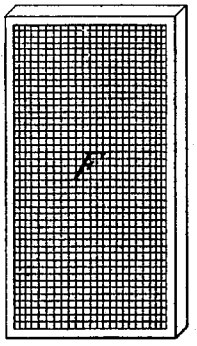
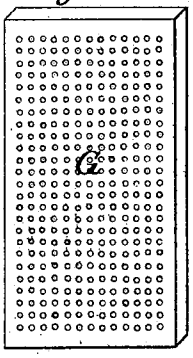


Fig. 5.



Witnesses.

Sarah L. Shepard.

Henry H. Knight.

Inventor.

John F. Shepard

United States Patent Office.

JOHN F. SHEPARD, OF HAMPTON FALLS, NEW HAMPSHIRE.

Letters Patent No. 103,378, *dated May* 24, 1870.

IMPROVED GRATING, SIFTING, AND SLICING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same

I, JOHN F. SHEPARD, of Hampton Falls, in the county of Rockingham and State of Hew Hampshire, have invented a certain Grating, Sifting, and Slicing-Machine, of which the following is a specification.

Nature and Objects of the Invention.

The first part of my invention relates to the combination of a hopper, with cover hung by slotted hinges, and a sliding rack, recessed to receive either a grater, sieve, or slicer, in such a manner that the device may be used for grating, sifting, or slicing, merely by inserting a grater, sieve, or slicer, in the sliding rack, the object of this part of my invention being to produce a convenient household utensil, which shall be adapted to a great variety and range of work.

The second part of my invention relates to the combination of a slicing-knife with a guard-plate, cam-wheel, cross-bar, and screw with thumb-nut, in such a manner that the guard-plate can be elevated or depressed to regulate the thickness of the slices, the object of this part of my invention being to produce a slicer which can be adjusted to cut either thick or thin slices.

Description of the Accompanying Drawings.

Figure 1 is an elevation of a machine embodying my invention.

Figure 2 is a sectional elevation of the same.

Figure 3 is a sectional elevation of the slicer.

Figure 4 is an elevation of the sieve.

Figure 5 is an elevation of the grater.

General Description.

A is the frame of the machine, which frame is made of cast-iron or other suitable material, and is constructed with flanges *a a* upon the inner edges of the arms. It is made firm and secure by a rod, *b*, passing from side to side.

B is the hopper, which is made of wood, and is secured to the frame by screws. It has an opening extending from the bottom about half way up the rear end, to allow the contents to impinge against the grater, sieve, or slicer.

C is the cover, attached to the hopper by the slotted hinges *c c*, which allows the cover to traverse so that the front end of the same is in contact with the front end of the hopper while descending, thereby forcing the contents of the hopper against the grater, sieve, or slicer.

D is the sliding rack, with recessed sides *x x*, for the reception of the grater, sieve, or slicer. It is provided with a handle, *d*, at the top, by which it is operated, and runs in the grooves formed by the flanges *a a* and the rear end of the hopper.

E is the slicer, and consists of the knife *e*, guard-plate *f*, cam-wheel *g*, cross-bar *h*, and screw with thumb-nut *i*, attached to a frame which fits into the recesses *x x* in the sliding rack D.

F is the sieve, and G the grater, which are made in the usual manner, and are attached to frames which fit into the recesses *x x* in the sliding rack.

The machine is operated as follows, for example:

In slicing with the slicer E in the sliding rack D, the vegetables are placed in the hopper B, the cover C is gently forced down with the left hand, while the sliding rack D is moved rapidly up and down by the handle *d* with the right hand. The slices will drop out under the hopper B.

The same directions govern in sifting or grating, merely substituting the sieve F or grater G for the slicer in the sliding rack.

Claim.

I claim as my invention—

The combination and arrangement of the frame A, hopper B, cover C, sliding rack D, with the slicer E, sieve F, and grater G, as described and for the purposes hereinbefore set forth.

JOHN F. SHEPARD.

Witnesses:

SARAH L. SHEPARD,

HENRY H. KNIGHT.