

(No Model.)

A. BROOKS.
COMBINED FLOUR AND MEAL SIFTER.

No. 494,753.

Patented Apr. 4, 1893.

Fig. 1.

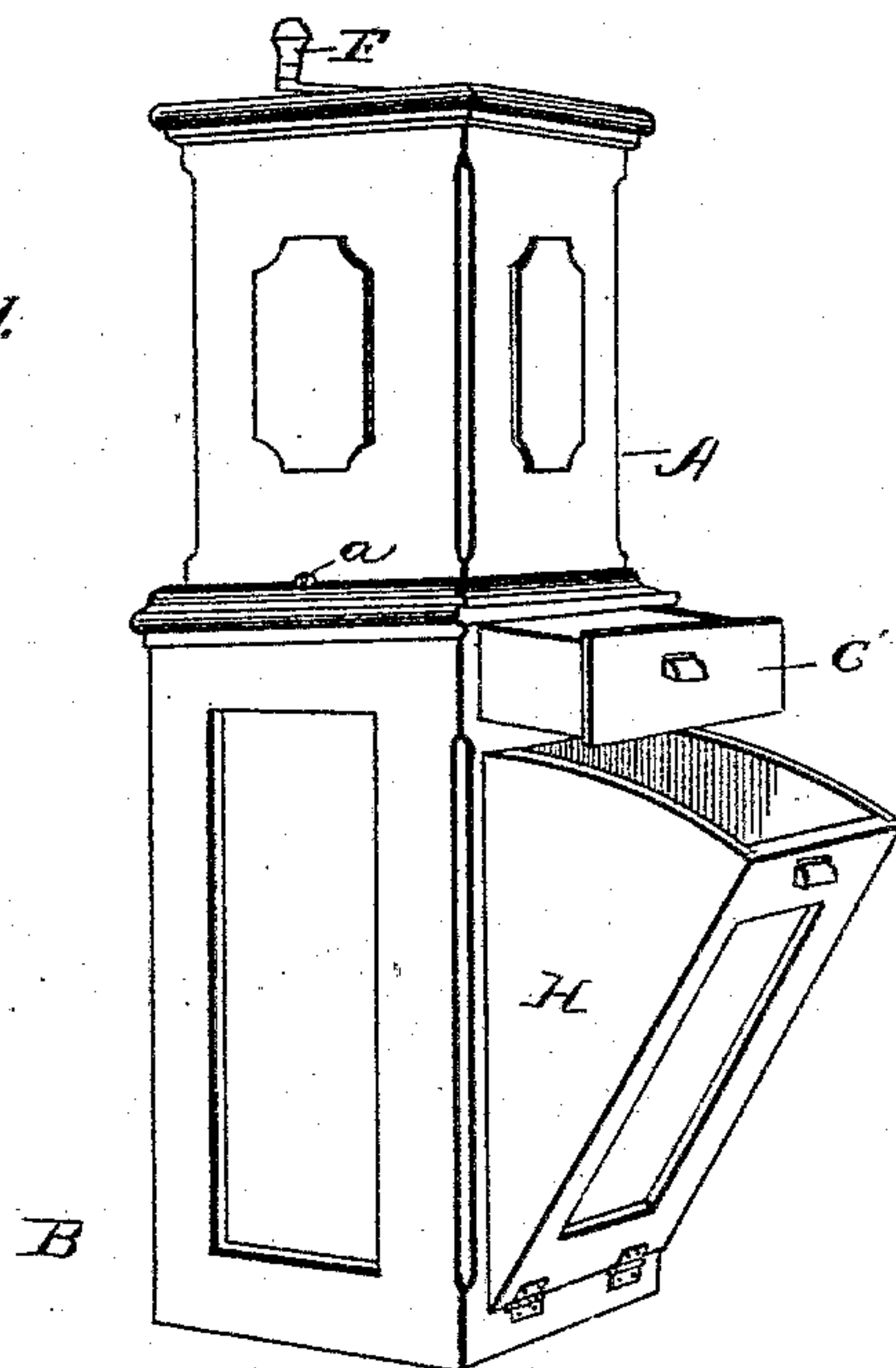
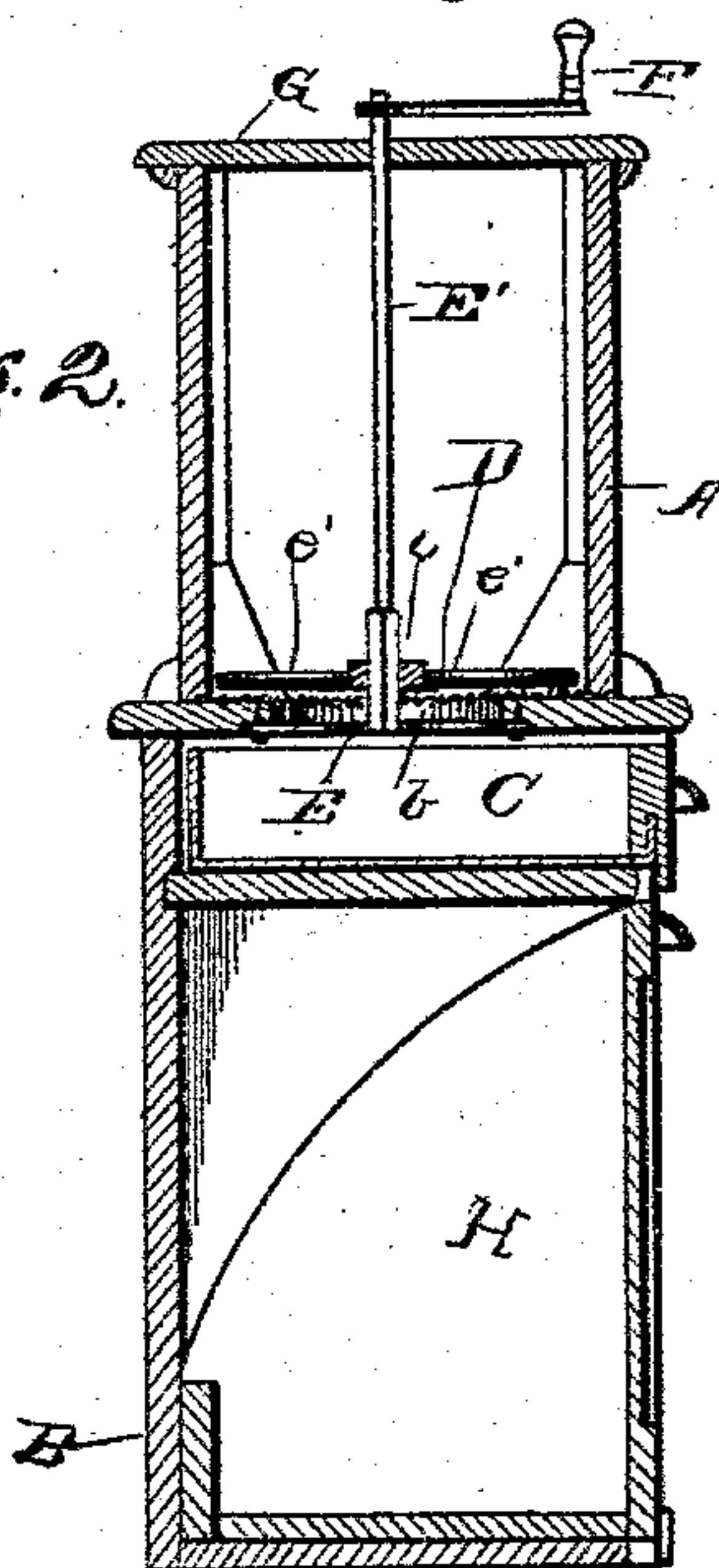


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

AUGUSTUS BROOKS, OF SAYRE, PENNSYLVANIA.

COMBINED FLOUR AND MEAL SIFTER.

SPECIFICATION forming part of Letters Patent No. 494,753, dated April 4, 1893.

Application filed July 15, 1892. Serial No. 440,155. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTUS BROOKS, of Sayre, in the county of Bradford and State of Pennsylvania, have invented certain new and
5 useful Improvements in Cabinet-Sifters; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and
10 to the letters of reference marked thereon.

This invention relates particularly to devices for containing the supply of flour or meal for family or domestic use, and has for its object, to provide a device of this character embodying a sifting mechanism of simple
15 and efficient design, capable of being readily renewed, when worn or destroyed, together with a receptacle for the sifted flour or meal and a bin for an extra supply.

20 The invention consists, in certain novel details of construction and combinations and arrangements of parts all as will be now described and pointed out particularly in the appended claims.

25 Referring to the accompanying drawings: Figure 1 is a perspective view of a cabinet constructed in accordance with my present invention. Fig. 2 is a vertical section through the same.

30 Similar letters of reference in both the figures indicate the same parts.

In carrying this invention into practice, I provide an upper section or hopper A and a lower section or base B, upon which the upper
35 section is supported, together with sifting mechanism and a receptacle for the sifted flour and a bin for containing an extra supply. The upper section consists practically of a simple casing, open at both top and
40 bottom, but adapted to make a close joint with the lower section and be held in place thereon by any suitable removable fastening devices such as screws *a*, while its exterior is embellished by suitable paneling or other ornamentation calculated to make the device attractive in appearance. In the top of the
45 lower section, immediately over the drawer C is an opening *b*, preferably of circular contour over which is stretched a flat section of
50 foraminous material such as a screen D, held in place by tacks if desired, and with its edges clamped between the two sections A and B of

the cabinet. This structure it will be seen, permits of the ready renewal or substitution of screens of different mesh by simply separating the sections and placing a flat piece of
55 the foraminous material of the desired quality over the opening *b*. By clamping the screen between the two sections in this manner, the necessity of employing a special frame in
60 which the screen must be mounted to hold it distended is entirely obviated, the top and bottom sections themselves in effect taking the place of such a frame. Further than this, the device is thereby simplified, the cost of
65 manufacture reduced, and the screen may be repaired or renewed with the greatest ease and convenience.

Bridging the opening *b* below the screen, is a cross piece or support E having a bearing
70 for the lower end of a vertical shaft E' provided with means such as the crank handle F whereby it may be rotated from the exterior of the cabinet. The lower end of this shaft E' is squared or of irregular shape, and
75 upon it, immediately above the screen, is mounted the agitator consisting of a hub *e* mounted loosely upon the shaft so as to rotate therewith, but rest lightly upon the
80 screen, and having a series of curved radial arms *e'* which sweep around in proximity to the screen, agitate the flour or meal and cause its passage through the screen into the drawer or receptacle C'.

A cover G is provided, for the hopper, having a bearing or opening for the passage of
85 the shaft, and the interior of the hopper is formed with the usual corner cleats to prevent the formation of recesses in which the flour or meal would accumulate.
90

Below the drawer and hinged at the lower forward edge is a bin H adapted for the reception of an extra supply, or for the reception of waste accumulating during the sifting operation. The sides of this bin H are segmental in shape with the hinges at the center.
95 Thus the bin may be drawn forward for the removal of its contents with the least possible exertion.

The whole device is of a convenient height
100 to enable a person to grasp the crank handle and sift the desired quantity of flour or meal and without stooping remove the drawer containing the same, and, although, it is obvious

that size has naught to do with the invention, nevertheless in the practical form of the device, it should be of approximately the size stated and finished to form an attractive piece
5 of kitchen furniture.

Having thus described my invention, what I claim as new is—

1. In a flour screening cabinet, the combination with the base B containing the drawer
10 C and having the reduced aperture in the top and the flat section of screen resting on the top of the base section and bridging the aperture therein, of the top section resting on and confining the edges of the screen between
15 the top and bottom sections with removable fastenings for uniting the top and bottom sections, whereby the screen is held distended

without the use of a special frame therefor, and the agitator mounted in the top section to rotate above the screen; substantially as described. 20

2. In a cabinet, such as described, the combination with the hopper and screen, of the vertical shaft secured in proximity to the screen, the agitator consisting of the hub
25 mounted on said shaft so as to rotate therewith but loose and free to move longitudinally of the shaft, of the arms carried by said hub moving in proximity to the screen; substantially as described.

A. BROOKS.

Witnesses:

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