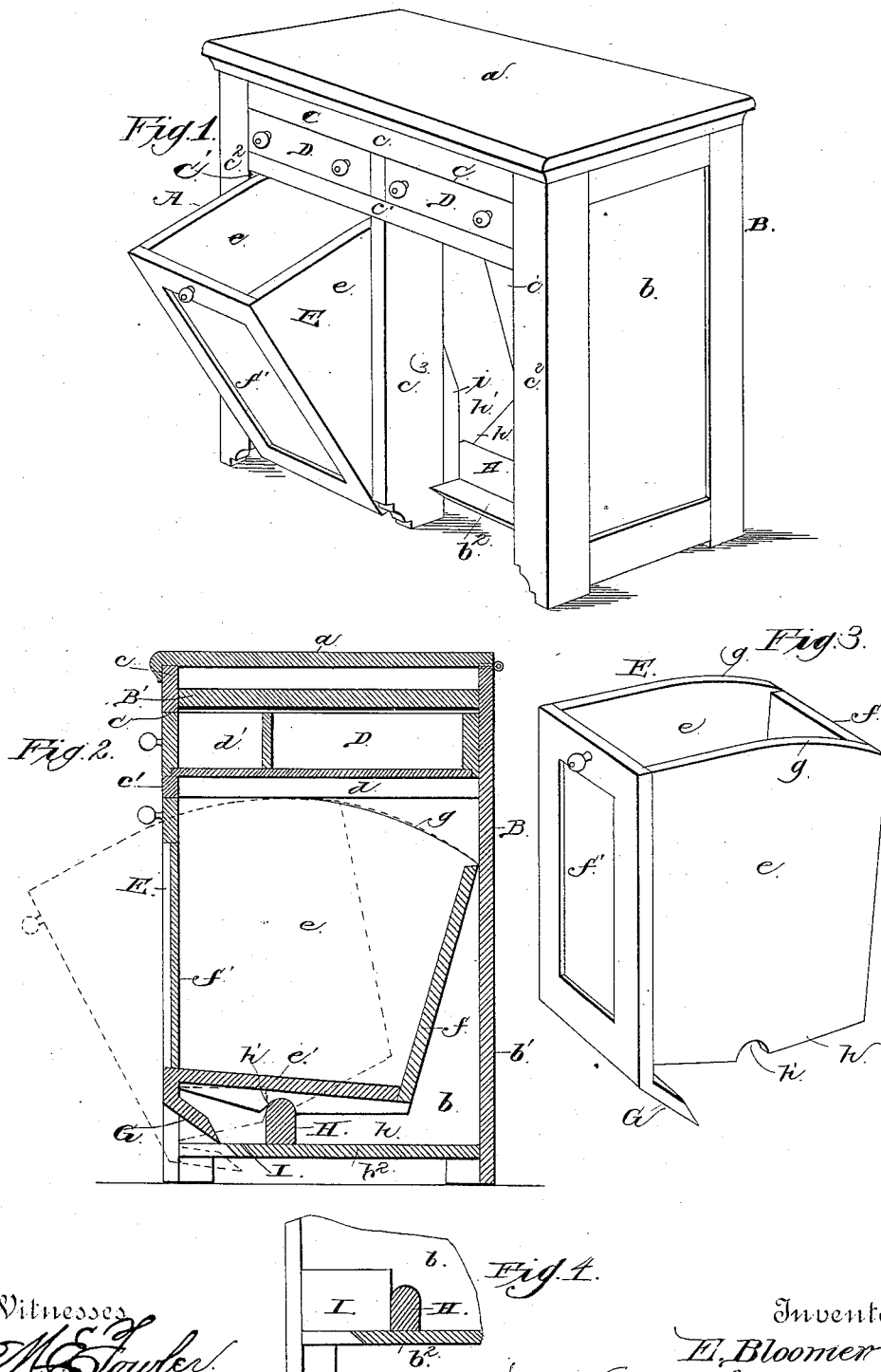


(No Model.)

E. BLOOMER.
COMBINATION FLOUR BOX.

No. 343,694.

Patented June 15, 1886.



Witnesses
M. E. Fowler
H. Beruhoff

Fig. 4.
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UNITED STATES PATENT OFFICE.

EDGAR BLOOMER, OF WILTON, CONNECTICUT.

COMBINATION FLOUR-BOX.

SPECIFICATION forming part of Letters Patent No. 343,694, dated June 15, 1886.

Application filed March 8, 1886. Serial No. 194,490. (No model.)

To all whom it may concern:

Be it known that I, EDGAR BLOOMER, a citizen of the United States, residing at Wilton, in the county of Fairfield and State of Connecticut, have invented a new and useful Improvement in Combination Flour-Boxes, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in flour-bins; and it consists of the peculiar and novel construction and combination of parts, substantially as hereinafter fully set forth, and specifically pointed out in the claims.

The object of my invention is to provide an improved flour-bin with a tilting receptacle, and means whereby mice, rats, and other rodents, and dust or dirt are effectually prevented from entering the same, and with improved means for supporting the receptacle; to provide an improved pastry-board which shall be protected by the cover of the bin, and to provide a bin which shall be cheap and inexpensive of manufacture and simple and strong of construction.

In the accompanying drawings, Figure 1 is a perspective view of my improved bin with one of the receptacles removed. Fig. 2 is a detail view of one of the bins detached from the inclosing-case. Fig. 3 is a vertical transverse sectional view through the case and one of the tilting receptacles. Fig. 4 is a detached detail view of part of my invention.

Referring to the drawings, in which like letters of reference denote corresponding parts in all the figures, A designates my improved flour-bin, which is provided with an inclosing-case, B, that is preferably made rectangular in form and comprises the side walls, *b*, a rear wall, *b'*, and a bottom, *b''*. The front of the bin is provided with the transverse strips *c c'* at and near its upper edge, and the vertical strips *c''* at the sides, and a similar strip, *c'''*, at the middle, thus dividing the front of the bin into four spaces or compartments, C C', the former of which are adapted to receive drawers D, and the latter to have receptacles E removably fitted therein.

The case B has a hinged lid or cover, *a*, and near the upper edges thereof is provided a pastry-board, B', that is fitted between the walls at a short distance below said edges, so as to leave a space intermediate between the

board and the cover when the latter is closed, so that the cover will not come in contact therewith.

The sliding drawers D are supported on cleats *d*, that are properly secured in place in the case B, and one of the drawers is divided into a series of compartments, *d'*, for the reception of spices or the like.

The receptacles E comprise the side walls, *e*, a bottom, *e'*, and the rear and front walls, *f f'*, all of which are rigidly secured together. The side walls are curved transversely at their upper edges, and eccentrically with the support thereof, as at *g*, so that when the bin is tilted forward for a certain distance the edges *g* will come in contact with the lower faces of strips or cleats *d*, that are suitably secured in place, and thus limit the further forward movement of the receptacle; and the lower edges of the said side walls are beveled or curved to extend below the bottom *e'*, as at *h*, and provided with recesses or notches *h'*, that fit over the upper curved face of bearing-bar H. The curvature of the upper face of this bar corresponds to the curvature of the recesses *h*, so that the receptacle is very firmly and securely supported in place, while at the same time it is free to turn on the bar to tilt the receptacle so that access can be had thereto. The front and rear walls of the receptacle are set at an angle to each other, and the recessed seats *h'* are formed in the side walls at points a little in front of the vertical axis of said receptacle, so that it is eccentrically supported or pivotally mounted on the bearing-bar H. The object of thus eccentrically supporting the receptacle is to cause the heavier part of the contents of the receptacle to lie to one side of the vertical axis of the receptacle, whereby it is prevented from accidentally tipping forward, and but little force or exertion is required to move or push it back into the case when it has been tilted forward.

The front portion of the bottom of the case terminates at a point some distance in rear of the front strips, *c'*, and it is provided at its sides with guard-blocks I, that are suitably secured in place, and the middle vertical strip, *c''*, extends to the front edge of the bottom, and has a strip, *i*, that lies in the plane of the rear edges of the guard-blocks. The bearing-bar H is arranged transversely across the receptacle

and abuts against the rear edge of the blocks I and strip, and is permanently secured to the bottom of the case at a short distance in rear of its free edge. These guard-blocks and the bearing-bar prevent the entrance of rats and mice to the case, and to obviate the danger of them gnawing or cutting their way through the same they may be lined with metal, &c.

G designates an inclined shield that is secured upon the lower edge of the front wall of the receptacle, and which conceals the bottom view, the lower free edge of the shield being inclined and working against a similar inclined edge of the bottom of the case to permit the free movement of the receptacle.

The receptacles and drawers are provided with suitable handles for their convenient operation.

The operation of my invention will be readily understood from the foregoing description, taken in connection with the drawings.

When the receptacle is tilted back in its closed position, the front wall thereof lies flush with or a little in rear of the outer faces of the front of the case B, so as to present a neat and attractive appearance, and the inclined shield is set at such an angle to the receptacle that when it is tilted forward the shield moves beneath the front edge of the bottom, the edges of the shield and bottom fitting close together to exclude dirt, mice, &c.

When it is desired to remove the receptacle from the bin, it is tilted forward until it assumes the position shown in dotted lines in Fig. 2, so that the edges *g* will come in contact with the strips *d*, and the inclined strip G will

clear the beveled front edge of the bottom *b*², and the lower end of the receptacle is then forced inwardly and elevated slightly from its bearing-bar, so that it can be shifted to change the relative point of contact between the notches *h*' and this curved edge of the bar H, thus throwing the upper end of the receptacle forward and beyond the bin, so that it can then be easily removed therefrom.

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

1. In a bin, the combination of a case, a transverse bearing-rail, H, secured to the bottom thereof and near its front edge, the vertical guard-blocks I, secured to the bottom and arranged at the sides of the case, and having their ends in contact with the case and the ends of the rail, and a tilting receptacle journaled on the rail, substantially as described, for the purpose set forth.

2. In a bin, the combination of a case having the bottom *b*², provided with a beveled edge, a bearing-rail, H, a tilting receptacle journaled on the rail, and an inclined strip, G, carried by the front lower edge of the receptacle, and having its rear edge inclined to correspond to the inclination to the bottom *b*², as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

EDGAR BLOOMER.

Witnesses:

FREDERIC H. BEDIENT,
HENRY E. CHICHESTER.