(No Model.) 2 Sheets—Sheet 1.

M. S. SAGER.

FLOUR BIN AND SIFTER.

No. 499,252. Patented June 13, 1893.

Fig. 1.

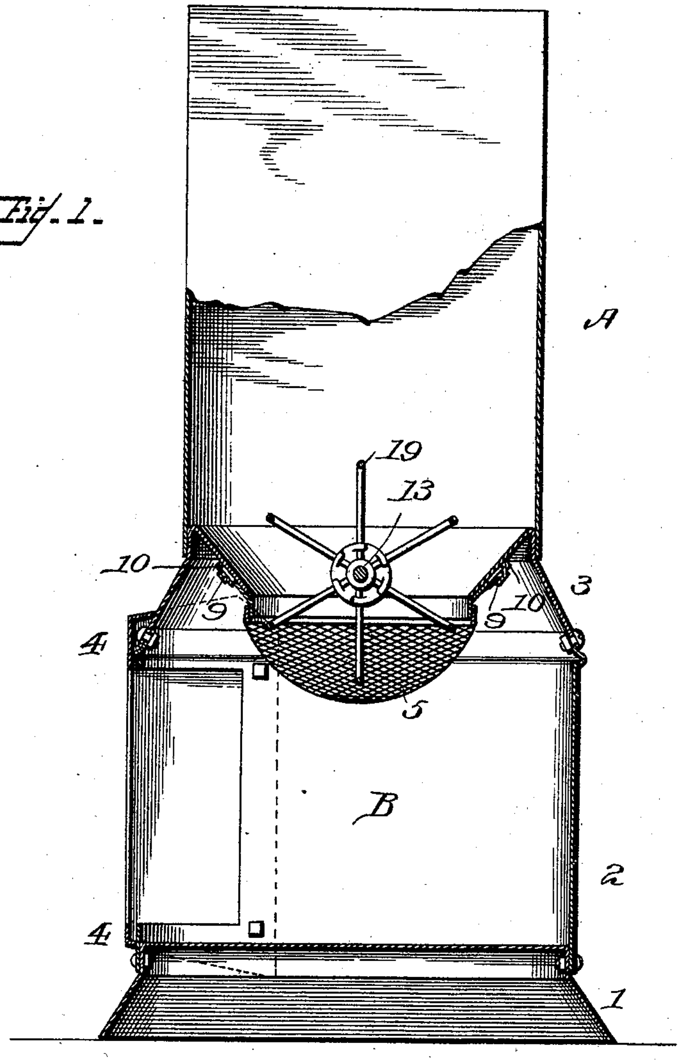
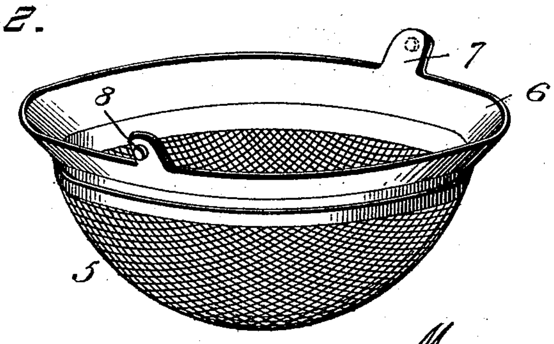


Fig. 2.



Witnesses

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(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.

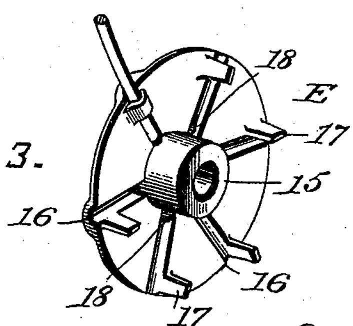
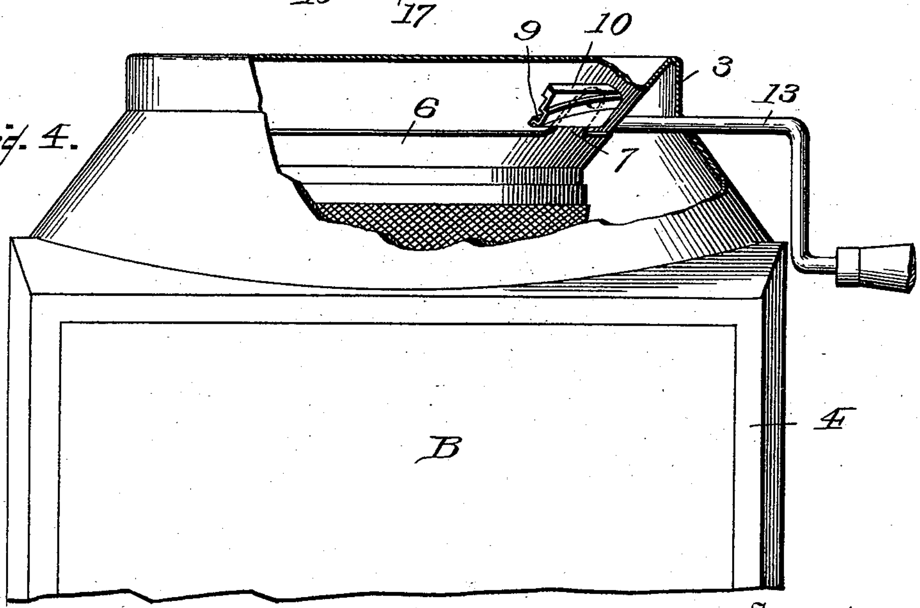


Fig. 4.



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UNITED STATES PATENT OFFICE.

MARCUS S. SAGER, OF WASHINGTON COURT-HOUSE, OHIO.

FLOUR BIN AND SIFTER.

SPECIFICATION forming part of Letters Patent No. 499,252, dated June 13, 1893.

Application filed August 3, 1892. Serial No. 442,022. (No model.)

To all whom it may concern:

Be it known that I, MARCUS S. SAGER, a citizen of the United States, residing at Washington Court-House, in the county of Fayette and State of Ohio, have invented certain new and useful Improvements in Flour Bins and Sifters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention, relating to flour bins and sifters, has for its object to improve them in a number of particulars so that their several parts shall be easily assembled and the apparatus be more durable in use, and more convenient and economical in transportation.

The improvements consist in the construction of parts hereinafter described and particularly pointed out in the claims.

In the accompanying drawings—Figure 1. is a vertical sectional view of a bin embodying my improvements. Fig. 2 is a detailed view illustrating the detachable sieve. Fig. 3 is a perspective view of my improved hub for the agitator; and Fig. 4 is a front view of the base, the upper part being broken out to illustrate the sifter and agitator.

The letter A. designates the bin.

B designates the base, which is composed of the bottom plate 1, chamber 2, a downwardly projecting flared top ring 3, and front piece 4, arranged together and united by bolts and nuts, in substantially the manner shown. The under side of the top ring 3 is provided with seats 10 having downwardly inclined covered grooves 9 open at the lower ends. The sieve 5, is soldered to a flange on a flaring ring 6, having lugs 7 with pins 8, constructed to enter the open lower ends of the grooves 9. When these pins 8 are turned screw-like into the inclined grooves in the seats, the tendency is to draw the ring 6 firmly against the part 3 and hold the sieve in place.

The hub E for the agitator consists of a disk made with a centrally bored projection 15, radial grooves 16, clasps 17 and holes 18.

To construct the agitator the ends of the wires 19, constituting the body of the same, are bent so that their ends will project into the holes 18 and lie in the radial grooves 16. When the wires have been fitted to their places, the clasps 17 are bent down upon them and are thereby held in place. Solder may be added to strengthen the parts at their points of connection, but the clasps will usually be found to suffice.

In operation, my combined bin and sifter will be found convenient, durable and reliable, and by inclosing the locking grooves 9 the rising flour-dust will be prevented from clogging the pins 8.

I do not limit myself to the particular form and construction of the parts shown, as they may be varied without departing from the scope of my claims.

What I claim, and desire to secure by Letters Patent, is—

1. In a flour bin and sifter, a bin provided at its top with a downwardly projecting and downwardly tapering mouth, seats 10 on the outside of and on the tapering surface of the mouth having inclined covered grooves 9 open at their lower ends, a sieve having a flared ring 6 constructed to fit the lower tapering end of the mouth, and lugs 7 on said ring provided with pins 8 constructed to pass through the open ends of and to engage the grooves, substantially as shown and described.

2. A hub for an agitator of the kind described, consisting of a disk having radial grooves 16, and clasps or lugs 17 adapted to be turned down over the wires, substantially as shown.

3. A hub for an agitator of the kind described, consisting of a disk having radial grooves 16, clasps or lugs 17 to hold the wires in the grooves, and holes 18 communicating with and at an angle to the grooves, substantially as shown.

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

MARCUS S. SAGER.

Witnesses:
GEO. M. FINCKEL,
S. S. BLOOM.