

No. 754,821.

PATENTED MAR. 15, 1904.

C. A. SHULTZ.  
BOLTING-SIEVE CLEANER.  
APPLICATION FILED JULY 17, 1903.

NO MODEL.

Fig 1

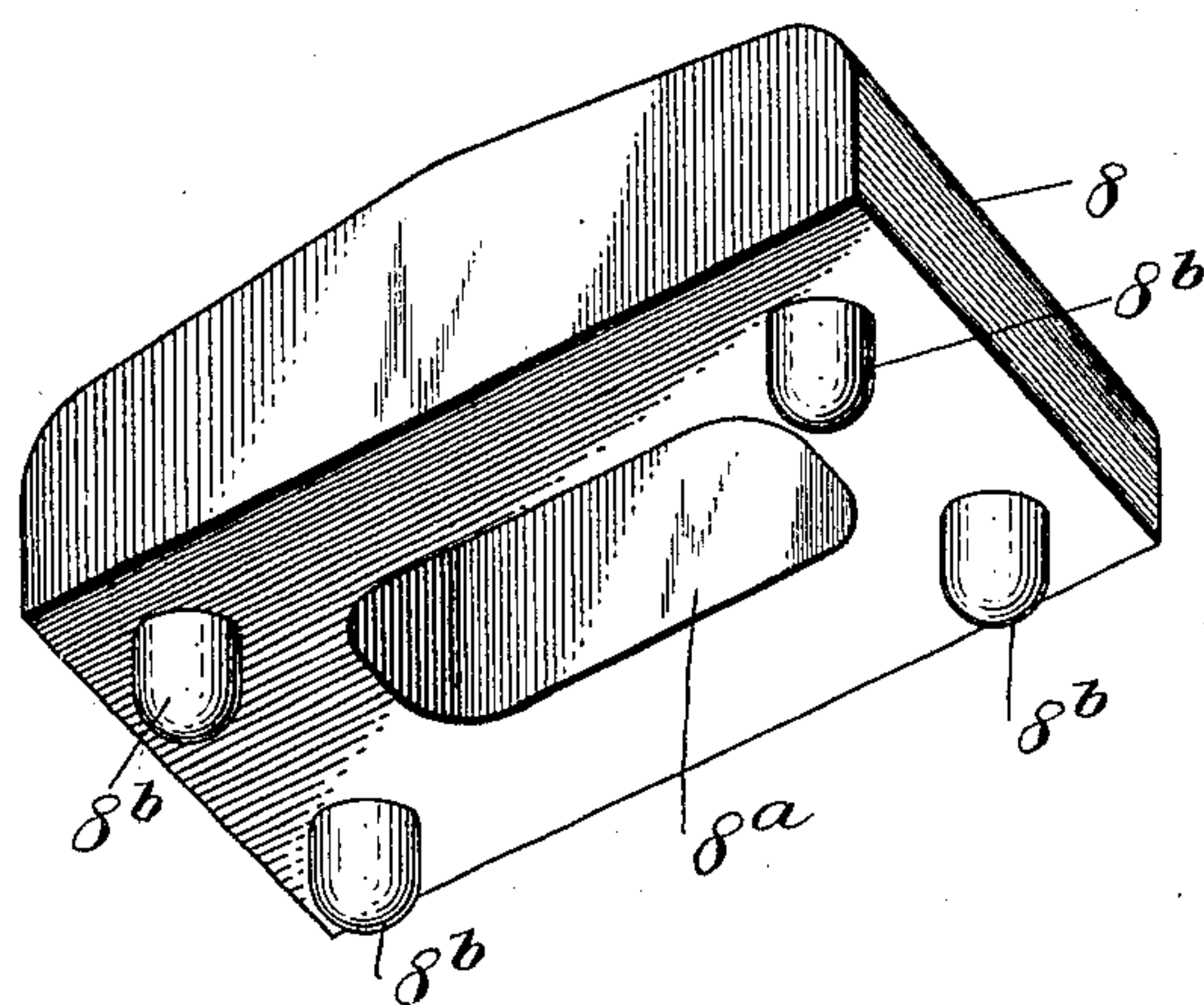
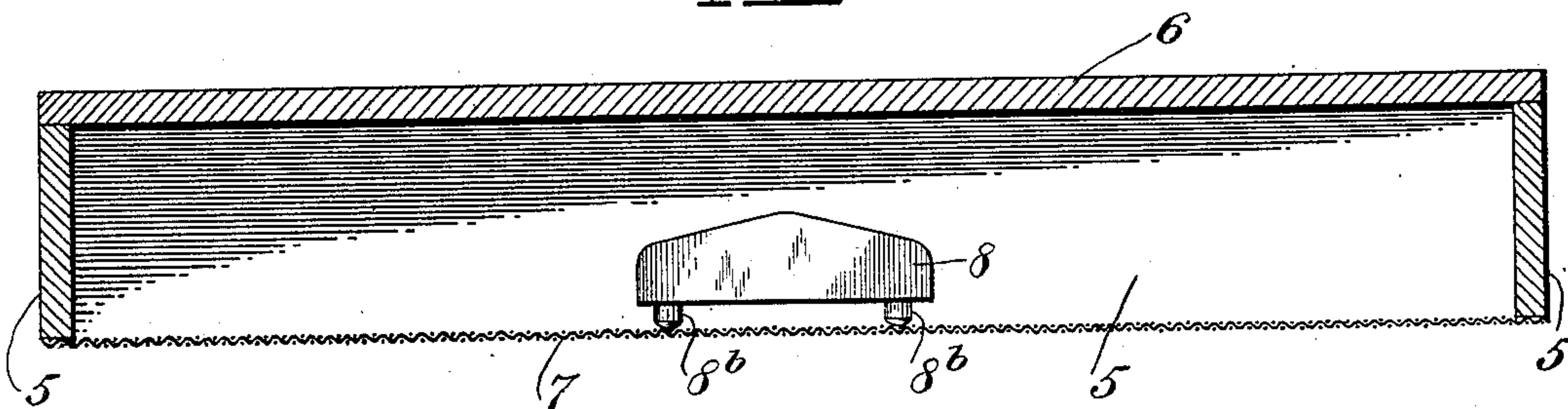


Fig 2



WITNESSES:

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## UNITED STATES PATENT OFFICE.

CHARLES ALBERT SHULTZ, OF PORTLAND, OREGON.

## BOLTING-SIEVE CLEANER.

SPECIFICATION forming part of Letters Patent No. 754,821, dated March 15, 1904.

Application filed July 17, 1903. Serial No. 165,961. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES ALBERT SHULTZ, a citizen of the United States, and a resident of Portland, in the county of Multnomah and State of Oregon, have invented a new and Improved Bolting-Sieve Cleaner, of which the following is a full, clear, and exact description.

This invention relates to means for keeping open the interstices in the fibrous coverings of sieves employed in rotary or other flour sifting or bolting machines by preventing clogging accumulations that interfere with the proper action of the sieves, and has for its object to provide a novel simple traveler-block of peculiar form adapted to be moved freely in all directions over the surface of bolting-cloth by the ordinary jar of the working machine, and thus prevent the reticulations of the fabric from becoming clogged and rendered defective in service.

The invention consists in the novel construction and combination of parts, as is hereinafter described, and defined in the appended claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both figures.

Figure 1 is a perspective view of the improved sieve-cleaning device, and Fig. 2 is a side view of the improved sieve-cleaner applied.

The improved sieve-cleaner may be applied to sieves of modern flour-sifting machines that are disposed and operated in a tier occupying parallel horizontal planes or may be applied to a cylindrical flour-bolter, if desired. A representation of the device applied for cleaning a horizontally-disposed sieve is given in Fig. 2, showing the relative position of the improved sieve-cleaner when engaged therewith.

The sieve-frame may be rectangular in contour or have any other available form adapted to coact with other details of any preferred style of sifting-machine. As shown, it is formed with an angular side wall 5, a cover 6, and a sieve 7, of any suitable fibrous fabric, such as silk bolting-cloth, woven specially for its service as a sieve-bottom and having proper mesh to suit the grade of flour to be sifted, it being properly stretched and secured on the lower edge of the frame, as represented in

Fig. 2. The improved sieve-cleaner comprises a block 8, of suitable material, that is shown as having an oblong rectangular form and a central orifice 8<sup>a</sup> therein. This shape may be varied from somewhat; but as good results are afforded by the form shown this is preferred.

Upon the lower surface of the block 8 a plurality of short legs 8<sup>b</sup> are formed, that afford support to the body of the block, the lower ends of the legs that seat upon the bolting-cloth sieve 7 being convexly rounded, so that their area of contact with the cloth, as well as frictional resistance to the travel of the block upon the cloth when placed within the sieve-frame, will be reduced to a minimum.

The weight of the block 8 is such that it will be prevented from leaving the cloth, thus insuring the seated engagement of the legs 8<sup>b</sup> with the cloth 7, while the sieve is agitated for effecting a sifting operation.

Assuming that flour to be sifted is introduced in the usual way within the frame of the sieve and the latter is agitated to pass the flour down through the interstices of the cloth 7, the block 8, by the jarring motion given to the sieve-frame, will be caused to travel continuously over the sieve-cloth in every direction, preventing the formation of lumps, and by its contact with the cloth on the upper side of the latter will aid in working the flour down through the meshes of the cloth. Furthermore, as the block 8, by means of its legs 8<sup>b</sup>, is prevented from having any considerable degree of frictional contact with the bolting-cloth 7 the latter is prevented from injurious wear, such as it is subjected to when brushes are employed to keep the cloth clean.

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

A bolting-sieve cleaner, consisting of a block, and a plurality of short legs on a side of the block, having convexly-rounded free ends, that seat on the stretched sieve-cloth and adapt the block to move over the sieve-cloth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES ALBERT SHULTZ.

Witnesses:

CURTIS HOLCOMB,  
R. E. MENESEE.