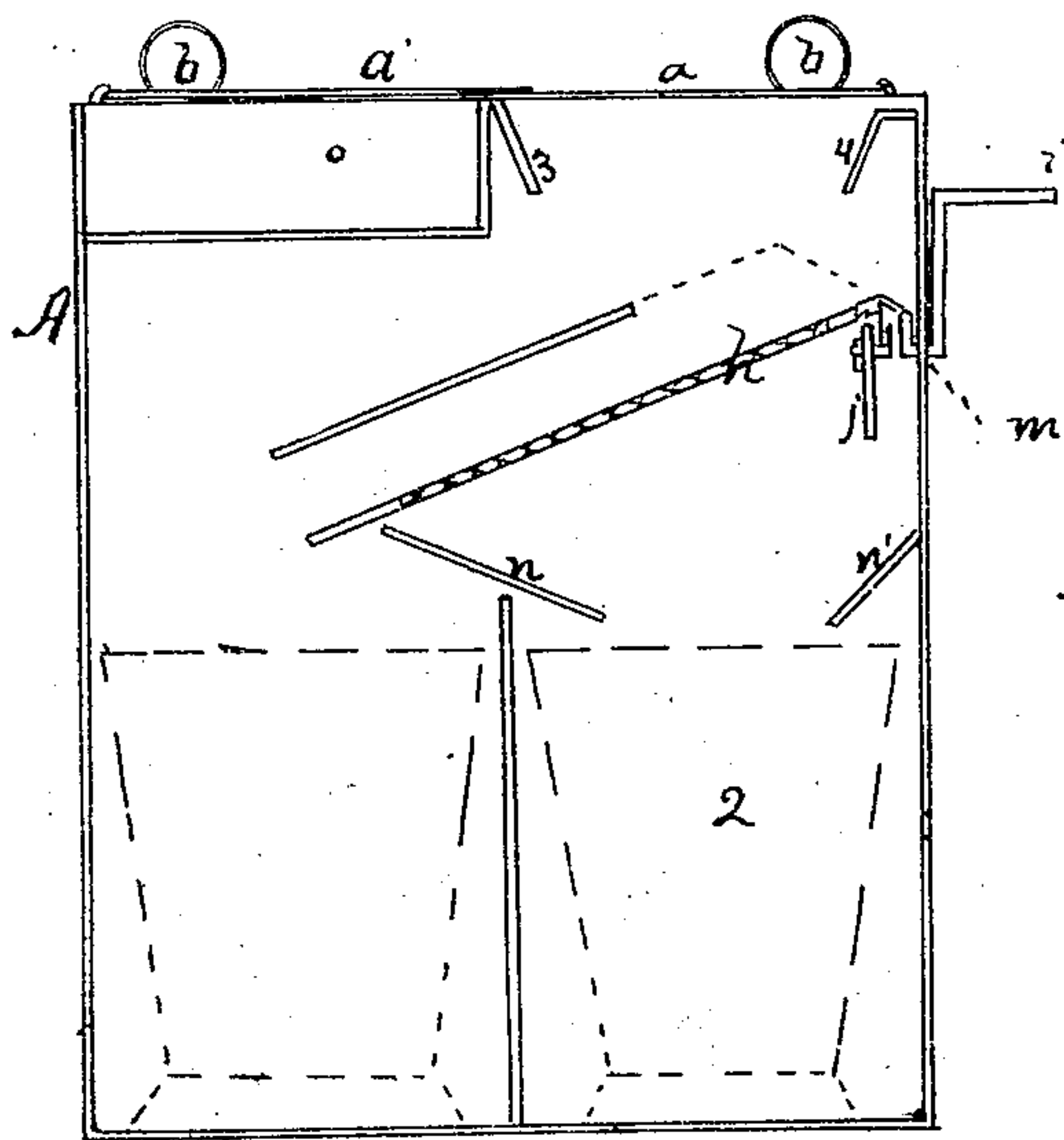
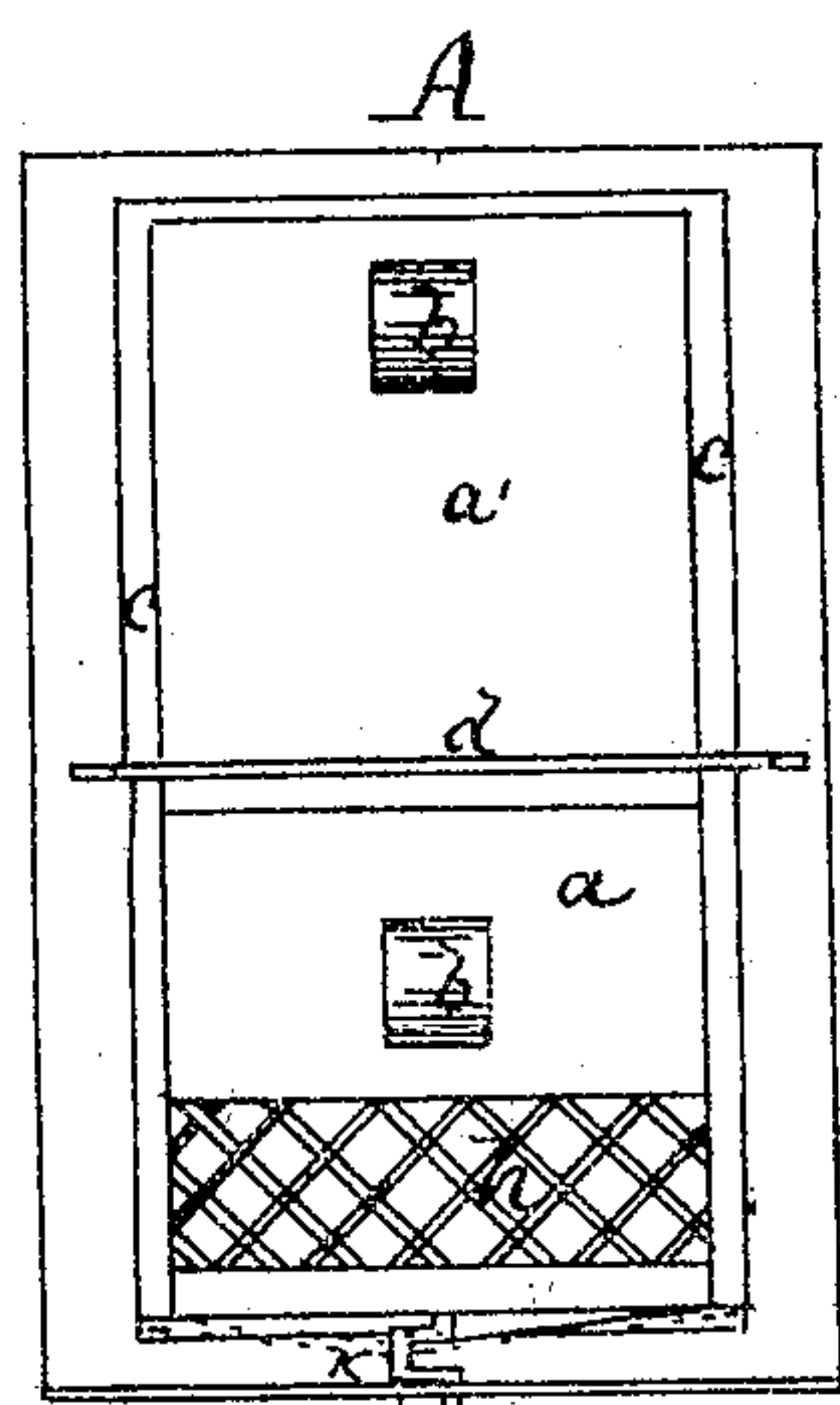
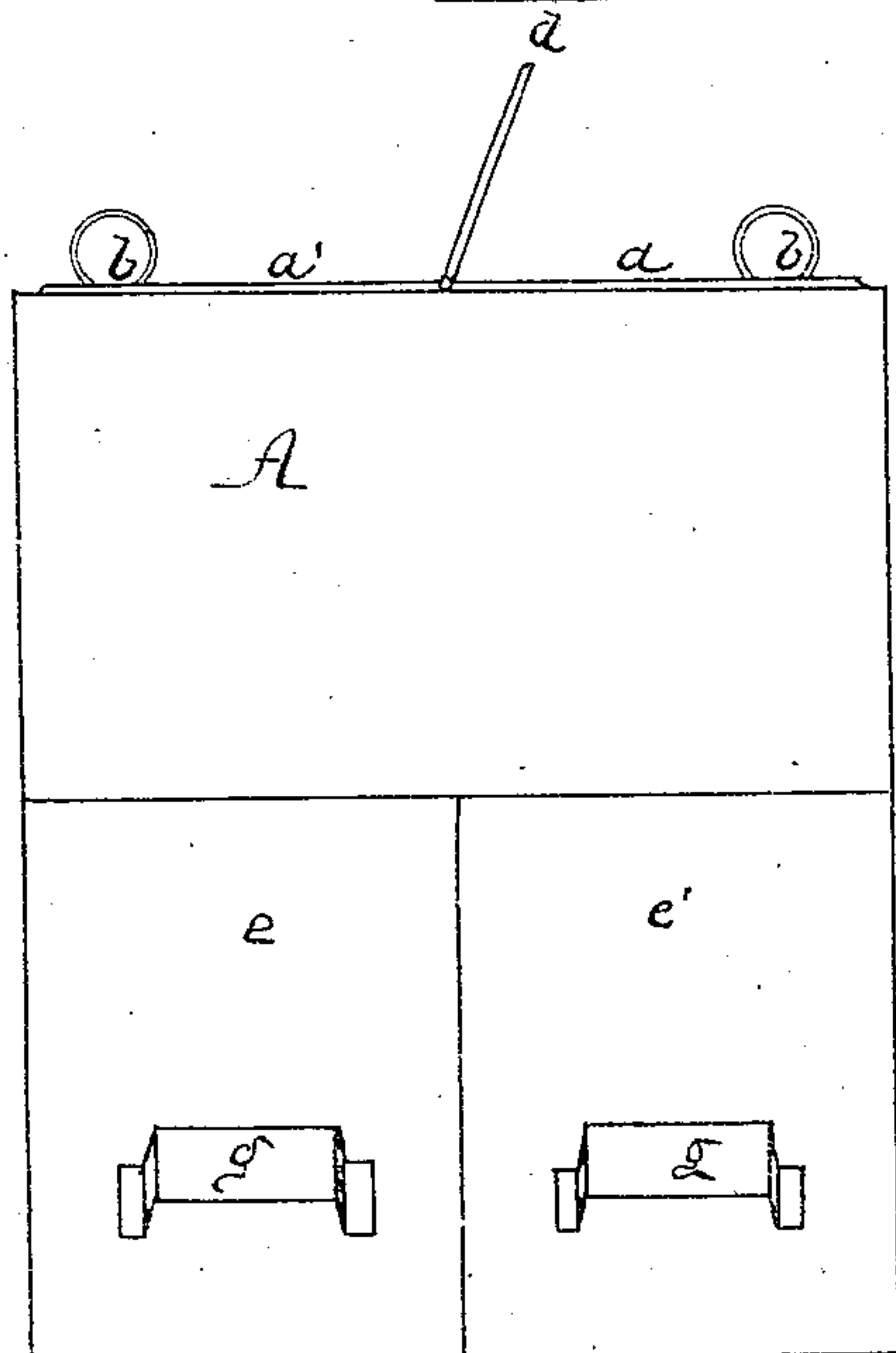


*J Morrison*  
*Coal Sifter*  
*No. 75043* *Patented Mar. 3. 1868*



*Fig. 3.*



WITNESS

*Henry C Houston.*  
*Edwin S Drake.*

*Fig. 1* INVENTOR *J Morrison*  
*by his atty Wm W. Clifford* *Fig. 2.*

# United States Patent Office.

DUNCAN MORRISON, OF PORTLAND, MAINE.

Letters Patent No. 75,043, dated March 3, 1868.

## IMPROVED COAL-SIFTER.

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

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, DUNCAN MORRISON, of Portland, in the county of Cumberland, and State of Maine, have invented a new and useful Improved Coal-Sifter; and I hereby declare the following to be a full, clear, and exact description thereof, which will enable others to make and use my invention, reference being had to the accompanying drawings forming part of this specification, in which—

Figure 1 is a side view of my invention.

Figure 2, a top plan of the same.

Figure 3, a side sectional elevation of the same.

My invention has in view the production of a convenient combination of devices for sifting coal, and for removing the useful and waste parts thereof, when thus separated. It consists of a rectangular box, having a sifter, the means of operating the same, and two hods or receptacles, the one to receive the useful and the other the waste portion of the article sifted, all constructed, arranged, and operating as hereinafter more particularly described.

A shows the rectangular box. The box has two sliding covers on the top *a a'*. These covers have handles *b b*, and slide in a channel formed by the overlapping piece *c*. *d* is a bail, by which the whole may be raised and carried. *e e'* are the outer sides of the two hods or receptacles, and close the two spaces in one side of the rectangular box, and both sides of the partition *f*, fig. 3. They thus form a portion of one side of the box, which side is represented in fig. 1. *g g'* show handles to these hods by which they may be drawn out. When pushed in, they tightly close the side of the box A. The hods are shown at 1-2, fig. 3, in the section. Immediately over the hod 2 is the sifter *h*. The sifter is vibrated by means of the crank *i* on the outside of the box. The shaft of the crank passes through the wall of the box, the other end thereof passing through the piece *j* secured to the sides of the box. The shaft has another crank, *m*. To this crank is attached the wire, *k*, which is also attached to the two sides of the sifter at the upper end. The sifter is inclined, as shown in fig. 3, the lower end resting upon the piece *n*. The hod 1 is intended to receive the sifted coal. *n n'* represent two sides of a device to direct the ashes into the hod 2, the two other sides not being shown in the section. 3-4 represent parts of a similar device to direct the unsifted coal and ashes when first poured into the sifter. The two covers *a a'* slide one under the other. *o* shows a compartment for the reception of any articles commonly employed about a stove, such as a brush, &c. When the two hods 1-2 are shoved into the box, in their appropriate places, and the covers *a a'* are closed, the box is sufficiently tight to prevent the escape of dust.

The operation of the device is as follows: Open the cover *a* and pour in upon the sifter *h* the mixed coal and ashes; turn the crank *i*, and the sifter, being thereby agitated, as before described, the ashes will fall through into the hod 2, while the particles of coal sliding along the inclined sifter will fall from the end thereof into the hod 1. The hods may then be withdrawn by their handles *g g'*, and the contents thereof emptied from the same.

I do not claim the combination of a coal-hod and sifter; neither do I claim any of the separate parts in the device above described. I do not claim tightening the joints between the coal and ash-receptacles, as shown in the patent of William Jones, October 14, 1862, No. 33,659. This invention is further different from mine in the manner and means of operating the same.

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

The arrangement of the several devices hereinbefore described, in the manner set forth, and for the purposes specified.

DUNCAN MORRISON.

Witnesses:

W. H. CLIFFORD,  
HENRY C. HOUSTON.