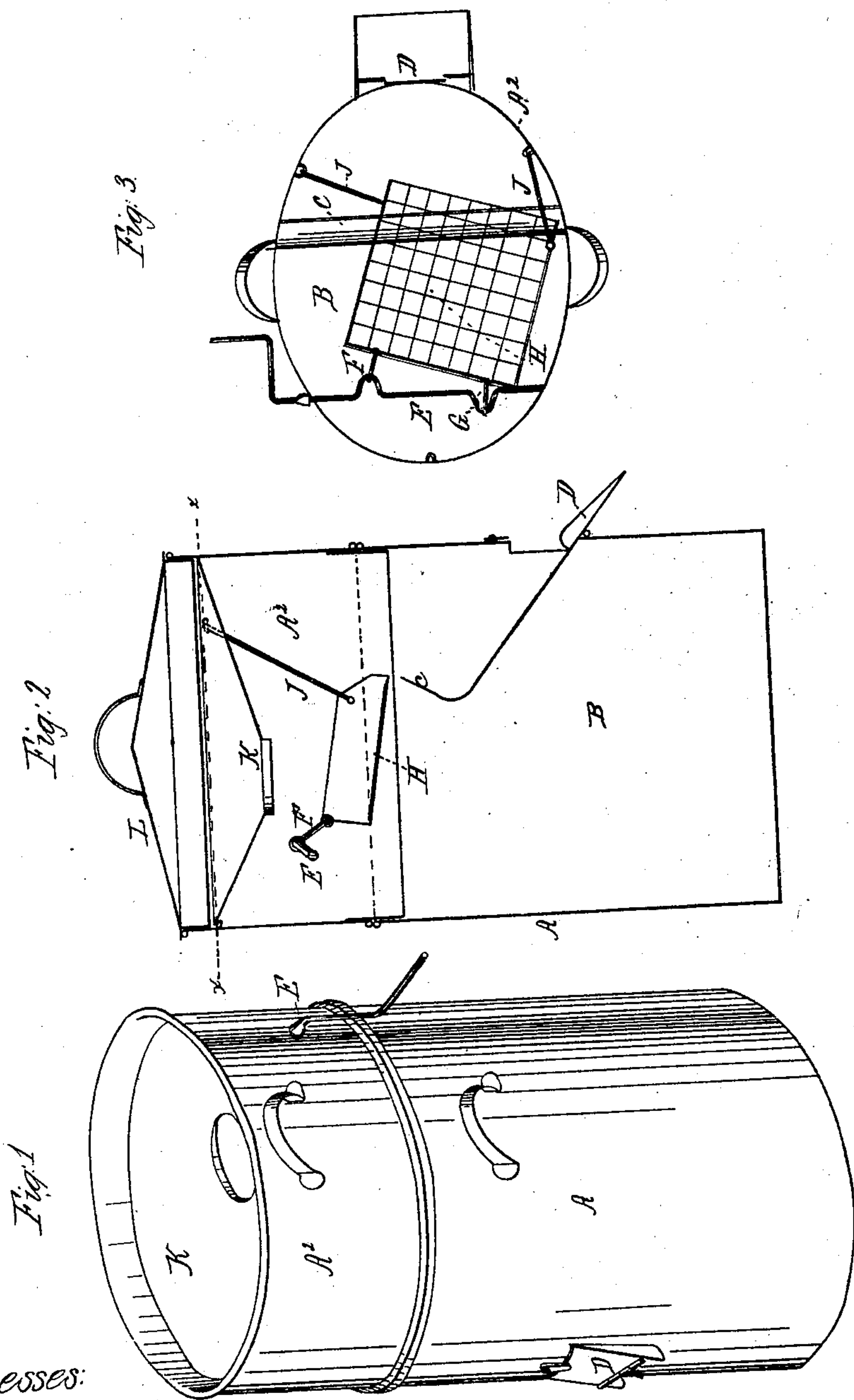


No. 14,505.

PATENTED MAR. 25, 1856.

C. JONES.  
ASH SIFTER.



Witnesses:

*J. M. Mulvaney*  
*Charles L. Bennett*

*Inventor:*  
*Charles Jones*

# UNITED STATES PATENT OFFICE.

CHARLES JONES, OF BROOKLYN, NEW YORK.

## ASH-SIFTER.

Specification of Letters Patent No. 14,505, dated March 25, 1856.

*To all whom it may concern:*

Be it known that I, CHARLES JONES, of Brooklyn, Kings county, State of New York, have invented certain new and useful Improvements in Machinery for Sifting Ashes and for other Purposes; and I do hereby declare the following to be a full description of the same.

The nature of my invention consists in the arrangement and adjustment of the sifter, within any suitable box or barrel, in such a way as to cause it to be agitated obliquely from side to side, and at the same time lifted at one of its back corners so as to give an oblique alternating shake to the cinders to discharge the ashes therefrom, which fall into a compartment of the box for that purpose, while the cinders are discharged from the end of the sifter upon a trough to be collected in any suitable box or basket for that purpose. But to describe my invention more particularly I will refer to the accompanying drawings forming a part of this schedule the same letters wherever they occur referring to like parts.

Figure 1, is a perspective view of the ash sifter and box. Fig. 2 is a vertical cut section of the same. Fig. 3, is a plan view of the sifter through the line  $x, x$ , Fig. 2, after the hopper is removed.

Letters A, is a representation of the sifter box. This box is, for convenience made in sections. In the lower portion of it is the chamber B, for gathering the ashes, and across the upper edge of it is a partition wall C, which forms the bed of the inclined trough D, upon which the cinders fall from the sifter.

Letter A<sup>2</sup>, is an upper section of the sifter box, which is made to fit upon the upper edges of the lower half of the box. Transversely of this upper portion of the sifter box is a double acting crank shaft E. These cranks are opposite to each other on the shaft, so as to act at each half revolu-

tion of the shaft. Attached to these cranks are connecting rods F and G, which have their lower ends attached to the back of a sifter H, the front edge of which is supported by two rods J, having their upper ends attached to the sides of the box above the level of the sifter, and are long enough so as to allow the front edge of the sifter to be lower than the back of it. The object of this arrangement of the double acting cranks, and rods for suspending the sifter is to cause it to vibrate or agitate with a compound motion, and at the same time an alternating oblique motion from side to side, so as to cause the ashes and cinders to roll and progress forward obliquely across the meshes of the sieve and thereby more thoroughly and expeditiously sift the ashes and cinders than could be done by any ordinary vibratory motion.

Letters K is a hopper arranged upon the box, above the sifter, and L, is a cover to the box, to prevent dust from rising when sifting the ashes. It will be obvious that this precise arrangement of the box may be varied, and the sifter arranged in any other suitable box, I therefore set up no especial claim to the ash box, irrespective of its combination with the sifter.

Having now described my invention and its mode of construction I will set forth what I claim and desire to secure by Letters Patent of the United States.

What I claim is—

The use of the sieve, in combination with the double acting cranks and rods for suspending the sieve, for the purposes, and in manner of arrangement of parts in any suitable ash box, substantially as hereinbefore set forth.

CHARLES JONES.

Witnesses:

JOHN MULVANY,  
CHARLES L. BARRITT.