

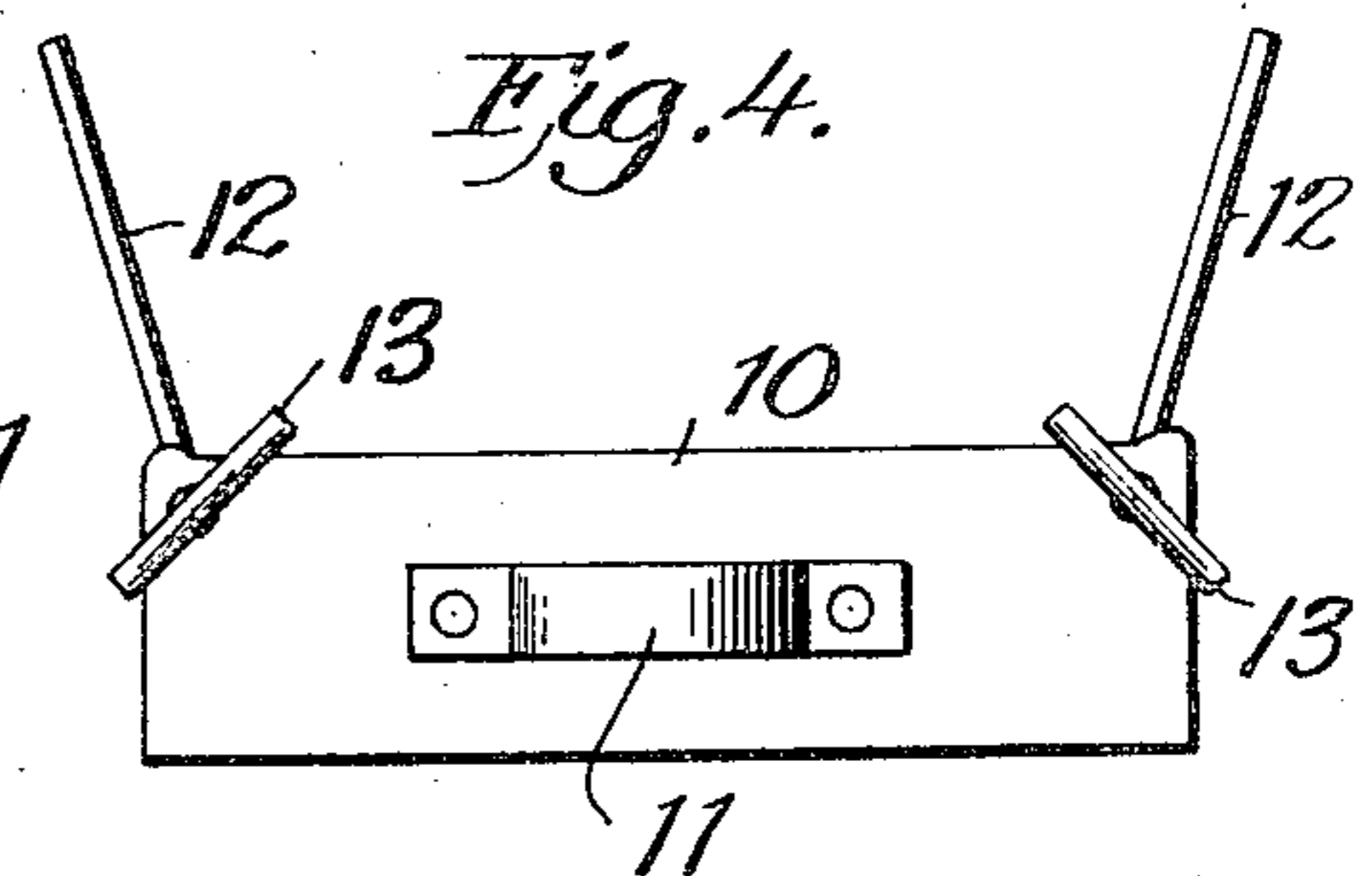
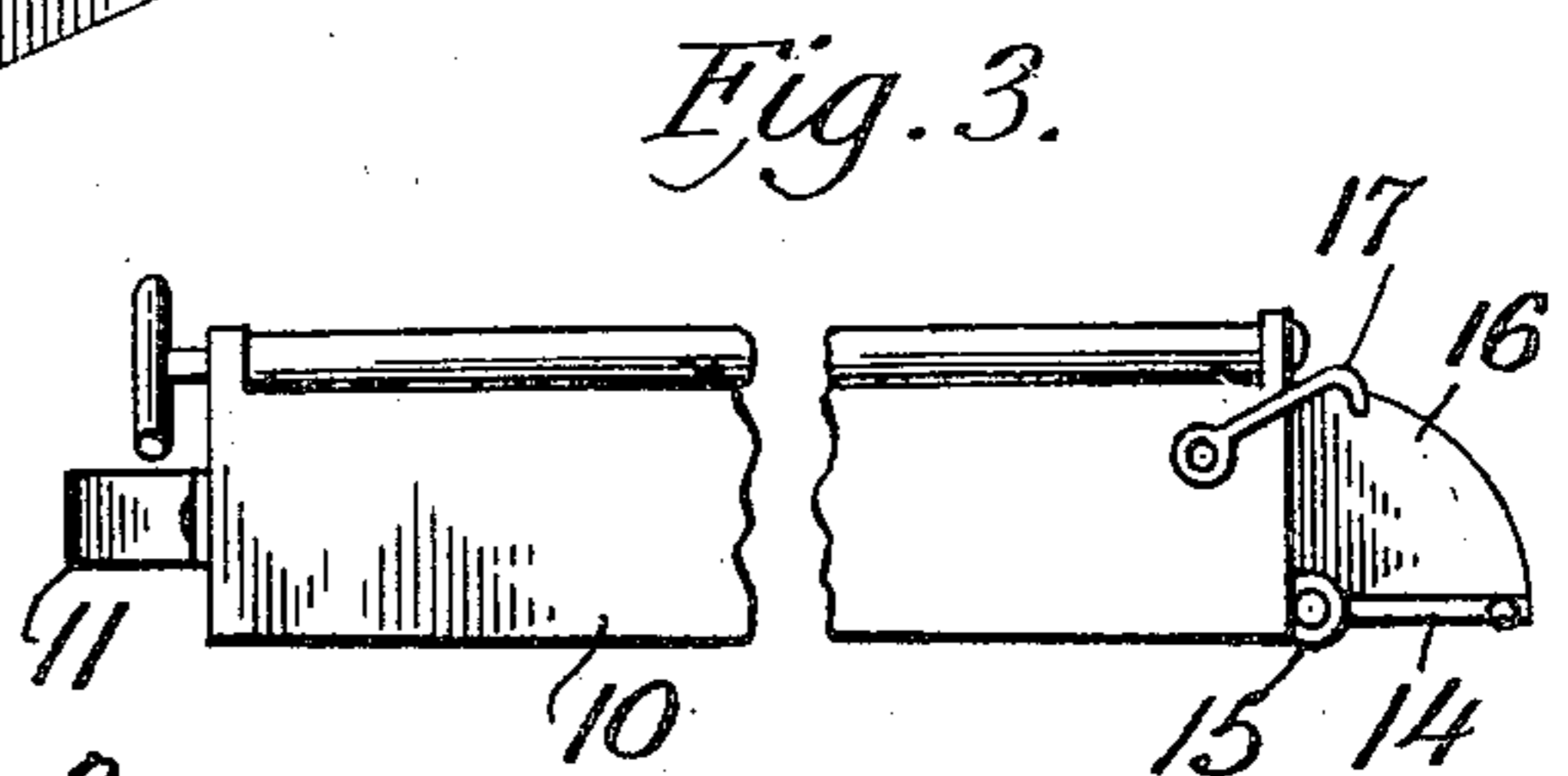
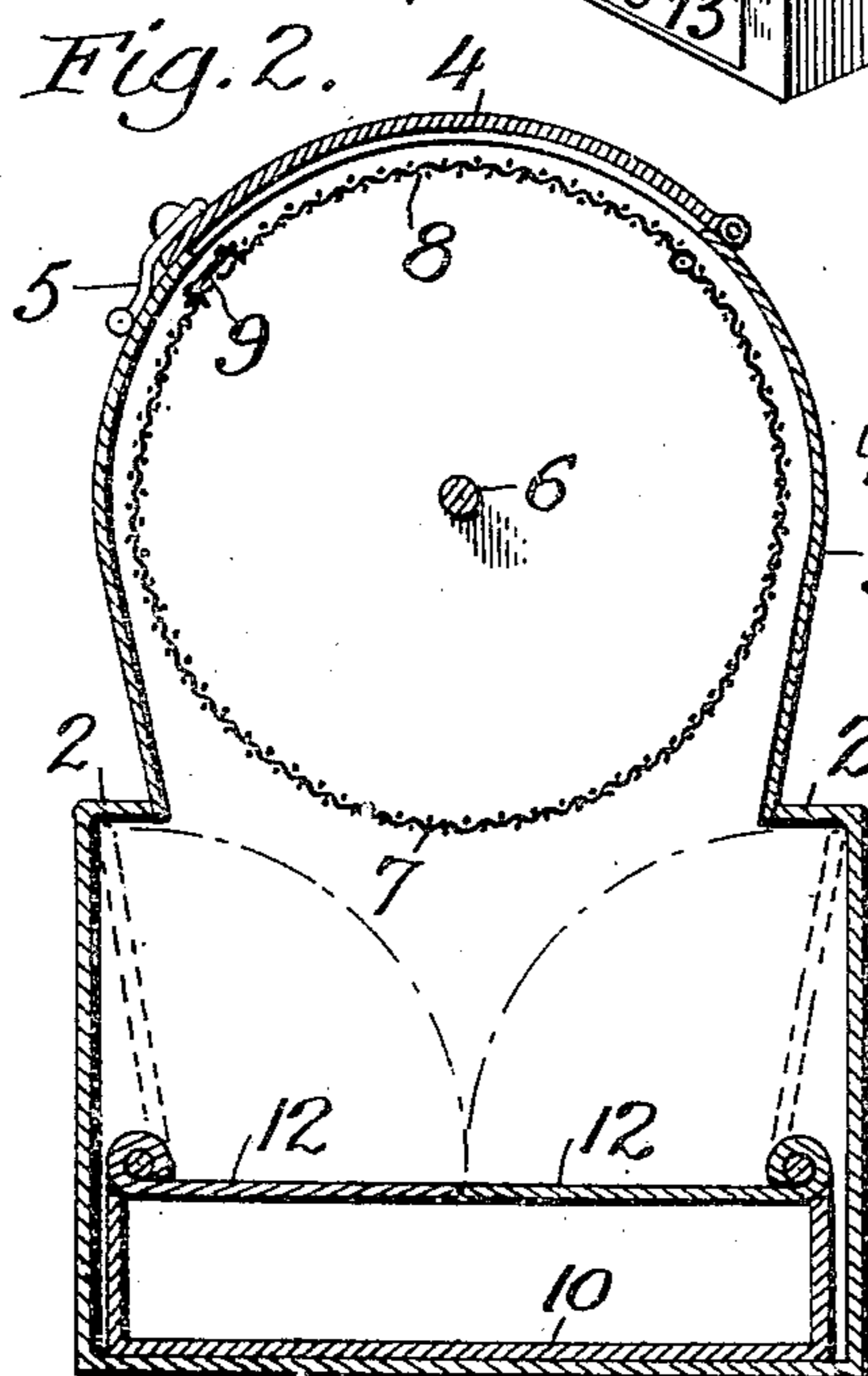
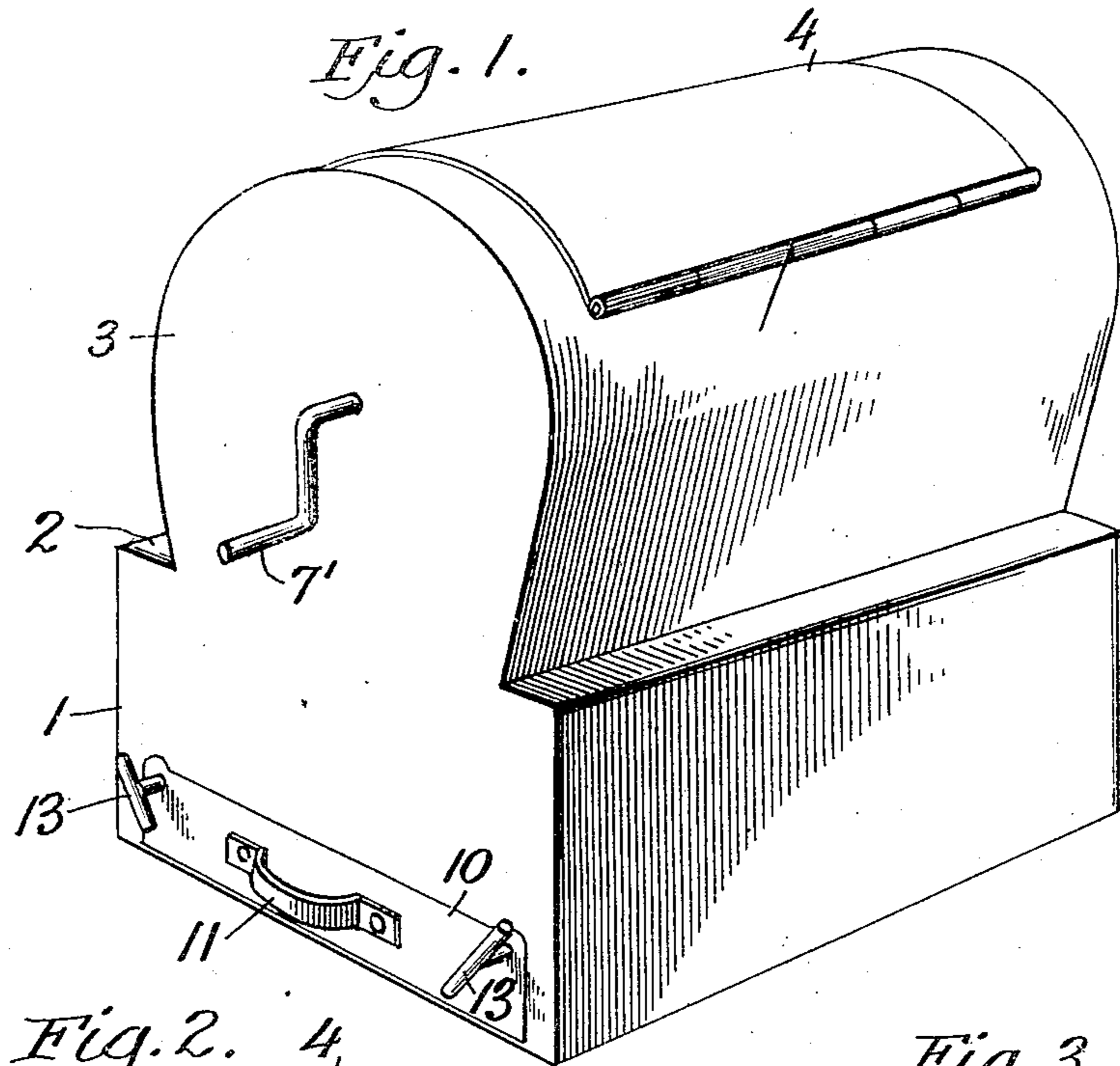
No. 824,421.

PATENTED JUNE 26, 1906.

A. A. GALLOWAY.

SIFTING DEVICE.

APPLICATION FILED OCT. 17, 1905.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

ABRAHAM A. GALLOWAY, OF CRYSTALRUN, NEW YORK.

## SIFTING DEVICE.

No. 824,421.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed October 17, 1905. Serial No. 283,182.

*To all whom it may concern:*

Be it known that I, ABRAHAM A. GALLOWAY, a citizen of the United States, residing at Crystalrun, in the county of Orange and State of New York, have invented new and useful Improvements in Sifting Devices, of which the following is a specification.

This invention relates to sifting devices such as are intended particularly for use in apartment houses and the like where it is desirable to prevent the escape of ash-dust during the sifting operation or after the completion thereof.

The objects of the invention are to improve and simplify the construction of sifting devices; furthermore, to increase their efficiency in operation and to decrease the expense attending their manufacture.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed as a practical embodiment thereof.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of a shifting device constructed in accordance with the present invention. Fig. 2 is a vertical transverse section thereof. Fig. 3 is a side elevation of the ash-drawer. Fig. 4 is an end elevation of the ash-drawer with the doors thereof in open position.

Like reference-numerals indicate corresponding parts in the different figures of the drawings.

The reference-numeral 1 indicates a casing which preferably is rectangular in shape at its lower portion and is formed with shoulders 2. Extending upward from the shoulders 2 is a housing 3, which preferably is of the shape of a horseshoe in cross-section. At its upper end the housing 3 is provided with a door 4, which is adapted to be opened and closed by means of any suitable form of handle 5. Extending longitudinally through the housing 3 is a shaft 6, having a crank portion 7' on one end thereof. Mounted in any suitable manner upon the shaft 6, so as to rotate therewith, is a cylinder 7, which is formed, preferably, of woven-wire netting or other foraminated material. The cylinder 7 is provided with a door 8, having a suitable catch or fastening device 9.

At its lower end the casing 1 is formed with a suitable opening into which is fitted a

drawer 10, having a handle 11. The drawer 10 is provided with a pair of doors 12, hinged to the side edges of said drawer and each having a handle 13, projecting outward from the forward end of the drawer in manner similar to an ordinary flue-damper. By turning the handles 13 the doors 12 may be opened and closed. It will be understood that the drawer 10 can be moved into and out of the casing 10 only when the doors 12 are closed, as shown in Fig. 2. Each of the doors 12 is of such width that when it is in open position, as shown in Fig. 4, its upper end will rest beneath the adjacent shoulder 2 of the casing 1, as indicated by the dotted lines in Fig. 2. For this reason the shoulders 2 will prevent any ashes from falling in back of the doors 12, and said doors will serve to guide the ashes into the drawer 10. At its rear end the drawer 10 is provided with a tail-gate 14, which is hinged at 15 and is provided at its sides with segmental flanges 16. The tail-gate 14 is held in closed position by means of a hook or catch 17.

Constructed as above described the improved device is used in the following manner: The doors 4 and 8 are opened and the material which is to be sifted is poured into the cylinder 7, after which the doors 4 and 8 are closed and fastened in any suitable manner. The cylinder 7 is then rotated by means of the crank 7', so as to cause the ashes or other material to be sifted into the drawer 10. At the completion of the sifting operation the doors 12 are closed and the drawer 10 is withdrawn from the casing 1. By opening the tail-gate 14 the ashes or other material may be dumped into a suitable receptacle without creating an undue amount of dust.

It will be understood that the improved device of this invention can be constructed for use as an ash-sifter or other suitable article of a similar nature by merely changing the woven-wire material of the cylinder 7 to make it finer or coarser in mesh.

Minor changes in the proportion, size, shape, and details of construction of the precise embodiment of invention illustrated and described may be made without departing from the spirit of the invention or sacrificing any of its advantages.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. A sifting device comprising a casing in-

cluding an ash-chamber and a sifting-chamber, an ash-drawer arranged to be positioned within the ash-chamber, said chamber being formed with an opening approximating the sectional area of the drawer to permit the entrance of the drawer, doors having hinged connection with the drawer, and means connected with the doors and operative from beyond the end of the drawer, whereby to permit opening and closing of said doors when the drawer is within the ash-chamber.

2. A sifting device comprising a casing including an ash-chamber, and a sifting-chamber, an ash-drawer arranged to be positioned within the ash-chamber, said chamber being formed with an opening approximating the sectional area of the drawer to permit the entrance of the drawer, doors having hinged connection with the drawer, and means connected with the doors and operative from beyond the end of the drawer, said doors being pivotally supported between the side edges and the longitudinal center of the drawer, whereby said doors incline outwardly and upwardly from the drawer when in open position.

3. A sifting device comprising a casing in-

cluding an ash-receptacle and a sifting-receptacle in open communication therewith, the edges of the ash-receptacle being provided with inwardly-extending side flanges at the junction with the sifting-receptacle, a sifting device within the sifting-receptacle, a drawer adapted to be inserted within the lower portion of the ash-receptacle, and doors hinged to the side edges of the drawer, said doors being adapted to be turned upon their connection with the drawer to position their free edges beneath the flanges of the ash-receptacle beyond the inner edges thereof, the hinge connection of the doors with the drawer being located inward from the side edge of the drawer, and handles connected to the doors and extending beyond the forward face of the drawer, whereby to permit manipulation of the doors when the drawer is in closed position.

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

ABRAHAM A. GALLOWAY.

Witnesses:

F. D. YOUNGBLUD,  
HARVEY E. HOLLY.