

(No Model.)

D. E. BURNER & M. SHANER.
DEVICE FOR CLEANING OR BRUSHING SIEVES.

No. 559,258.

Patented Apr. 28, 1896.

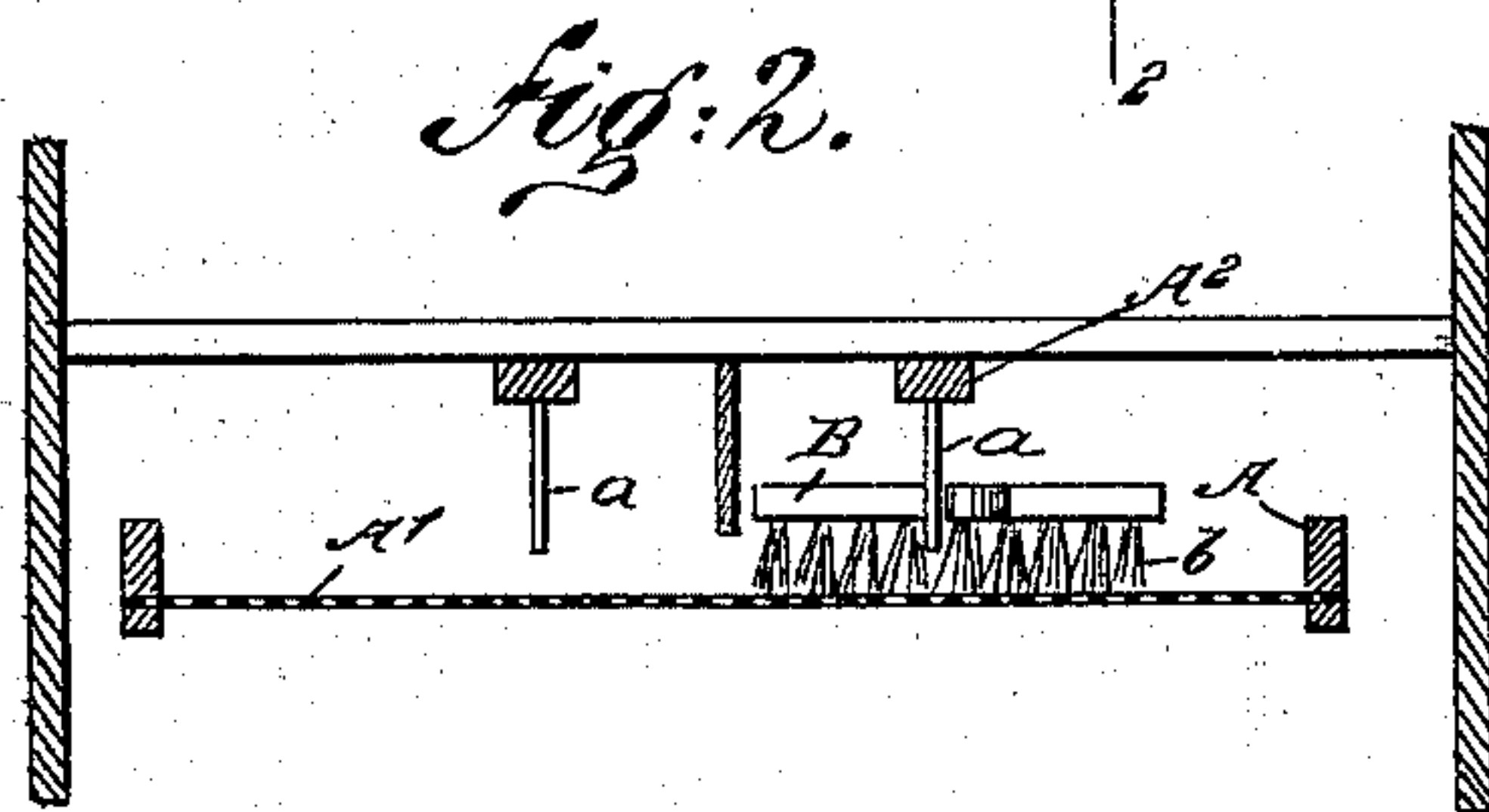
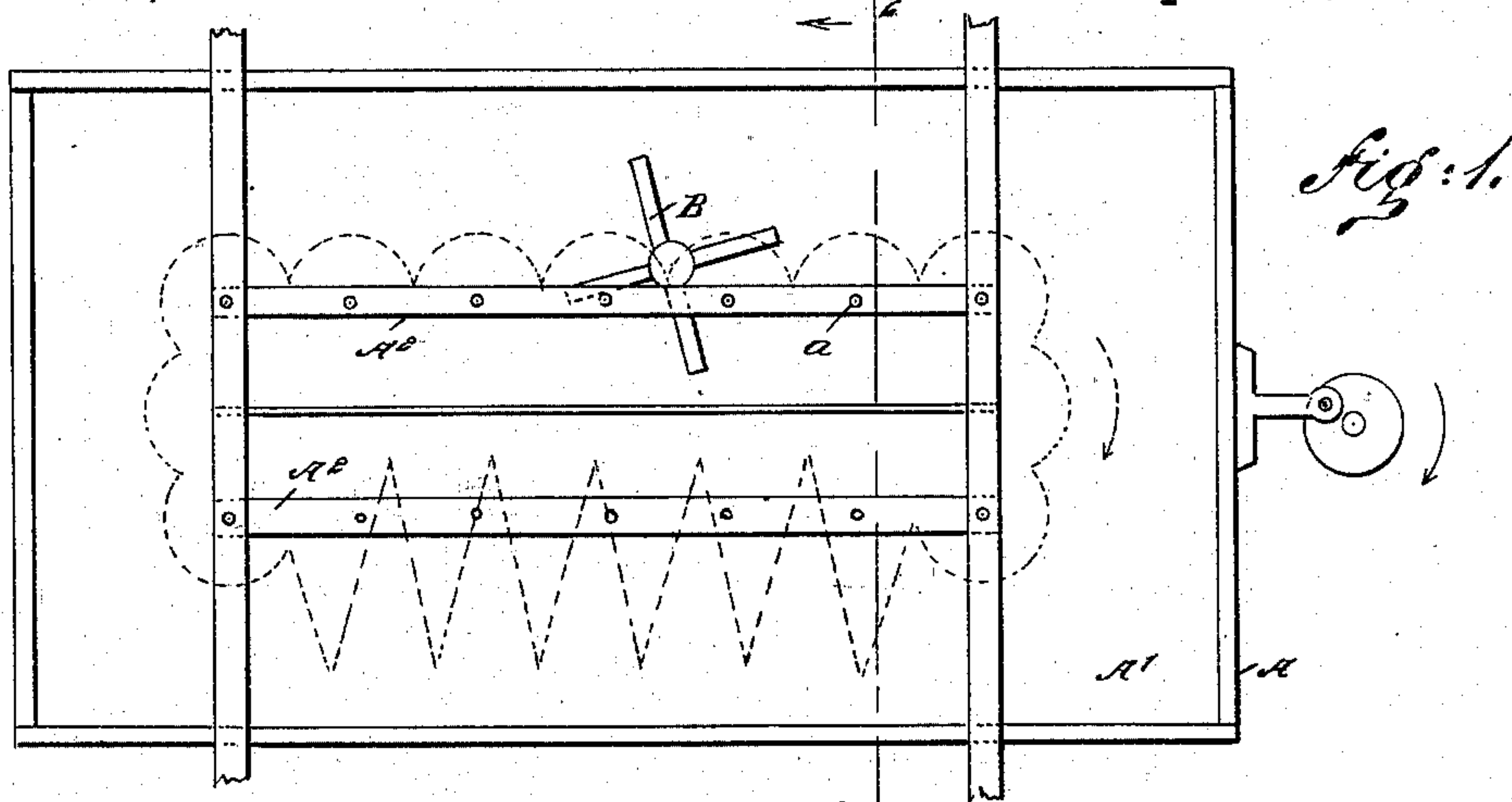


Fig: 3.

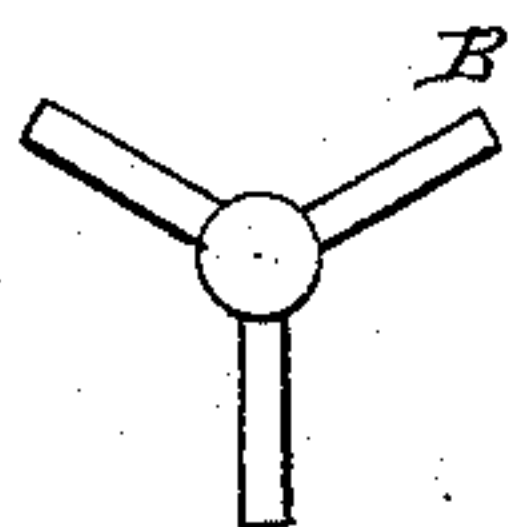


Fig: 4.

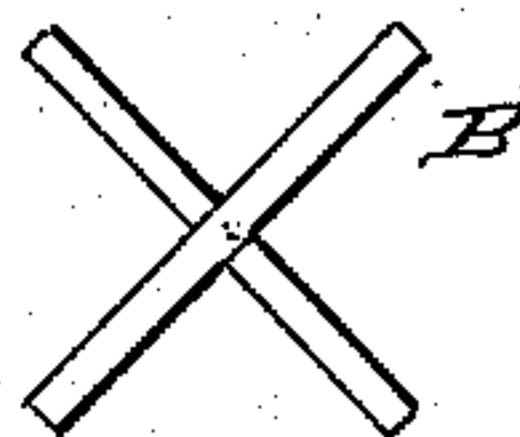


Fig: 5.

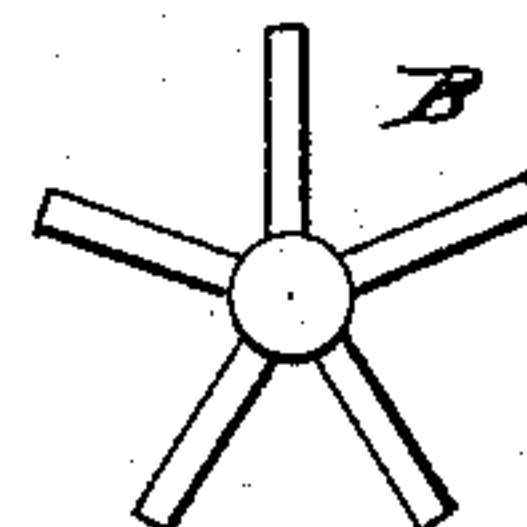


Fig: 6.

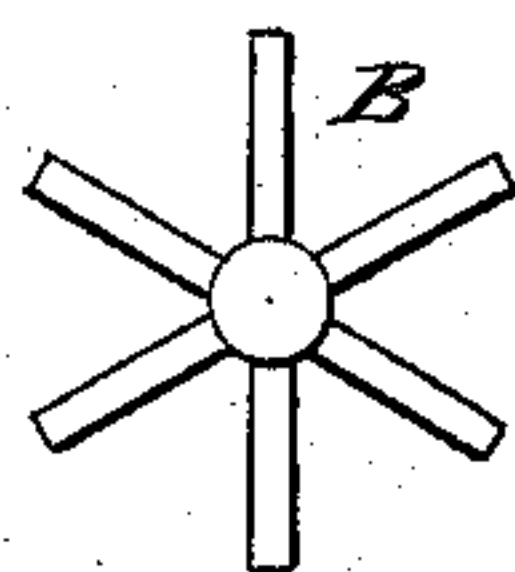


Fig: 7.

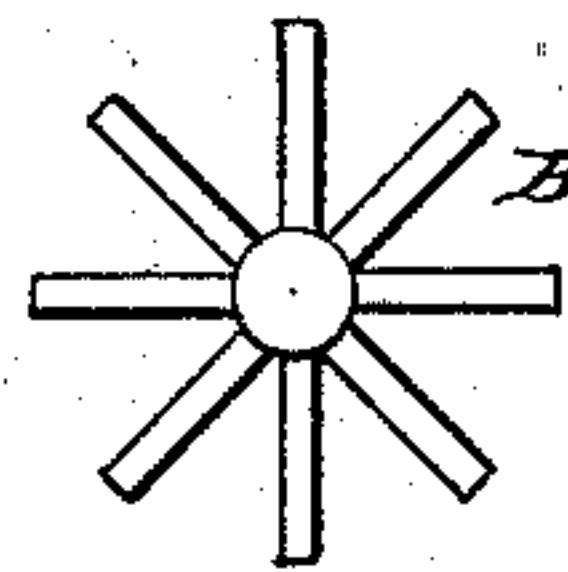
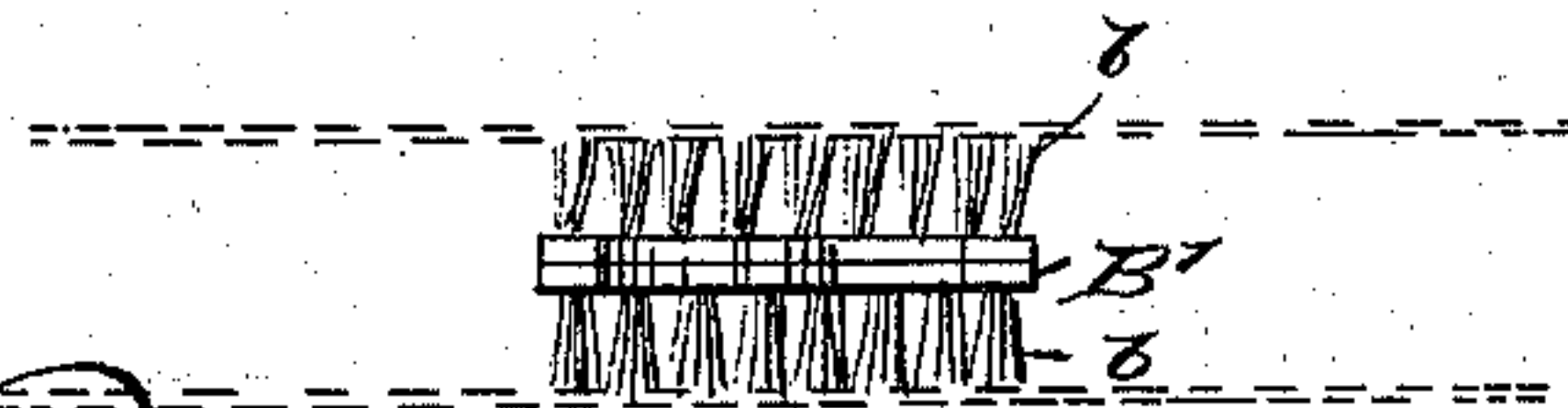


Fig: 8.



WITNESSES:

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UNITED STATES PATENT OFFICE.

DANIEL E. BURNER AND MACONIUS SHANER, OF COLUMBUS, OHIO.

DEVICE FOR CLEANING OR BRUSHING SIEVES.

SPECIFICATION forming part of Letters Patent No. 559,258, dated April 28, 1896.

Application filed June 28, 1895. Serial No. 554,368. (No model.)

To all whom it may concern:

Be it known that we, DANIEL E. BURNER and MACONIUS SHANER, of Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Devices for Cleaning or Brushing Sieves, of which the following is a full, clear, and exact description.

This invention relates to devices for cleaning or brushing sieves used for bolting flour, particularly that class of horizontal bolting-sieves to which a gyrating motion is imparted by suitable mechanism; and the object is to provide a simple and comparatively inexpensive brush for this purpose.

The invention consists in a brush comprising radial body-arms to which the brush material is attached, and in means for causing the brush to move over the surface of the bolting-cloth.

It further consists in the construction and novel arrangement of parts, as will be hereinafter set forth, and particularly pointed out in the appended claims.

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 all the figures.

Figure 1 is a plan view of a sieve and attachments embodying our invention. Fig. 2 is a section on the line 2 2 of Fig. 1. Figs. 3, 4, 5, 6, and 7 show modified forms of brushes; and Fig. 8 shows another modification.

Referring by the reference-characters to the drawings, A designates the frame of the sieve, to which the sieve material, preferably bolting-cloth A', is attached in the usual manner. Gyrating motion in a horizontal plane is imparted to the sieve by any of the well-known means. Above the sieve and extended longitudinally thereof are bars A², secured to suitable fixed supports, and from each bar a series of pins a extend downward nearly to the bolting-cloth.

B indicates the body-block of the traveling brush, comprising a number of arms radiating from a common center. The number of arms is not material provided there be not less than three, as illustrated in the various examples, Figs. 3 to 7. The arms may radiate from a central block or they may be secured together, as indicated in Fig. 4, and it is necessary that the arms be sufficiently long to prevent the brush from passing between two pins.

Any desired brush material b may be used, but preferably bristles.

In Fig. 8 we have shown brush material b on both sides of the body-block B'. This brush is designed to clean two sieves, one located above the other, by brushing the upper side of one and the lower side of the other.

In operation the brush is placed loosely on the sieve and the gyrating movement of the sieve will cause the brush to rebound back and forth between the frame and the pins, and the pins direct the brush around the sieve, substantially as indicated by the dotted lines in Fig. 1.

We have shown two pin-bearing bars A²; but a single bar centrally located will answer the purpose, and therefore we do not limit the invention in this respect.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. The combination, with a sieve having a gyratory motion, and pins extended from a fixed support over the sieve, of a brush placed on the sieve material, the said brush being free to move by impact with the pins, lengthwise of the sieve and also transversely of the sieve during the lengthwise movement, substantially as specified.

2. The combination with a sieve having a gyratory motion, of pins depending from a fixed support over the sieve, and a brush placed loosely on the sieve and adapted to be directed by said pins over the sieve material the said brush being moved back and forth between the pins and the sieve-frame by the motions of the sieve, substantially as specified.

3. The combination with a sieve having a gyratory motion, of a series of pins depending from a fixed support over the sieve, and a brush designed to be placed loosely on the sieve and having radial arms adapted to engage with the pins but having a sufficient length to prevent the passage of the entire brush between adjacent pins, substantially as specified.

DANIEL E. BURNER.
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Witnesses:

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