

No. 658,385.

Patented Sept. 25, 1900.

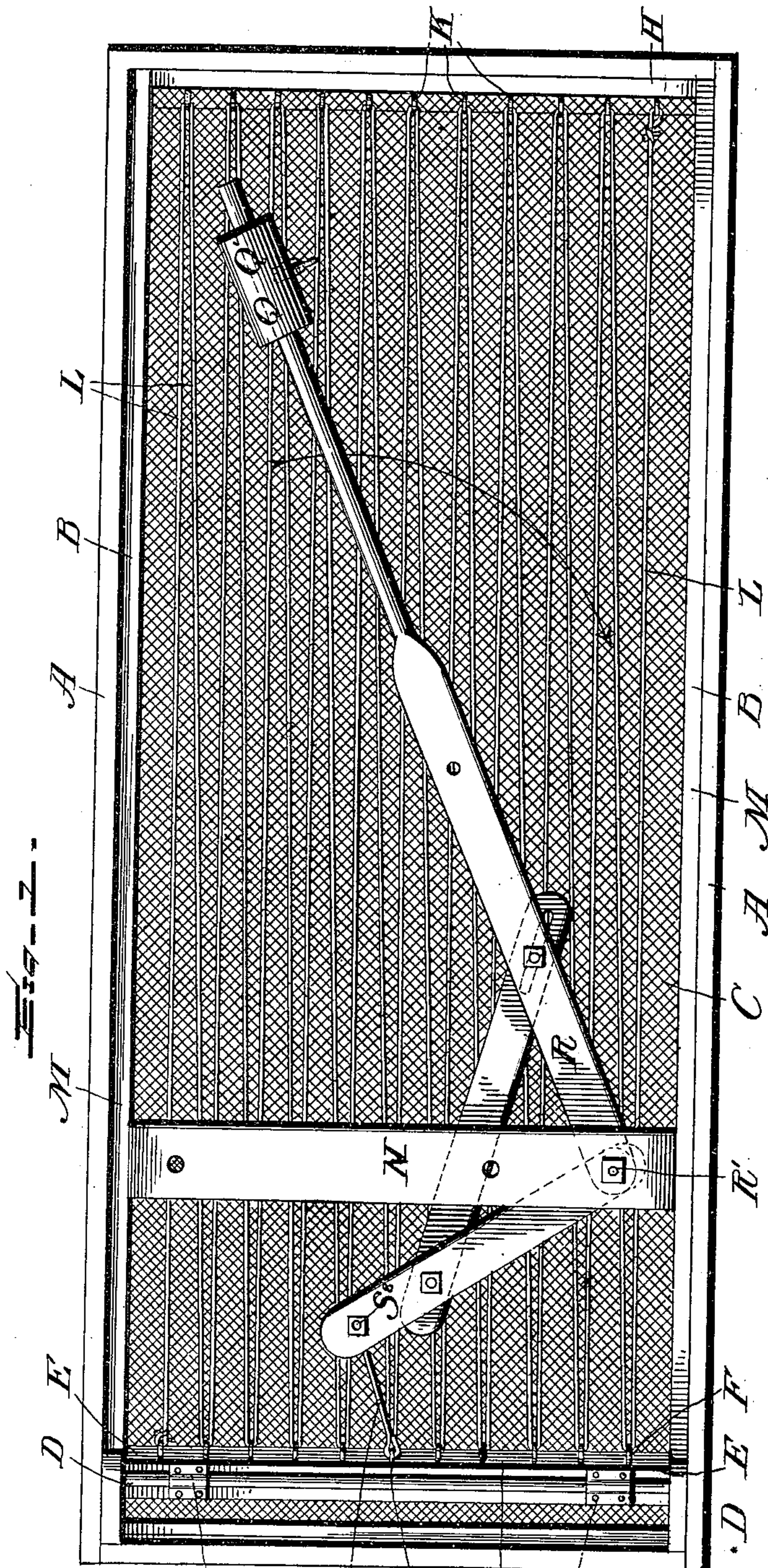
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CLOTH CLEANING DEVICE FOR SIEVES IN BOLTING MACHINES.

(No Model.)

(Application filed June 23, 1900.)

2 Sheets—Sheet 1.



WITNESSES:

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a. L. Hough

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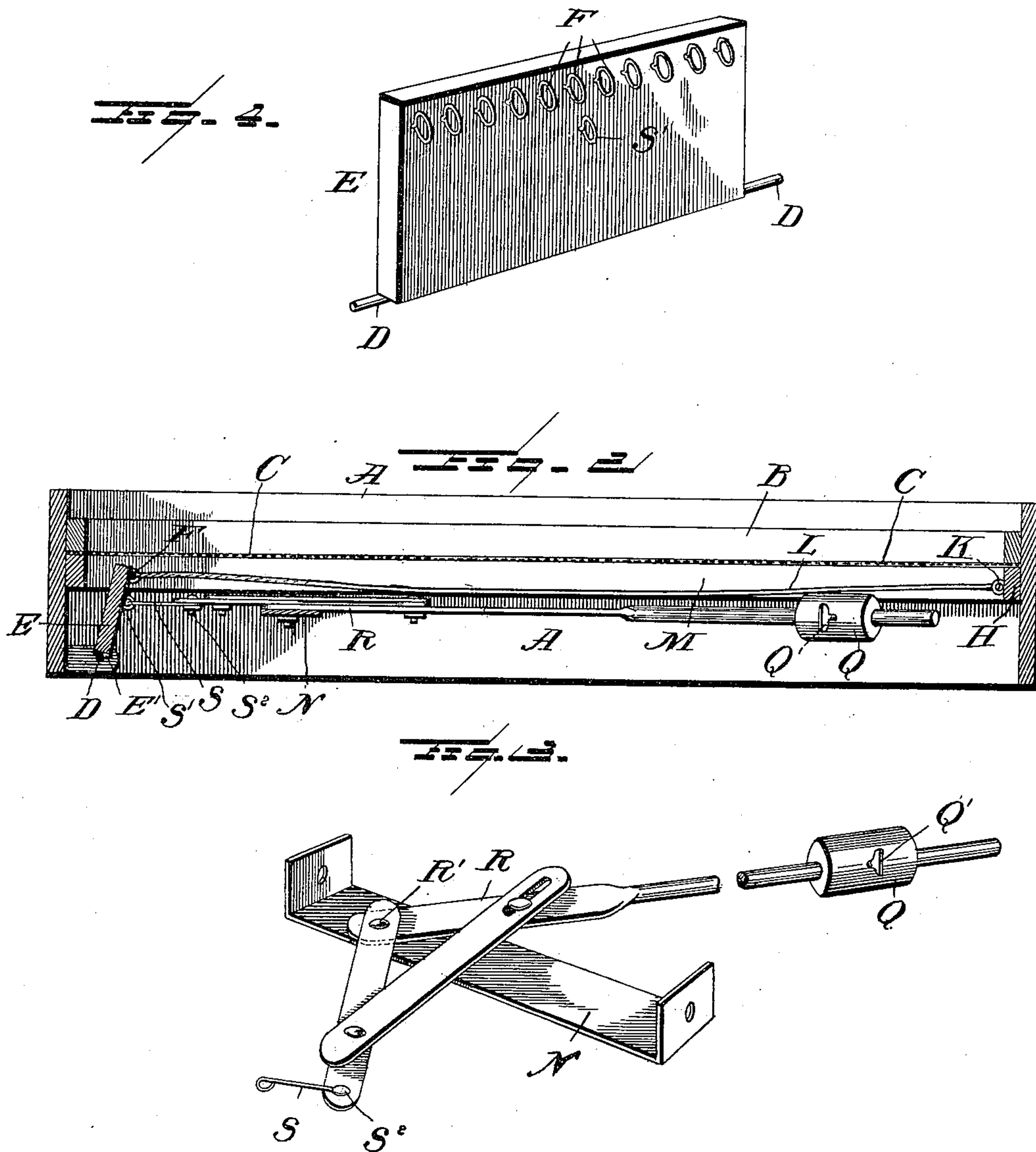
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WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN CALVIN MAUN, OF McCONNELLSBURG, PENNSYLVANIA.

CLOTH-CLEANING DEVICE FOR SIEVES IN BOLTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 658,385, dated September 25, 1900.

Application filed June 23, 1900. Serial No. 21,327. (No model.)

To all whom it may concern:

Be it known that I, JOHN CALVIN MAUN, a citizen of the United States, residing at McConnellsburg, in the county of Fulton and State of Pennsylvania, have invented certain new and useful Improvements in Cloth-Cleaning Devices for Sieves in Bolting-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in cloth-cleaning devices for sieves used in grading and flour-bolting mills; and the object of the invention is to provide a means whereby the material to be sifted is agitated by means of whipping-cords, which are operated by means of mechanism as the frame of the sieve or screen is given a gyrating motion.

More specifically the invention comprises, in connection with the frame of a sieve or screen, a series of whipping-cords, which are held loosely within the frame and are fixed at one end, while their opposite ends or looped portions are mounted on the swinging edge of a hinged plate, which is adapted to be actuated by means of a weighted and pivoted angle-lever as the frame of the sieve is given a gyrating motion.

My invention will be hereinafter more fully described, and then specifically defined in the appended claim, and is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form part of this application, and in which drawings similar letters of reference indicate like parts throughout the several views, in which—

Figure 1 is a bottom plan view of my improved device for cleaning the screen of flour-bolting sieves. Fig. 2 is a longitudinal sectional view through the sieve. Fig. 3 is an enlarged detail view of the angle-lever provided with an adjustable weight. Fig. 4 is a detail view of the swinging plate.

Reference now being had to the details of the drawings by letter, A designates a casing, in which a frame B of the sieve is held in any

suitable manner. This sieve is provided with a screen C, of bolting-cloth, and mounted on a shaft D, held in the walls of the casing, is a swinging plate E, having eyes E', which are pivoted on said shaft D. Near the swinging edge of said plate E are secured a series of screw-eyes F along the inner face of said plate, and at the opposite end of the casing, mounted upon a plate H on the inner wall of the casing, is a similar series of screw-eyes K, and connecting said eyes on the swinging edge of the plate E to the stationary eyes K is a series of cords L, or, if preferred, these cords may consist of a single piece, which is fastened at one of the outermost of said stationary eyes and passed longitudinally of the casing and alternately back and forth through the two sets of eyes, as shown in the drawings. These cords normally rest in a slack relation adjacent to the under surface of the screen; but as the plate E is raised or swung upward by means which will be presently described said cords will be alternately raised and lowered or whipped against the under surface of the screen for the purpose of cleaning the same and facilitating the sifting of the flour through the bolting-cloth. Securely held between the two longitudinal strips M on the inner walls of said casing is a plate or bracket N, the bent ends of which are fastened to said strips, and pivotally connected to said plate N, preferably upon its upper surface, is an angle-lever R, which is pivoted at R', and connecting the short end of said angle-lever with the plate E is a link S, one end of which is pivoted to a screw-eye S', while its other end is pivoted to a pin S² at the short end of said angle-lever. The long free end of the angle-lever carries an adjustable weight Q, which may be held at different locations on said long arm and fastened in an adjusted position by means of a thumb-screw Q'. As the casing of the screen is gyrated it will be noted that the weighted lever will be caused to swing, and through its connections with the plate E the latter will be oscillated, which will agitate the whipping-cords and cause the same to be raised and lowered and thrown gently against the under surface of the screen, thus facilitating the sifting of the flour without too violent an agitation.

Having thus described my invention, what

I claim to be new, and desire to secure by Letters Patent, is—

5 In combination with the casing of a gyratory screen, a swinging plate mounted between the longitudinal walls thereof, a series of eyelets near the free swinging edge thereof, a second series of eyelets at the opposite end of the frame adjacent to the screen, cords
10 connecting said series of eyelets, a bracket secured to the frame of the sieve, an angle-lever pivoted to said bracket, said lever hav-

ing pivoted link connections between one arm thereof, and said plate, and a weighted member adjustably held at various locations on the long arm of said lever, as shown and described. 15

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

JOHN CALVIN MAUN.

Witnesses:

GEO. W. REISNER,
M. R. SHAFFNER.