G. L. LOVETT.

PAPER-PULP WASHER.

No. 188,474. Patented March 20, 1877.

Fig. 1.

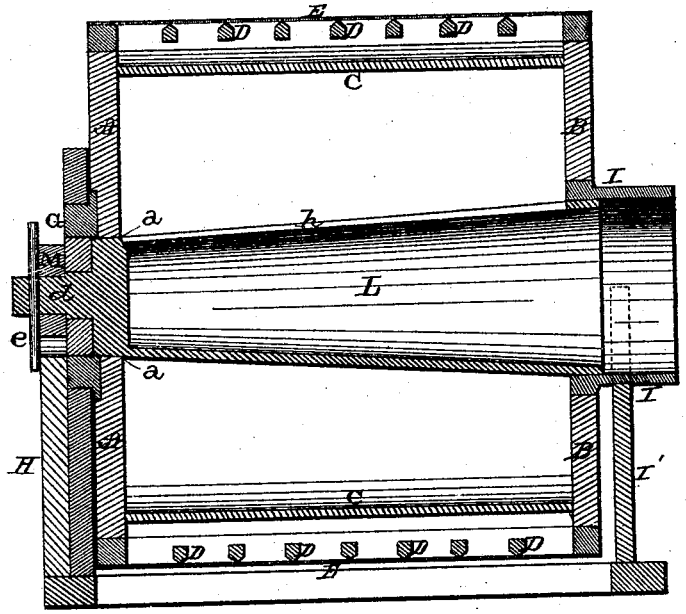
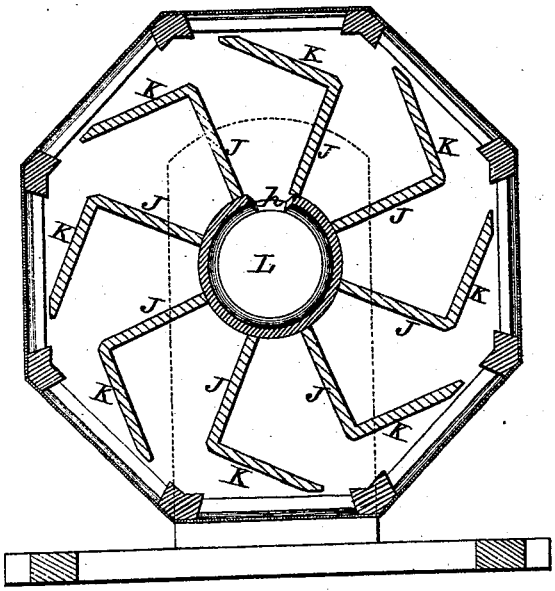


Fig. 2.



WITNESSES:

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per

F. A. Lehmann, Atty.

UNITED STATES PATENT OFFICE.

GEORGE L. LOVETT, OF FITCHBURG, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND JOHN T. EMERSON, OF CLAREMONT, NEW HAMPSHIRE.

IMPROVEMENT IN PAPER-PULP WASHERS.

Specification forming part of Letters Patent No. **188,474**, dated March 20, 1877; application filed February 13, 1877.

To all whom it may concern:

Be it known that I, GEORGE L. LOVETT, of Fitchburg, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Paper-Pulp Washers; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a strainer for washing paper-stock, as will be hereinafter more fully set forth.

In the annexed drawings, which fully illustrate my invention, A and B represent the strainer-heads, of polygonal form, connected at the angles by longitudinal bars C C, said bars being connected by cross-ribs D D, the whole covered on the outside by wire-cloth E.

In the center of the head A is formed or attached a gudgeon, G, which is made solid, except a small center hole, and has its bearing in a standard, H. In the head A is made a center hole, *a*, of larger diameter than the hole in the gudgeon G; but said hole is, of course, closed by the gudgeon, forming, in other words, simply an annular recess around the hole in the gudgeon.

In the center of the discharge-head B is attached a hub or collar, I, of larger diameter than the recess *a* at the other end; and this hub or collar rests in a semicircular cut on a standard, I'. This flanged hub bolts directly on the head B, and obviates the necessity of having two flanges, as in other strainers for this purpose, and it allows of the bearing being close to the strainer-head.

Within the strainer are formed a series of buckets, corresponding in number with the number of sides of the strainer. Each bucket extends from head to head, and is formed of two pieces, J and K. The piece J extends radially toward the corner of the strainer for a suitable distance, and its inner edge runs from the edge of the recess *a* to the inner edge of the hub or collar I, forming in the center of the strainer, as it were, a conical receptacle, bounded by the inner edges of the buckets. The piece J extends sufficiently far out that the piece K may be attached to its outer edge at right angles, and strike the ribs D about one-third the distance between the bars C C from the next one. This shape of buckets greatly facilitates the ingress of the water.

In the central receptacle of the strainer above mentioned is placed the discharge-cone L, the outer end of which fits within the hub or collar I, and is open. The inner or smaller end of the cone L is closed, and fits in the recess *a*. This end of the cone is provided with a tenon, *d*, that passes through the hole in the gudgeon G. The extreme end of the tenon *d* is made square, and a plate, M, is placed on the same, said plate resting upon shoulders on the standard H. A pin, *e*, is passed through the plate and tenon to prevent the cone from coming loose. In the top of the cone is a longitudinal slot, *h*, of suitable width.

By the use of the cone L an incline is formed, which discharges the water much faster; and it will thus be seen that I have accomplished two very important objects by my invention.

By the construction of the buckets the water is admitted more rapidly, and by the use of the cone it is discharged more freely.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In combination with the strainer and buckets, constructed as herein described, the central stationary cone L, provided on top with the longitudinal slot *h*, substantially as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 1st day of February, A. D. 1877.

GEORGE L. LOVETT.

Witnesses:

W. T. CURTIS,

CHAS. S. HAYDEN.