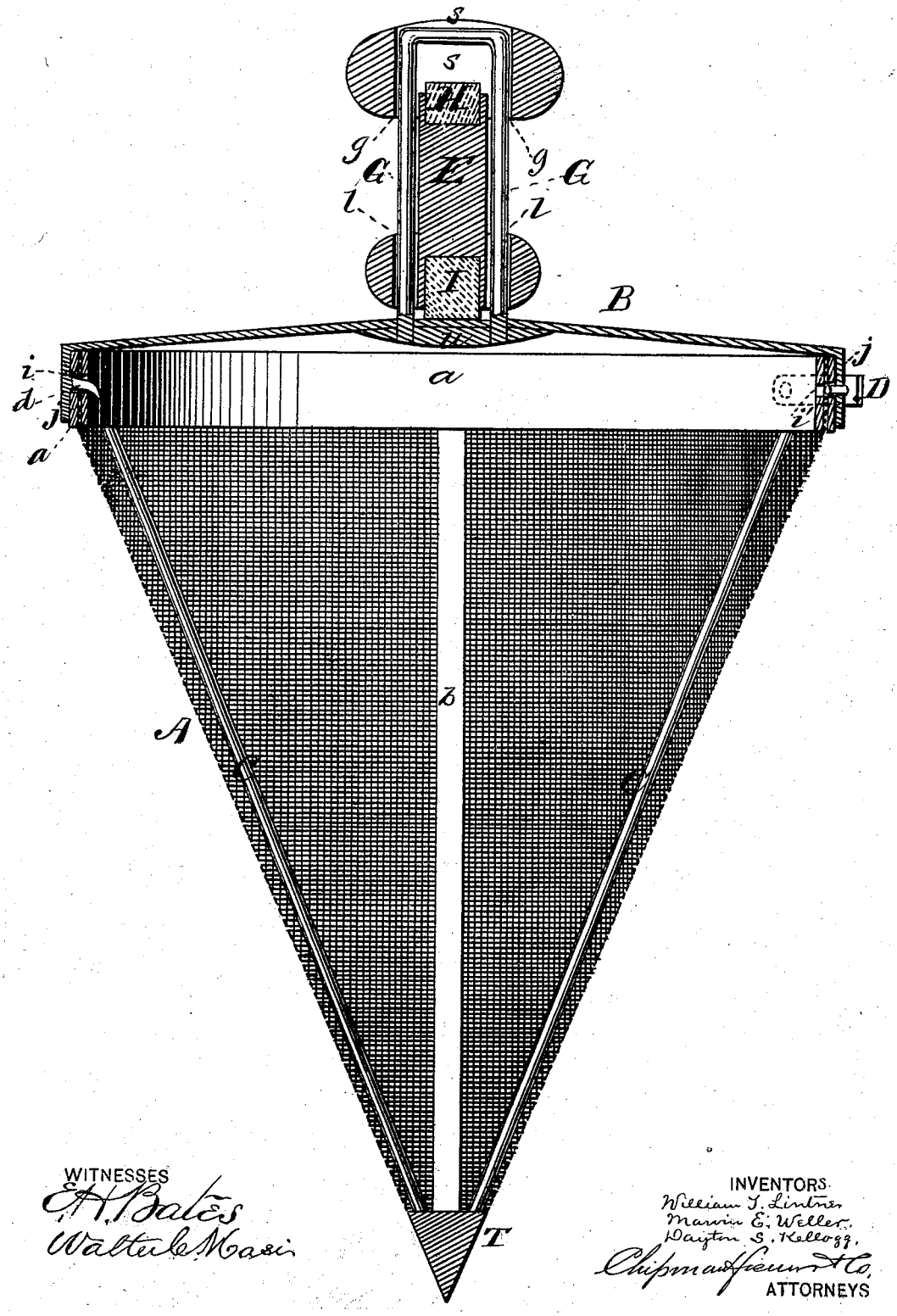
W. T. LINTNER, M. E. WELLER, & D. S. KELLOGG.

FLOUR-SIFTER.

No. 169,454. Patented Nov. 2, 1875.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM T. LINTNER, MARVIN E. WELLER, AND DAYTON S. KELLOGG, OF FORT PLAIN, NEW YORK.

IMPROVEMENT IN FLOUR-SIFTERS.

Specification forming part of Letters Patent No. **169,454**, dated November 2, 1875; application filed September 11, 1875.

To all whom it may concern:

Be it known that we, WM. T. LINTNER, MARVIN E. WELLER, and DAYTON S. KELLOGG, of Fort Plain, in the county of Montgomery and State of New York, have invented a new and valuable Improvement in Flour-Sifters; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

The figure of the drawings is a representation of a vertical central section of our sieve.

This invention has relation to sieves; and it consists, mainly, in the combination of a vertically-reciprocating handle, with a cone-shaped sifter, all as hereinafter shown and described.

In the annexed drawings, the letter A designates a cone-shaped wire-gauze sifter, which is soldered at its flaring end between a double band or rim, *a*, made of metal, and designed to hold the gauze-work in shape. This sifter is provided with one or more ribs, *b*, running on the inside and outside of the gauze-work from the apex to the band *a*, between which the material of the sifter is permanently soldered, thus endowing the sifter with great rigidity. Ribs *b* are soldered to rim *a* at at one end, and to a cone-shaped metallic tip, T, at the other end, which tip forms the apex of the sifter, and prevents it from being casually broken. C C represent braces running on the inside of the sifter, which are soldered at the top to band *a*, and at the bottom to tip T, as are ribs *a* above described. These braces are further designed to strengthen the sifter, and more effectually guard against its being battered or broken. Rim *a* is provided with two perforations, *i i'*, the one diametrically opposite the other, the former of which is intended to receive a hook, *d*, projecting inwardly from the rim *j* of a detachable lid, B. This hook serves as a hinge, and is designed to be received in perforation *i*. Perforation *i'* receives a projection, *e*, on a spring-latch, D, on the outside of the flange or rim J of the top B. Top B is of the usual well-known shape, provided in the center with a knob or handle, E, which is endwise movable in relation to the top. The top portion of this knob is transversely slotted, as shown at *s*, and is provided with two perforations, *g*, on each side, with corresponding perforations *l* in the bottom of said knob. These perforations are intended to receive a wire rod, G, bent in the form of a staple, and rigidly secured to the top of the sieve by means of a plate, *u*, soldered to the inner side of the top B, to which the said rod is also soldered. H I represent blocks of rubber, one of which is arranged in the slot *s* in the top of the knob, and the second in the bottom portion of the said knob, for a purpose hereinafter described.

The advantage gained by my sifter is, that when flour or other substances are to be sifted, the sieve portion may be thrust, tip foremost, into a barrel of flour or other substance, and, by turning it alternately to the right and the left, may be filled. It can then be removed therefrom, and, by taking hold of the handle, and giving it several percussive blows, the flour will fall therefrom free from lumps and grit. Another advantage possessed by my sifter is that, being provided with the rubber deadeners above described, the sound of the handle striking against the top of the sifter and the bent portion of the rod is done away with at the time when the percussive blows are given to the handle.

What we claim as new, and desire to secure by Letters Patent, is—

1. The combination of a detachable top, B, having flange *j*, with projecting hook *d*, and a spring-catch, D, with the conical sieve A, having rim *a*, with perforations *i i'*, substantially as specified.

2. The combination, with the sieve A and

detachable lid B, of the staple-shaped rod G, fixed to the latter, and an endwise-movable handle, E, substantially as specified.

3. In combination with a conical sifter, its top B, a wire staple-shaped rod, G, and an endwise-movable handle, E, the rubber deadeners H T, substantially as specified.

4. The combination, with the conical sieve A, of the solid apexial tip T, substantially as specified.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

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Witnesses:
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