

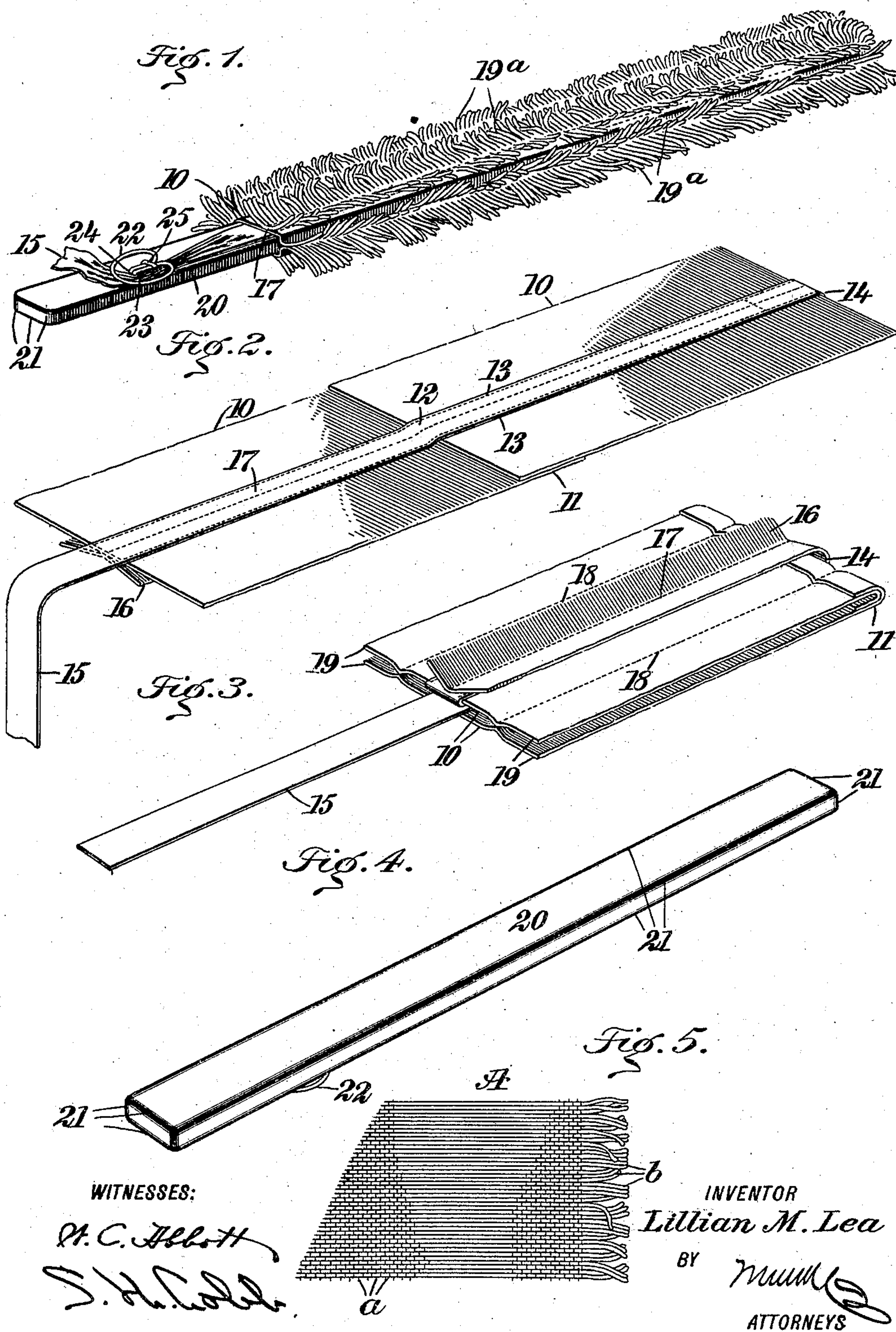
No. 782,669.

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L. McM. LEA.

DUSTER.

APPLICATION FILED OCT. 5, 1904.



UNITED STATES PATENT OFFICE.

LILLIAN McMASTER LEA, OF NEW YORK, N. Y.

DUSTER.

SPECIFICATION forming part of Letters Patent No. 782,669, dated February 14, 1905.

Application filed October 5, 1904. Serial No. 227,323.

To all whom it may concern:

Be it known that I, LILLIAN McMASTER LEA, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Duster, of which the following is a full, clear, and exact description.

My invention relates to dusters, and has for its principal objects the provision of a convenient and sanitary device of this character.

With these ends in view it consists in the features and combinations hereinafter described and more particularly claimed.

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 perspective view of one embodiment of my invention. Fig. 2 is an enlarged detail showing the duster proper in the course of construction. Fig. 3 illustrates another step. Fig. 4 is a perspective view of the holder, and Fig. 5 is a detail in top plan of the fabric from which the duster is constructed.

In producing my improved duster I preferably take two strips 10 10 of a comparatively loosely woven fibrous fabric A, which, as shown in Fig. 5, has slender hard warp-threads *a* and larger relatively soft weft threads or filling *b*, and place them in alignment with one another with their ends overlapping at 11, the warp-threads running longitudinally of the pieces. To the center of these strips is applied a narrow stay of a comparatively densely woven fabric or tape 12, which may be secured in place by lines of stitching 13 extending along its edges. One end of this tape is preferably turned over at 14 upon the opposite side of the strip 10 and stitched thereto, it thus holding the fabric against unraveling, while the opposite end at 15 is left loose and of considerable length for the purpose to be hereinafter stated. Upon the opposite faces of the pieces 10 from the tape is attached a narrow strip 16 of the fabric A, this being fixed in place by a line of stitching 17 extending through the center of the

strip and the center of the tape. This gives the device the form shown in Fig. 2. The strips are now doubled, with the ends of the pieces 10 adjacent to one another, and formed into a tube by parallel lines of stitching 18 18, the tape being within this tube upon opposite sides. This operation leaves pairs of projecting flaps 19 19 at each side of the strip 16. These flaps and the strip are now formed into a fringe 19^a by withdrawing the warp-threads as far as the stitching, this leaving the ends of the weft-threads free to furnish the fringe and giving the tube the appearance indicated in Fig. 1.

Into the completed tube may be inserted a holder, preferably consisting of a stick 20 of substantially uniform width and projecting beyond the duster proper to furnish a handle. The holder may be rounded upon its edges at 21 to decrease the wear upon the fabric and to render it easier to grasp in the hand. Upon the handle portion is mounted a securing device, preferably in the form of a spring-clip and consisting of a loop 22, of wire, the adjacent ends of which are bent into parallelism with one another at 23 and then substantially at right angles at 24 to enter the stick. The clip may be secured in place by a staple 25, driven into the handle. Between the clip and the handle may be drawn the free flexible end 15 of the tape, serving to hold the tube against longitudinal displacement.

When the tube of fabric is mounted upon the handle, it furnishes a convenient dusting device which will effectively operate over a large surface. When the fabric becomes soiled or loaded with dust, it may be readily removed from the holder and beaten or boiled to sterilize it. The loose soft character of the fabric is such that it readily takes up the dust and retains it. Nevertheless, by the construction which I employ great strength and durability are attained, the doubling of the main strips at the outer ends of the tube offering the necessary resistance to the breaking through of the holder, while the tape reinforces the entire structure and, with the lines of stitching, prevents its being drawn out of shape or unraveled.

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

1. A duster comprising a fabric tube, a holder of substantially uniform width fitting
5 within the tube and extending outside the same to furnish a handle, and means for securing the tube upon the holder.
2. A duster comprising a fibrous tube, a holder extending within the tube, a flexible
10 member secured to the interior of the tube, and a spring-clip fixed upon the holder for engagement by the flexible member.
3. A duster comprising a tube closed at one end and consisting of pieces of fabric overlapping
15 at the closed end, and a holder extending within the tube.
4. A duster comprising a tube of fibrous material, a stay secured within the tube at opposite sides thereof, and a holder extending
20 into the tube.
5. A duster comprising a tube of fibrous material, a stay secured within the tube at opposite sides thereof and having a free end, and a holder extending into the tube and to which
25 the free end of the stay may be attached.

6. A duster comprising a tube of comparatively loosely woven fabric, and a stay of a comparatively densely woven fabric attached thereto and extending outside the tube.

7. A duster comprising a tube of comparatively loosely woven fabric, and a stay of a comparatively densely woven fabric attached to the interior thereof, one end of said stay being turned over the end of the tube and attached thereto. 30

8. A duster consisting of a fabric having warp and weft threads, a portion of the ends of one of these sets of thread being left free. 35

9. A duster consisting of a fabric having warp-threads and relatively soft weft-threads, a portion of the ends of the weft-threads being left free. 40

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LILLIAN McMASTER LEA.

Witnesses:

F. I. CONGLETON,
FRANK A. McMASTER.