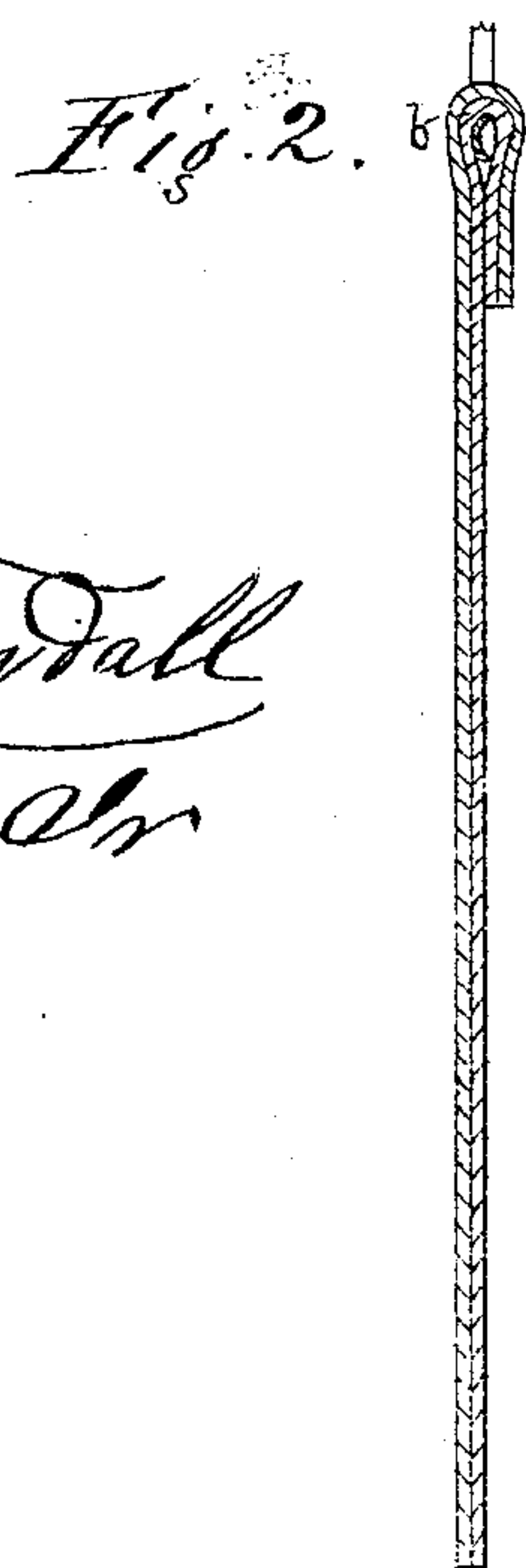
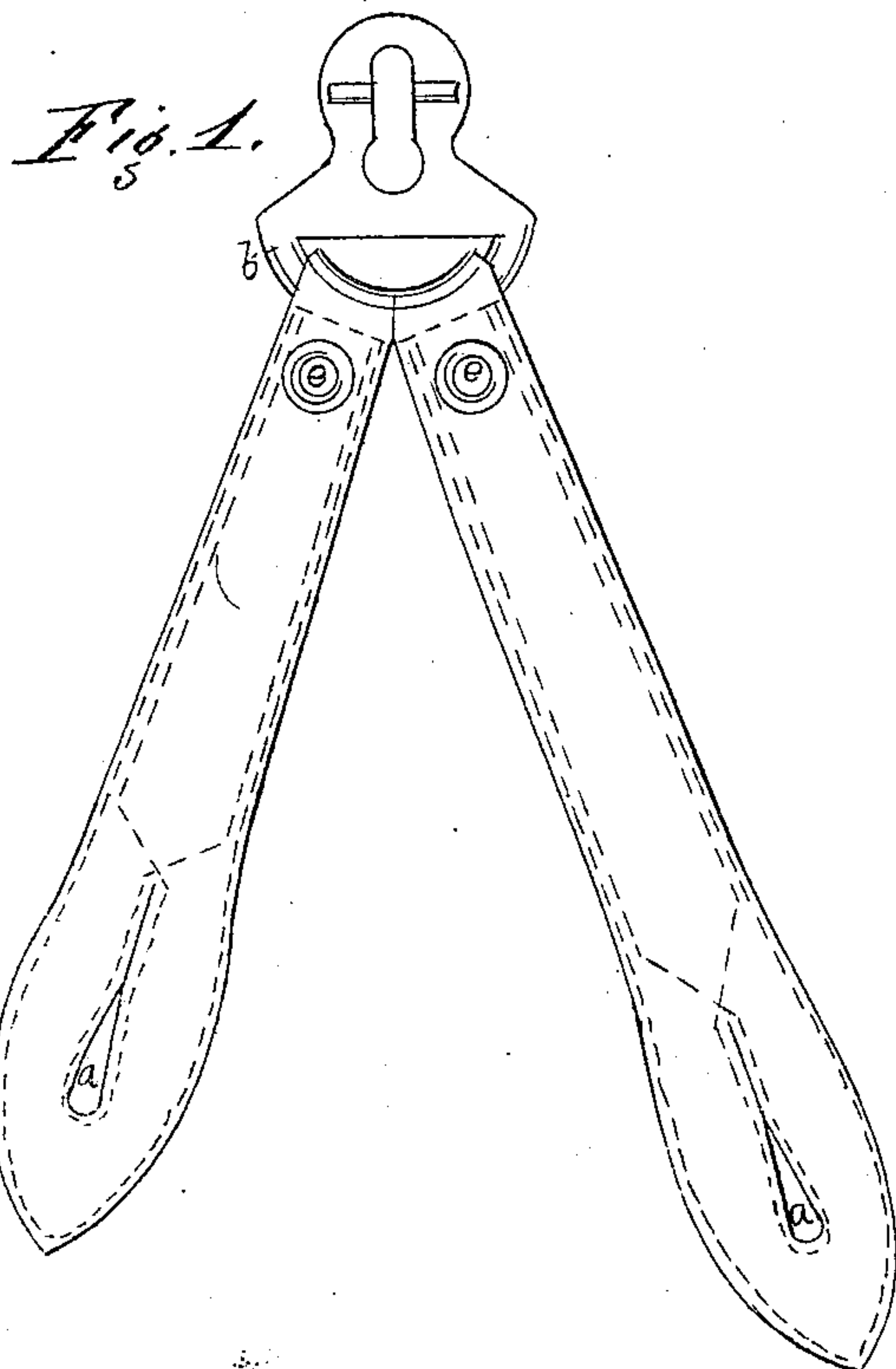


*T. J. Flagg,
Suspender.*

No. 89,302.

Patented. April 27, 1869.



*Witnesses.
Thomas J. Tindall
John Raittome Sr*

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by his atty.
E. S. Kimwick*

United States Patent Office.

THOMAS JEFFERSON FLAGG, OF NEW YORK, N. Y., ASSIGNOR TO "FISK, CLARK & FLAGG," OF SAME PLACE.

Letters Patent No. 89,302, dated April 27, 1869.

IMPROVEMENT IN FELT SUSPENDER-END.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, THOMAS JEFFERSON FLAGG, of the city, county, and State of New York, have invented a new article of manufacture, to wit, a Felt Suspender-End; and that the following is a full, clear, and exact description and specification of my said invention.

Previous to my invention suspender-ends, so far as I know, have been made of one of the following materials, viz:

First, leather.

Second, woven cloth.

Third, elastic web.

Suspender-ends constructed of each of these materials are defective:

The leather suspender-ends, because they stain the clothing when they become wet with perspiration; because, also, they become discolored by use, and also stiff.

The woven-cloth suspender-ends, because they ravel out at the edges if cut out by dies, while if they are doubled, so that the edges are turned in and then sewed, a clumsy article is produced.

The elastic-web suspender-ends are defective because they can be made only of a straight piece and require to be sewed at the ends; because, also, they wear badly at the button-hole, and because they continue to stretch until the India rubber is destroyed; because, further, they have an offensive smell when wet by the perspiration of the wearer.

I have discovered that suspender-ends may be constructed of strong felt with great facility and at a low cost, and that such articles are free from the defects of those before mentioned, because the suspender-ends may be cut out of the felt, by means of a die, into any desired form, and because the article, when finished, does not smell offensively nor stretch, as the India-rubber-web ends do; does not stain the clothing, nor become discolored nor stiff as leather suspender-ends do; and does not ravel out at the edges, nor require to have the edges turned in, as cloth does, when used for such purposes.

My invention, therefore, consists of a felt suspender-

end, (suitable for either one of the front ends or one of the rear ends of a pair of suspenders,) such felt suspender-end being a new article of manufacture.

A set of such ends, for the front end of the shoulder-strap of a pair of suspenders, is represented in the accompanying drawing—

Figure 1 representing a face view of them, and

Figure 2 representing an edge view of one of the suspender-ends.

In manufacturing my new suspender-ends I employ strong hard felt, such as is used for the manufacture of woolen hats or bonnets, or such as is used for covering piano-forte hammers.

I cut up the sheets of this material by means of dies of the desired form. I prefer to combine two of the pieces so cut by sewing lines of stitches through them by means of a sewing-machine, such lines of stitches being represented by the red lines in the drawing.

I cut out the button-hole *a*, at the end, by means of a die; and I connect the upper end of the article so produced to the shoulder-strap of the suspender.

If the felt suspender-end so produced be a front end, I prefer to connect it with the shoulder-strap by means of a buckle, the upper extremity of the suspender-end being doubled around the loop *b* of the buckle, and being secured by an eyelet, *c*.

If the felt suspender-end be a rear end, I may secure it to the shoulder-strap in the same manner as the front end, or by stitching or riveting it directly to the end of the shoulder-strap.

What I claim as my invention, and desire to secure by Letters Patent, is—

The felt suspender-end, hereinbefore described, as a new article of manufacture.

In testimony whereof I have hereto set my hand this 23d day of February, A. D. 1869.

THOMAS J. FLAGG.

Witnesses:

F. C. JONES, .

E. B. SMITH.