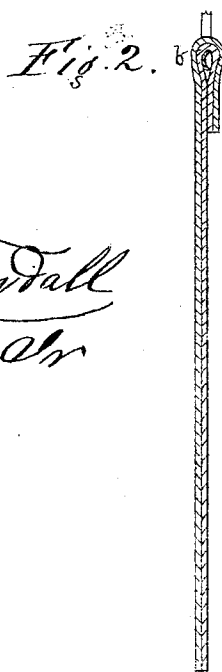
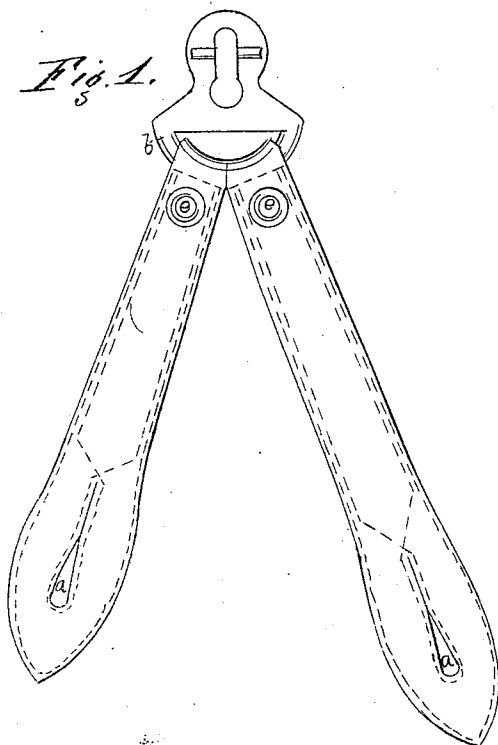


T. J. Flagg,
Suspender.

No. 89,302.

Patented. April 27, 1869.



Witnesses.
Thomas J. Tindall
John Raittson Jr

Inventor,
Thomas J. Flagg
by his atty.
E. S. Kemick

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.