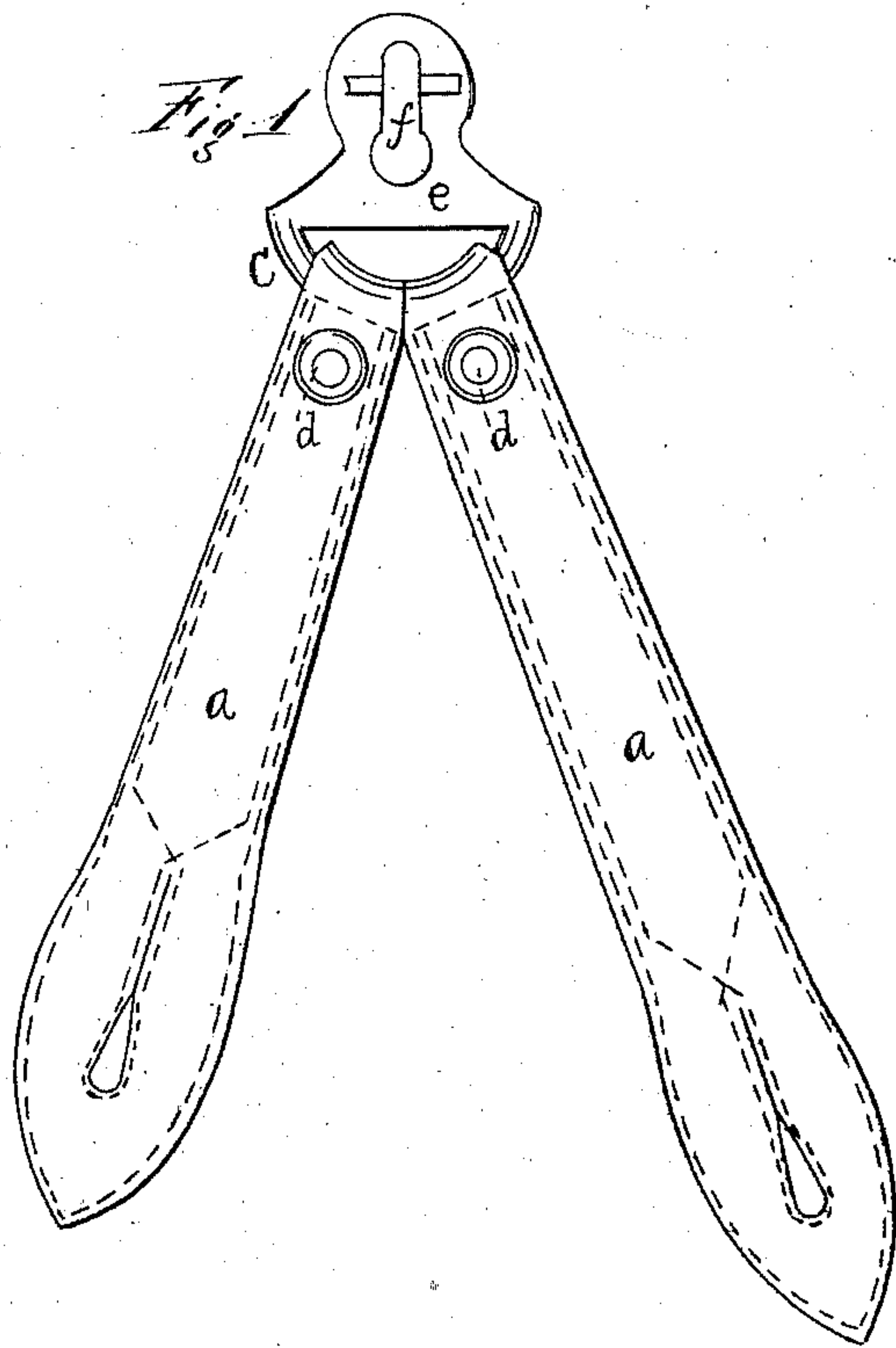


T. J. Flagg, Suspender.

No. 94,881

Patented Sept. 14, 1869.



Witnesses.
John Rashbone Jr
W. L. Bennett.

Inventor.
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United States Patent Office.

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

Letters Patent No. 94,881, dated September 14, 1869.

IMPROVEMENT IN SUSPENDER-ENDS.

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 made an invention of a new and useful article of manufacture, to wit, a Composite Felt Suspender-End, and that the following is a full, clear, and exact description and specification of the same.

My present invention is an improvement upon the article of manufacture described in the Letters Patent of the United States, granted to my assignees, Fisk, Clark, and Flagg, the 27th day of April, A. D. 1869, and its object is to attain wholly, or mainly, the advantages incident to the original invention, but with the addition of greater strength, when the articles are of equal thickness.

To this end, my invention consists of a suspender-end, faced with felt, and composed of felt combined with buckskin, chamois leather, kid, goat-skin, or other strengthening-material.

In manufacturing my improved article, I prefer to employ strong, hard felt, such as is used for the manufacture of bonnets, or such as is used for covering piano-forte hammers. I paste a sheet of the strengthening-material to a sheet of such felt by means of wheat-flour paste. I press the composite sheet, and permit it to dry. I then cut out the suspender-ends from the composite sheet by means of a cutting-die, whose edge corresponds with the outline of the suspender-end. I also cut a button-hole in one end of the article, by means of a cutting-die of the required form. The article is then sewed, with lines of stitching, by means of a sewing-machine, the effect of which is to improve the appearance of the article, and to combine its members securely.

The accompanying drawing represents, at

Figure 1, a face view of a pair of my improved suspender-ends, attached to a loop, by means of which they are connected with a shoulder-strap of a pair of suspenders.

Figure 2 represents a longitudinal section of one of said ends, and of the loop.

Each of said suspender-ends has a face, *a*, of hard felt, and a back, *b*, of buckskin, the two pieces being pasted together and combined securely by the lines of stitches, represented by the dotted lines in fig. 1.

Each suspender-end is firmly connected with the loop *C*, by doubling a portion of it through the loop, and making it fast by an eyelet, *d*, which is riveted, by means of an eyelet-press. The loop *C* is attached to a plate, *e*, which is perforated with a slot, *f*, that is

adapted to hook upon a stud projecting from the buckle of the shoulder-strap.

In some cases, I manufacture the articles of two thicknesses of felt, with a layer of goat-skin or kid between them; and in some cases, of a single thickness of felt, and a single thickness of chamois leather, with a layer of goat-skin or other strengthening-material between the two. In either case, I prefer to conduct the manufacture by first producing a composite sheet by pasting the material together.

The faces of the articles may be made of any desired color, by using felt dyed of that color. I prefer to employ, for my manufacture, felt produced without spinning and weaving, but felt produced in part by spinning and weaving will answer the purpose, provided the felting-process has been effected so thoroughly that the edges of the article, when cut, do not ravel. The articles may be made of any desired form, and in case of a rear suspender-end, I prefer to connect it permanently with the shoulder-strap, by sewing or riveting, instead of through the intervention of a buckle.

Composite felt suspender-ends, made as above described, have the ornamental appearance, and freedom from ravelling at the edges, of a suspender-end composed wholly of felt, and also the advantage that they do not tend to stain the clothing with which the felt face is in contact, even though the suspender-ends be wet with perspiration. They possess, in addition, the advantage incident to the strength of the strengthening-material with which the felt is combined.

Having thus described my new manufacture, and the mode in which it may be produced, I declare that I am aware that suspender-ends have been made of two or more thicknesses of various materials, and therefore I do not claim, broadly, a suspender-end composed of two materials of every description; but

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

The composite felt suspender-end hereinbefore described, composed of felt, combined with a strengthening-material, the same being a new article of manufacture.

In testimony whereof, I have hereto set my hand, this 9th day of June, A. D. 1869.

T. J. FLAGG.

Witnesses:

F. C. JONES,
H. CRAWFORD.