O. KLEINBERGER.

Material for Suspender Straps or Ends.

No. 225,145. Patented Mar. 2, 1880.

Fig. 1.

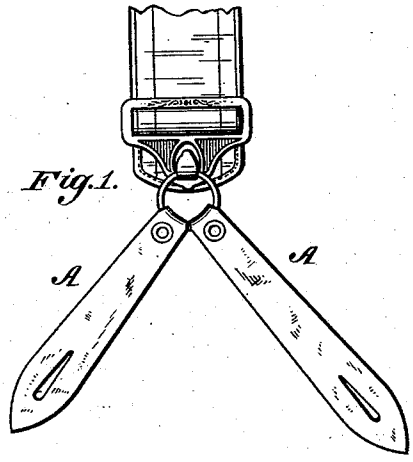


Fig. 2.

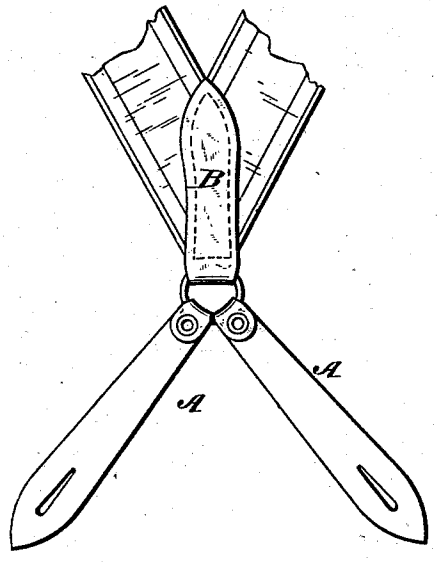
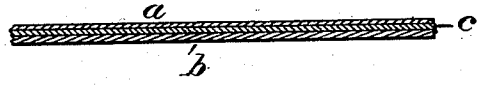


Fig. 3.



WITNESSES:

Donn J. Twitchell

C. Sedgwick

INVENTOR:

O. Kleinberger

BY Munn & Co

ATTORNEYS.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

OSCAR KLEINBERGER, OF NEW YORK, N. Y.

MATERIAL FOR SUSPENDER STRAPS OR ENDS.

SPECIFICATION forming part of Letters Patent No. 225,145, dated March 2, 1880.

Application filed December 8, 1879.

To all whom it may concern:

Be it known that I, OSCAR KLEINBERGER, of the city, county, and State of New York, have invented a new and Improved Material for Suspender Straps or Ends, of which the following is a specification.

The object of my invention is to furnish a material as a substitute for leather for suspender straps or ends, which material shall be strong, flexible, and ornamental, and much cheaper than leather, which is generally used for the purpose.

The invention consists in a material made of duck, muslin, or other woven fabric, faced with oil-cloth, the two being attached together, with or without a filler, in a solid compact sheet, from which the ends and other portions are afterward cut.

In carrying out my invention I make use of heavy duck, muslin, or other woven fabric, and light oil-cloth, which has a body of thin muslin, and may be ornamented as desired. For a filling, when a heavier material is required, I use paper or coarse cloth. These materials are laid together in sheets, attached by glue or other adhesive substance, and formed into a solid compact sheet by pressure applied by rollers or otherwise. The duck or muslin forms the back of the sheet and the oil-cloth the face. From this sheet the suspender ends, tips, backs, &c., are cut and attached to the suspender in the usual manner.

This material is strong and durable, and has the required flexibility and other characteristics of leather necessary for the purpose, while being much cheaper than leather.

The face of the material is ornamental, and in that respect is better than leather.

In the accompanying drawings, Figure 1 is an elevation of front suspender-ends such as the material is used for. Fig. 2 shows back ends. Fig. 3 is a section of the material.

Similar letters of reference indicate corresponding parts.

A A are the ends, and B is the back-piece, uniting the back part of the suspenders. These are cut from the material prepared as described, *a* being the back, of woven material, *b* the oil-cloth face, and *c* the filling.

When woven ends are used for the suspender the union-piece uniting them to the suspender may also be of this material.

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

1. An improved fabric for suspender straps or ends made of a layer of oil-cloth and a layer of woven material, with or without an intermediate filling, united by a suitable adhesive substance, all substantially as shown and described.

2. Suspender straps or ends made from material consisting of woven fabric and oil-cloth united by some adhesive substance, all substantially as specified.

OSCAR KLEINBERGER.

Witnesses:
GEO. D. WALKER,
C. SEDGWICK.