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S. H. LIFTON

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LEATHER COMPOSITION

Filed Dec. 20, 1927

Fig. 1.

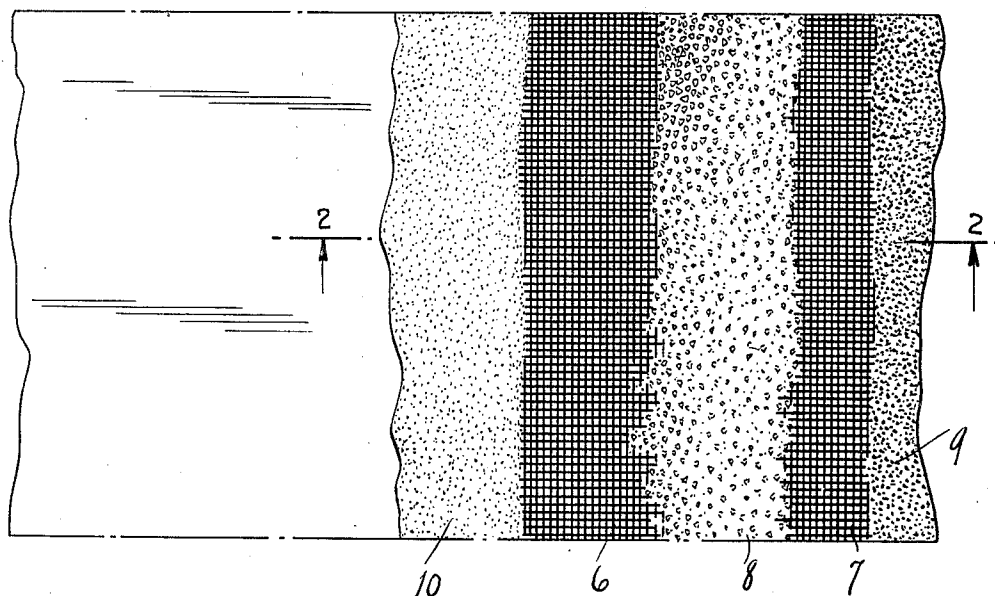
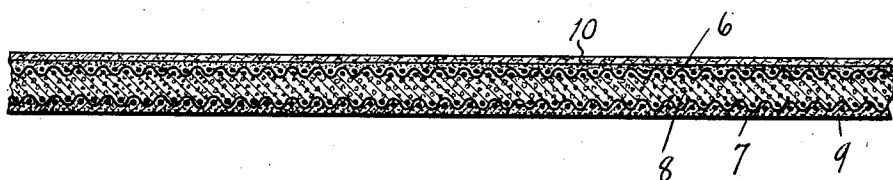


Fig. 2.



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LEATHER COMPOSITION

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This invention relates to leather compositions and more particularly to the art of manufacturing leather stock which will be strong and durable, pliable, not likely to crack and capable of use in the various trades.

One of the objects of my invention is to produce a leather stock composition of any desired weight having many of the properties of pure leather in that it will not crack or split across the grain, presenting all the outside appearances of pure leather when tanned, and which is capable of being manufactured at comparatively low cost in any desired dimensions, colors or shades.

A further object of my invention is to produce a leather stock composition which will not deteriorate under unfavorable temperature conditions, possessing strong wearing qualities, capable of being cut and worked according to patterns in the different arts, and possessing physical properties whereby it may be employed in place of leather substitutes.

To enable others skilled in the art to more fully comprehend the underlying features of my invention, that the same may be embodied in the practical use and for the purposes intended, reference is had to the accompanying drawing forming a part of the specification in which:—

Fig. 1 is a view showing the composition.

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1.

Referring now to the drawings wherein like reference numerals designate corresponding materials entering into the manufacture of the composition as illustrated, the product and its physical properties may be best understood by one of the many methods or processes employed in its manufacture. I first employ a finely woven top and bottom cotton sheeting, drill, gauze or canvas 6, 7 of any desirable length or width for retaining a filler 8 which constitutes the body of the stock. The filler may be of any desired thickness and consists preferably of linoleum, ground cork, finely divided leather waste or its equivalent. A binder for the filler is preferably a non-drying oil such as linseed oil, glycerine or other non-oxidizing

agent which is mixed with the filler to produce a semi-plastic mass. The filler is impregnated in the top and bottom sheeting under considerable pressure so that the plastic material enters and passes through the interstices. The sheeting thus holds the filler and being in a semi-plastic state is very pliable, does not crack or split when rolled. A thin layer of finely divided pulverized cork is then applied by pressure to the surface of the bottom sheeting 7 to give the required finished appearance to the back of the composition. To the top sheeting 6, a layer of thin leather 10 is cemented thereto, sufficient uniform pressure being applied so that it binds not only with the sheeting but also with the filler. When thus completed, the edge of the composition may be colored, waxed, polished and burnished if so desired, ready for use in the various arts.

It should be pointed out that the completed product or composition is not to be regarded as a leather substitute. In fact its appearance and feel, even to the inexperienced clearly indicates that it is not a leather substitute. In a certain sense, the composition consists of a body or backing for light weight or thin sheet leather which of itself cannot be employed in many arts. The body or backing which consists of the filler and the top and bottom fabric is capable of being produced in any desired thickness depending upon the amount of filler and pressure applied during the process of manufacture. Consequently various grades or weights of the stock may be produced for the purposes desired. The stock will not tear or rip and will stand considerable wear before the layers may be penetrated. The cost of manufacture being considerably cheaper than pure leather and since it possesses in addition to the above physical characteristics, the appearance of quality, the composition has been found to be a commercial necessity in the reduction of manufacturing costs of various articles of merchandise in which it is employed.

While I have illustrated and described my invention with some degree of particularity, I realize that in practice various alterations therein may be made. I therefore reserve the

right and privilege of changing the form of the details of construction or otherwise altering the arrangement of the correlated parts without departing from the spirit of the invention or the scope of the subject matter being claimed.

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

- 10 1. A leather composition consisting of a top and bottom fabric having a semi-plastic filler therebetween, granular material applied to the face of the bottom fabric and a layer of thin leather cemented to the top fabric.
- 15 2. A leather composition consisting of a top and bottom fabric having a linoleum filler therebetween, granular material applied to the face of the bottom fabric and a layer of thin leather cemented to the top fabric.
- 20 3. A leather composition consisting of a top and bottom fabric having a non-drying filler therebetween impregnating said fabric, granular material applied to the face of the bottom fabric and a layer of thin leather cemented to the top fabric.
- 25 4. A leather composition consisting of a top and bottom, finely woven fabric, a non-drying linoleum filler therebetween impregnating said fabric, a layer of granular cork applied to the face of the bottom fabric and a layer of thin leather cemented to the top fabric.
- 30 5. A leather composition consisting of a top and bottom, finely woven fabric which may be drilling, gauze, cotton sheeting or their equivalent, a linoleum filler having a non-drying binder which may be linseed oil impregnated in said woven fabric, a layer of granular cork applied to the face of the bottom fabric and a layer of thin leather cemented to the top fabric.
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In testimony whereof I affix my signature.
SAMUEL H. LIFTON.

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