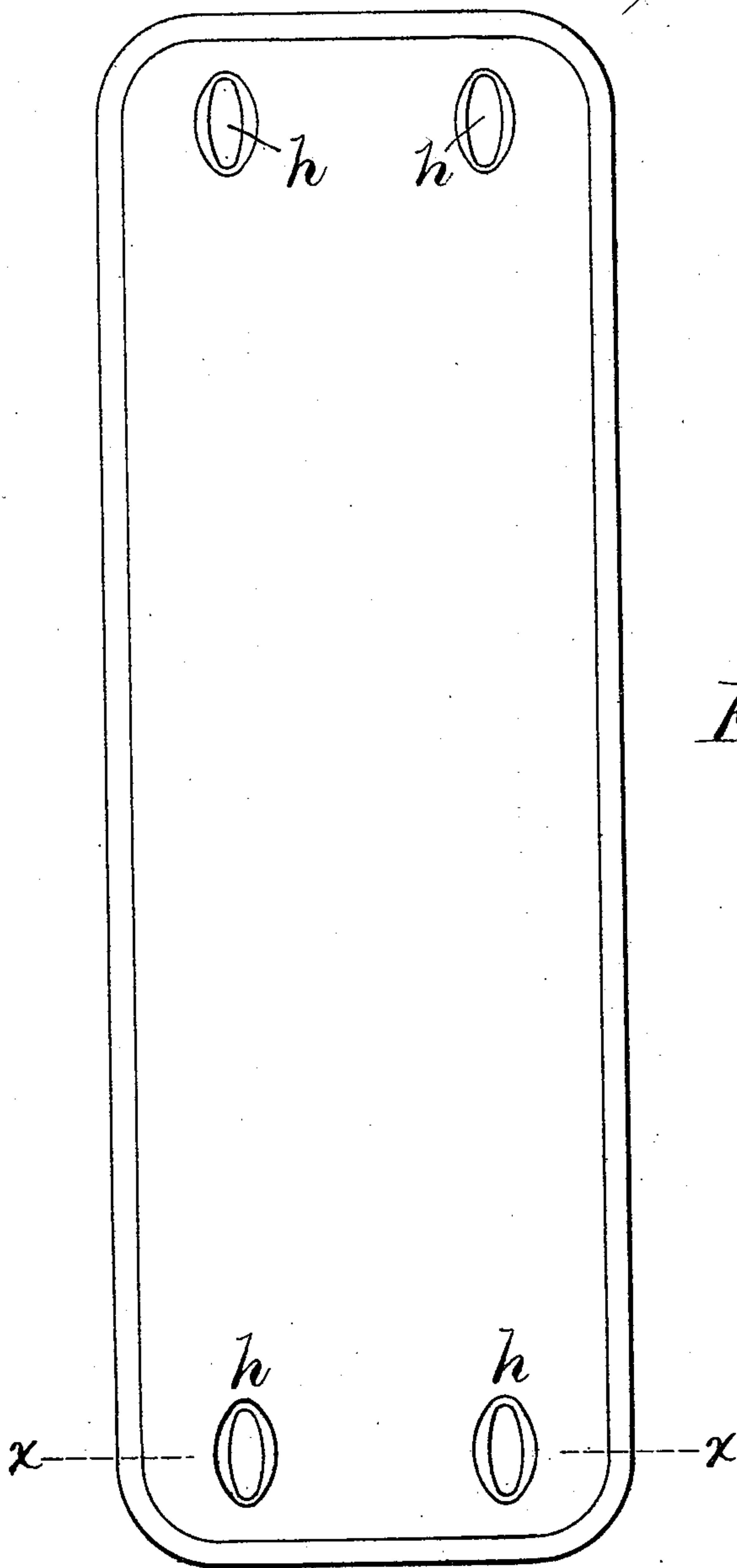


(No Model.)

J. W. HYATT.  
COLLAR OR CUFF.

No. 419,263.

Patented Jan. 14, 1890.



*Fig. 1.*



*Fig. 2.*

*Attest:*  
*L. Lee.*  
*F. C. Fischer.*

*Inventor.*  
*John W. Hyatt, per*  
*Crane & Miller, atty.*

# UNITED STATES PATENT OFFICE.

JOHN W. HYATT, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE CELLULOID MANUFACTURING COMPANY, OF NEW YORK, N. Y.

## COLLAR OR CUFF.

SPECIFICATION forming part of Letters Patent No. 419,263, dated January 14, 1890.

Application filed November 13, 1888. Renewed December 18, 1889. Serial No. 334,145. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN W. HYATT, a citizen of the United States, residing at Newark, in Essex county, New Jersey, have invented certain new and useful Improvements in Composite Collars and Cuffs, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

The object of this invention is to furnish a collar or cuff that has a greater elasticity than one composed wholly of textile fabrics, and provided with a water-proof and dirt-resisting surface and a woven grain of textile fabric upon its exterior, so as to imitate closely a starched linen article.

The invention consists in an imitation of starched linen collars and cuffs, consisting in two layers of textile fabric having an outer surface grained like starched linen, an intermediate stiffener of wood veneer cemented between the same, and a coating of water-proof varnish upon the whole exterior of the article to present a dirt and moisture resisting medium. In this composite article the sole function of the wood is to impart elasticity to the product, while the textile fabric presents the desired woven grain upon the surface, and the water-proof varnish affords the dirt and moisture resisting medium. The article is thus adapted for cleansing by a sponge with soap and water, and possesses the advantages of a celluloid collar or cuff at a small fraction of the cost.

Heretofore collars and cuffs have been formed of india-rubber and enameled cloth, and by various combinations of paper and woven fabrics of vegetable fiber; but such constructions have been deficient in elasticity and durability if made of cheap materials, or have been very expensive if formed of elastic materials, and adapted, like celluloid collars and cuffs, for cleansing with soap and water by the application of a brush or sponge.

The object of my present invention is to furnish an exceedingly cheap collar and cuff having a water-proof surface and an elastic body adapted to retain its shape and appearance for a long time. I secure the desired elasticity and durability in the article by forming the body of the same of a layer of thin split wood or veneer, preferably using

for such purpose a bass-wood veneer about a hundredth of an inch in thickness. I secure the desired surface by cementing to each of the opposite sides of the veneer a layer of textile fabric, preferably fine muslin or linen, and I impart the desired water-proof quality to the same by coating the surface of such fabric with pyroxyline varnish or its equivalent. The wood veneer is preferably cut into blanks of suitable size and shape to form the desired article, as a collar or cuff, and the muslin is made large enough to fold over the edges of the same when cemented thereon, for the double purpose of concealing the edge of the veneer and for thickening the edge of the article in imitation of a hem.

To avoid the cracking and injury to the veneer which would result from the frequent handling of the same if the veneer were first formed in large sheets and then cut into the desired blanks, the blanks are preferably cut from a block of the exact shape required. The blanks then require nothing but the necessary treatment and application of the woven fabric to convert them at once into the finished article.

The invention will be understood by reference to the annexed drawings, in which Figure 1 is a diagram of a cuff with four button-holes. Fig. 2 is a transverse section through two of the button-holes on line *x x* in Fig. 1, with the proportions exaggerated to clearly show the different layers.

The grain of the wood in the veneer blanks would be preferably extended lengthwise of the blank, so as to impart its elasticity in the direction in which the collar or cuff would be bent when in use.

*e* represents in section the veneer blank, covered upon opposite sides by muslin coatings *f* and *g*. One of the coatings, as *g*, would be formed of the same size as the veneer blank, and the other coating *f* would be made sufficiently large to turn over the edges of the cuff and cement upon the opposite side of the same, thereby thickening the edge in imitation of a sewed hem.

The veneer blank is preferably, before the woven fabric is applied to its surfaces, coated with a waterproofing material, as dammar, copal, or pyroxyline varnish, mixed with zinc oxide or other white earthy material to



protect it from moisture and to impart to the finished article the desired color.

I am aware that wall-paper of wooden veneers has been strengthened by a lining of cloth or paper, and cuffs have been made of wood veneers by varnishing the veneer in some cases and lining it with calico or paper in other cases. In all such cases the grain of the wooden surface was the object exposed, and the sole function of the wood veneer was to exhibit such natural grain to the eye.

In my invention the wood performs a wholly different function, being made exclusively to impart elasticity to the product, and it is therefore studiously concealed, and if the outer woven fabric is not thick enough to hide it entirely a composition of suitable color is applied between the veneer and the fabric to effect such concealment. I therefore disclaim the constructions referred to.

I have claimed herein an intermediate stiffener formed of wood veneer only; but I have in another application, Serial No. 290,674, filed November 13, 1888, claimed a stiffener or water-proof body made of any fibrous material, and I therefore disclaim herein the matter described and claimed in my said application, Serial No. 290,674.

Having thus set forth my invention, what I claim is—

1. An imitation of starched linen collars and cuffs, consisting in two layers of textile fabric having an outer surface grained like starched linen, an intermediate stiffener of wood veneer cemented between the same, and a coating of water-proof varnish upon the whole exterior of the article to present a dirt and moisture resisting medium, substantially as herein set forth.

2. An imitation of starched linen collars and cuffs, consisting in two layers of textile fabric coated upon their outer sides with water-proof varnish, an intermediate stiffener of wood veneer cemented to the inner sides of the said fabrics, and a composition applied between the veneer and the fabrics to conceal the color of the veneer, as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JOHN W. HYATT.

Witnesses:

L. LEE,  
THOS. S. CRANE.