April 19, 1938. S. DORÉE 2,114,337

DISPLAY DEVICE AND METHOD FOR MAKING THE SAME

Filed April 15, 1936 2 Sheets-Sheet 1

Fig. 1.

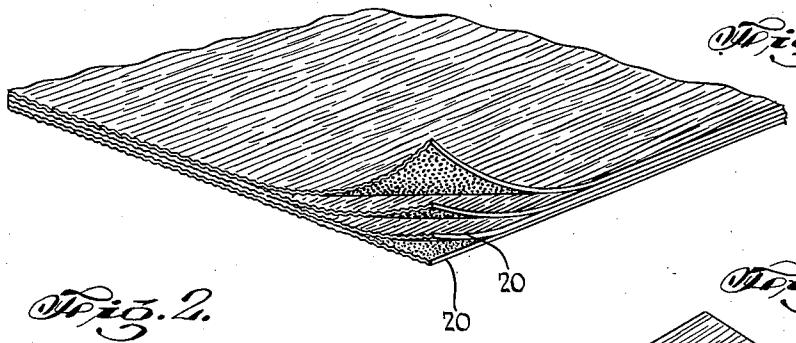


Fig. 2.

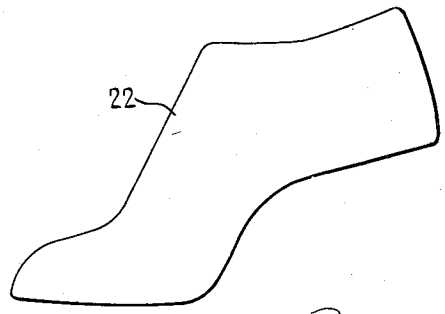


Fig. 3.

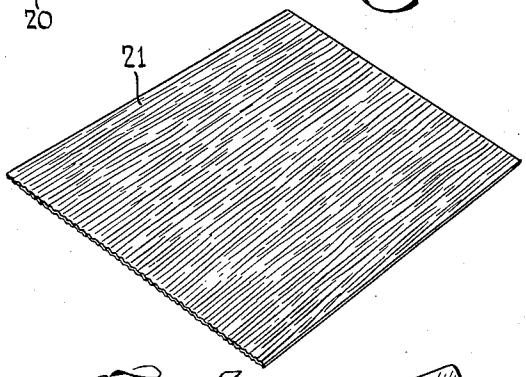


Fig. 5.

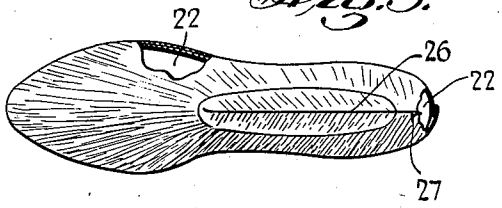


Fig. 7.

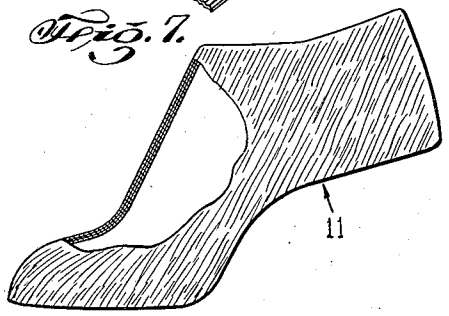


Fig. 4.

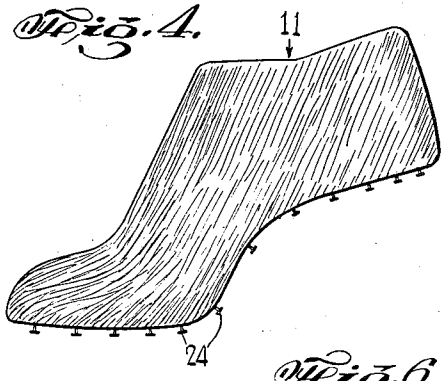


Fig. 8.

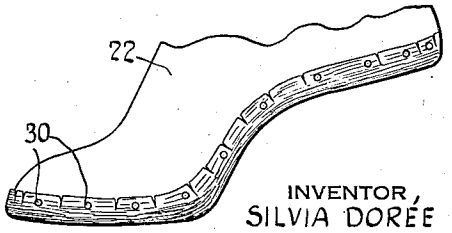
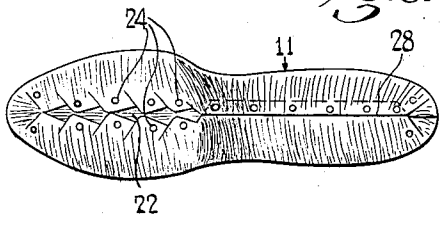


Fig. 6.



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April 19, 1938. S. DORÉE 2,114,337

DISPLAY DEVICE AND METHOD FOR MAKING THE SAME

Filed April 15, 1936 2 Sheets-Sheet 2

Fig. 9.

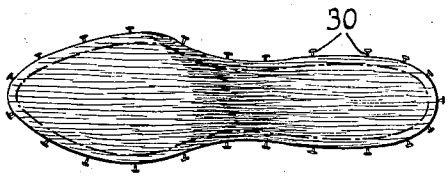


Fig. 10.

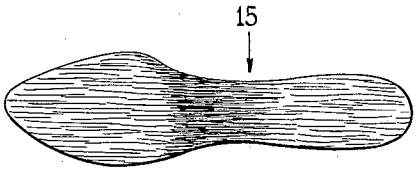


Fig. 11.



Fig. 13.

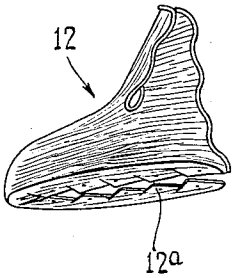


Fig. 12.



Fig. 14.

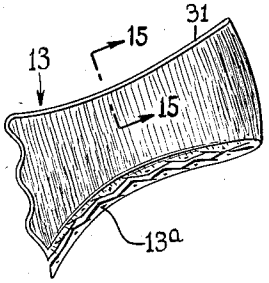


Fig. 16.

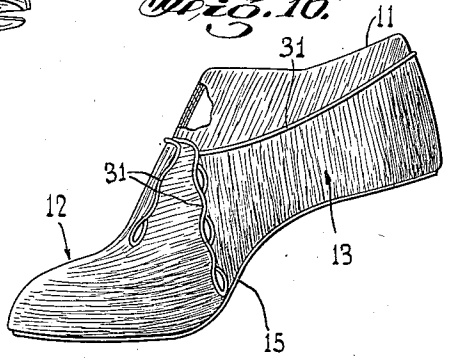


Fig. 15.

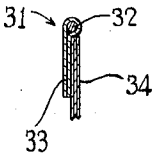


Fig. 17.

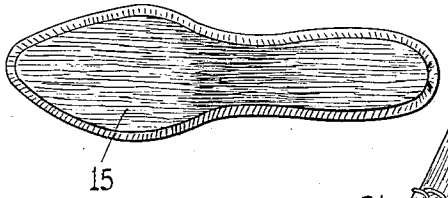
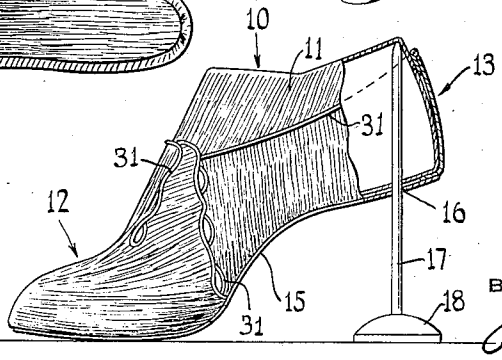


Fig. 18.



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Patented Apr. 19, 1938

2,114,337

UNITED STATES PATENT OFFICE

2,114,337

DISPLAY DEVICE AND METHOD FOR MAKING THE SAME

Silvia Dorée, New York, N. Y.

Application April 15, 1936, Serial No. 74,414

17 Claims. (Cl. 40—126)

This invention relates to display devices and methods of making the same. It is particularly directed to displays simulating shoe models or other articles of various design.

An object of this invention is to provide an article of the character described which shall be inexpensive in construction, attractive in appearance and simple to fashion, and yet be practical to illustrate novel designs of shoes and the like articles.

Another object of this invention is to provide a highly improved process and easily worked medium for making shoe models in a large variety of designs to produce attractive effects and effectively show what the finished shoe will look like.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements and arrangement of parts which will be exemplified in the construction hereinafter described and of which the scope of application will be indicated in the following claims.

Fig. 1 is a perspective view illustrating the method of making a multi-ply sheet, the medium employed in the process involving the invention;

Fig. 2 is a side elevational view of a wood last on which the hollow last, the outer sole and other shoe part simulating portions are made;

Fig. 3 is a perspective view of a sheet of the multi-ply material used in making the hollow last, the vamp, quarter and other parts of the body of the shoe display, and the sole;

Fig. 4 is a side elevational view of a wood shoe last with the hollow last thereon;

Fig. 5 is a top plan view of the device shown in Fig. 4;

Fig. 6 is a bottom plan view of the device shown in Fig. 4;

Fig. 7 is a side elevational view of the finished hollow last removed from the wood last;

Fig. 8 is a side elevational view illustrating the method of making the sole simulating member for my improved display;

Fig. 9 is a bottom plan view of the structure of Fig. 8;

Fig. 10 is a bottom plan view of the sole simulating member;

Fig. 11 is a perspective view of a piece of twisted crepe paper cord used in making piping for my display device;

Fig. 12 is a perspective view of a piece of piping;

Fig. 13 is a perspective view of a vamp simulating piece;

Fig. 14 is a perspective view of a quarter simulating piece;

Fig. 15 is a cross-sectional view taken on line 15—15 of Fig. 14;

Fig. 16 is a side elevational view of the vamp, quarter and sole simulating parts applied to the hollow last;

Fig. 17 is a bottom plan view of the device shown in Fig. 16; and

Fig. 18 is a side elevational view of a display device embodying the invention, with parts broken away and in cross-section.

Referring now in detail to the drawings, and particularly to Fig. 18 thereof, 10 designates a display device embodying the invention. The same comprises a hollow last 11, a vamp simulating portion 12 and a quarter simulating portion 13 on the last 11, and an outer sole simulating portion 15 on the underside of the device. Said outer sole portion has an opening 16 through which extends a peg 17 having a base 18. The upper end of said peg may contact a portion of the hollow last. The peg supports the display device in the position it would be supported by the heel of a shoe.

Said display device is preferably made in the following manner: A plurality of superimposed sheets 20 of crepe paper are pasted together by a wet paste. Any suitable number of sheets may be used depending upon the strength desired in the final sheet. The grain should run in the same direction in all the sheets. After pasting together, the sheets are pressed lightly to form a single multi-ply sheet 21. Such a sheet, in various colors, is used to make the hollow last 11, the vamp and quarter simulating portions 12, 13 and outer sole portion 15.

The method of forming the hollow last will be first described. A sheet 21 is placed over a wood shoe last 22 with the grain running up and down at an inclination while said sheet is still wet, and stretched or fashioned over the wood last to take the shape thereof. The sheet is pulled around the bottom of the last inwardly from opposite sides and tacked thereto as by tacks 24. The hollow last 11 formed on the wood last is preferably split at the top 26, rear 27 and bottom 28, the edges of the sheet 21 being cut, rolled inwardly and overlapped at the split. The meeting edges are not attached together, except by the tacks 24 at the bottom. The multi-ply sheet 21 will stretch, when still wet, in a direction transverse to the grain, and may be readily fashioned with the fingers or by tools to take the desired shape of the wood last or other object on which the paper is

worked. After the hollow last 11 has dried, the tacks 24 are removed and said last is opened at the split rear sufficiently to permit removal of the wood last. The hollow last is then closed to assume its original shape, and the overlapping meeting edges at the split pasted together to provide the finished hollow last.

The method of making the outer sole simulating portion 15 will now be described. A sheet of paper 21 while still wet is placed over the bottom or sole of the shoe last, as shown in Fig. 8, with the grain running longitudinally, and stretched thereon and tacked to the sides of the last, all around above the sole, as by tacks 30. The stretched sheet is then allowed to dry and cut along the dot dash line of Fig. 9 to form the finished outer sole 15.

The vamp and quarter simulating portions 12 and 13 are then formed by fashioning sheets of wet multi-ply paper 21 around front and rear parts of a wood last, respectively, with the grain running transversely to the direction of stretching. As shown in Figs. 13 and 14, the grain of the vamp portion is longitudinal or inclined, whereas the quarter which is stretched around the rear of the wood last, has the grain up and down. In making these vamp and quarter portions, the paper is also stretched around the bottom of the shoe last and tacked thereto. Said portions after being fashioned on the last are trimmed or cut to the desired outline depending on the design of the shoe which the display device is to simulate.

Piping 31 may be applied to the vamp and quarter portions along the edges. The piping may be made by twisting a piece of crepe paper into a cord as shown at 32 in Fig. 11 and folding longitudinally over said cord, a ribbon of crepe paper, the folded portions 33 being pasted together, as shown in Fig. 12. The folded and pasted together edges may then be glued to the inner surface of the edges 34 of the vamp or quarter portions.

Any suitable ornamentation may be placed on the vamp or quarter portions, made of crepe paper or other material to represent bows or other design elements of a shoe. Strips of multi-ply crepe paper, representing straps, may be threaded to a buckle or clasp, thus giving the appearance of a real shoe and showing up the design of the shoe in a practical and effective manner.

Although the drawings show the upper of the display device as being composed of a vamp and quarter portion, it will be understood that there may be provided any number of shoe upper simulating portions made of crepe paper and fashioned on different parts of a wood shoe last and cut to the desired configuration to give the shape and outline of a part of a finished shoe. The shoe upper simulating parts are preferably not attached together on the wood last, so that they may be removed after being shaped and dried.

After the vamp and quarter portions (or other body portions, if any) are made and dried, the same are removed and placed on the hollow last 11 in the same relative positions, as they were on the wood last. Said body portions are pasted to the hollow last to stay thereon.

The outer sole is then pasted to the underside of the hollow last after the portions 12, 13 are placed thereon.

The opening 16 is then formed in the outer sole and the peg 17 pushed through. Since the display device is very light, the friction between the peg and edge of the opening will be sufficient to support the device. However, the peg may be of sufficient length to contact the inner surface of the hollow last, as shown in Fig. 18.

A heel of crepe paper formed by shaping moist multi-ply crepe paper around a shoe heel may be pasted to the outer sole to provide a hollow heel support therefor and thus replace the peg 17.

If desired, the hollow last may be omitted and the parts 12, 13 or other body parts assembled with an outer sole and an inner sole. The inner sole is made substantially like the outer sole. The inner edges 12*a* and 13*a* of the sole and quarter portions would be pasted between said inner and outer soles to make a shoe display device wherein the inside would be substantially exposed as well as the outside.

Although my invention has been illustrated as a shoe display device, it will be understood that designs of other articles, such as ladies' hand bags, may be carried out in accordance with my improved process and through the medium of the multi-ply crepe paper.

Furthermore, "cellophane" coated with a cement which renders it stretchable may be used for my purpose either in single sheets or superimposed sheets adhered together forming a multi-ply sheet capable of shaping and stretching for the purpose of making display devices such as described above.

Other stretchable sheet material which can be shaped or fashioned on a form may be substituted for crepe paper.

The shoe simulating portions furthermore may be coated with shellac, lacquer, or varnish to give the glossy appearance of patent leather.

It will now be understood that the shoe simulating device may be easily and cheaply made and will give an accurate idea of what the finished shoe will look like.

My improved process renders it unnecessary to construct uppers of leather while producing substantially the same results from the view point of styling shoe designs.

When the model is completed and a pattern has to be made from the same model for the purpose of making an actual shoe, the parts 12, 13 can be removed from the hollow last and put in water. This will make them flat to permit cutting or drawing around them to obtain the outline of the pattern which may be used for cutting the leather, cloth or other material used in making the actual shoe.

The wet part may then be put back on the hollow last and permitted to dry and harden in its original shape.

A binding edge may be used instead of or in addition to the piping 31. The binding edge comprises an elongated folded strip of the multi-ply paper or other sheet material folded over an edge of the shoe upper simulating part and adhered thereto by paste or in any other suitable manner.

It will thus be seen that there is provided a device and method in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiments above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawings is to be interpreted as illustrative and not in a limiting sense.

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

1. A process of the character described consisting in pasting together with a wet paste, a plurality of superimposed sheets of crepe paper, with the grain running in the same direction to form a multi-ply sheet and shaping said sheet while wet, on the surface of a form object, whereby said sheet assumes the shape of said surface and then permitting said shaped sheet to dry.

2. A process of the character described consisting in pasting together with wet paste, a plurality of superimposed sheets of crepe paper, with the grain running in the same direction to form a multi-ply sheet, shaping said sheet while wet, on the surface of a firm object, whereby said sheet assumes the shape of said surface, cutting said shaped sheet to a desired outline, and permitting said shaped sheet to dry.

3. A process of the character described consisting in pasting together a plurality of superimposed sheets of crepe paper, with the grain running in the same direction to form a multi-ply sheet, shaping said sheet on the surface of a firm object, whereby said sheet assumes the shape of said surface, cutting said shaped sheet to a desired outline, and attaching a piping to the edge of said shaped and cut sheet.

4. A display device comprising a hollow last made of crepe paper, preshaped members simulating parts of a shoe upper and made of crepe paper on said hollow last, and an outer sole simulating member attached to the underside of said device.

5. A display device comprising a hollow last made of crepe paper, preshaped members simulating parts of a shoe upper and made of crepe paper on said hollow last, an outer sole simulating member attached to the underside of said device, and means for supporting said device with the heel portion thereof in a lifted position.

6. A display device comprising a hollow last made of crepe paper, preshaped members simulating parts of a shoe upper and made of crepe paper on said hollow last, an outer sole simulating member attached to the underside of said device, and means for supporting said device with the heel portion thereof in a lifted position, said means comprising a peg piercing said sole simulating member.

7. A process of the character described consisting in forming a hollow last of crepe paper by shaping said paper while wet around a shoe last, then removing said hollow last from said shoe last; stretching a sheet of crepe paper around the underside of a shoe last and cutting out a portion thereof to simulate the outer sole of a shoe; forming members simulating portions of a shoe upper by fashioning wet crepe paper on different portions of a shoe last and cutting to the desired outline; removing said shoe upper simulating portions from said shoe last and placing the same on said hollow last, and then adhering said outer sole simulating member to the underside of said shoe upper simulating portions.

8. A process of the character described consisting in forming members simulating portions of a shoe upper by fashioning wet pieces of sheet material having the outlines of said portions on different parts of a shoe last, removing said shoe upper simulating members from said shoe last and placing the same on a hollow last in the same relative positions as on said shoe last, and adhering said shoe upper simulating members to said hollow last in said relative positions.

9. A process of making a hollow last consisting in fashioning and stretching a sheet of crepe paper around a wood shoe last while the crepe paper is wet and forming the fashioned paper with a split, permitting the paper to dry, and then opening up the fashioned paper at the split and removing the wood last and then gluing together the split edges of the fashioned paper.

10. A display device comprising a hollow last, and a plurality of members simulating different parts of a shoe upper, on said last, and being made of creped material and each having the outline and contour of a portion of a shoe upper.

11. A process of the character described consisting in forming a plurality of multi-ply sheets of creped paper each by pasting together with a wet paste, a plurality of superimposed sheets of creped paper, all having the grain running in the same direction, then fashioning said multi-ply sheets on different adjacent parts of the surface of a firm object to assume the shapes of said parts of said surface, allowing said shaped sheets to dry, so that said shaped sheets may maintain their shapes, then removing said shaped sheets and placing the same in similar relative positions on another object having a surface similar to said parts of said first surface.

12. A display device comprising a hollow supporting member made of crepe paper, and a plurality of preformed members of different shapes, made of crepe paper, assembled together on said supporting member and collectively having the shape of said supporting member, and each covering a different part of said supporting member, to form a composite design.

13. A process of the character described consisting in pasting together a plurality of superimposed sheets of crepe paper, with the grain running in the same direction to form a multi-ply sheet, shaping said sheet on the surface of a firm object, whereby said sheet assumes the shape of said surface, and cutting said shaped sheet to a desired outline, permitting said shaped and cut sheet to dry so that the same may retain its shape, then moistening said dried sheet and flattening out, whereby the same may be used for cutting a pattern for a shoe part.

14. A process of the character described consisting in shaping while wet, a flat sheet which is stretchable while wet, on a surface so that said sheet assumes the shape of said surface, and drying said shaped sheet to retain its shape, then again wetting said shaped sheet and flattening the same out on another sheet and obtaining the outline of the flattened sheet on said second sheet to provide a pattern.

15. A display device comprising a hollow last, and a plurality of members simulating different parts of a shoe upper, on said last, and being made of creped material and each having the outline and contour of a portion of a shoe upper, said last being made of creped material.

16. A process of the character described consisting in forming a hollow last by shaping a wet piece of sheet material around a shoe last, then removing said hollow last from said shoe last, then forming members simulating portions of a shoe upper by fashioning wet pieces of sheet material on different parts of a shoe last, removing said shoe upper simulating members from said shoe last and placing the same on said hollow last in the same relative positions as on said

shoe last, and adhering said shoe upper simulating members to said hollow last in said relative positions.

17. A process of making a hollow last consisting in fashioning and stretching a sheet of crepe paper around a wood shoe last while the crepe paper is wet and forming the fashioned paper with a split, permitting the paper to dry, and then opening up the fashioned paper at the split and removing the wood last and then attaching together the split edges of the fashioned paper, then forming members simulating parts of a shoe upper by fashioning wet glued paper on different parts of a shoe last and cutting to the desired outline, removing said shoe upper simulating parts from said shoe last and placing the same on said hollow last in the same relative positions as on said shoe last, and adhering said shoe upper simulating parts to said hollow last in said relative positions.

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