

G. REIS.
FILLER FORM FOR EMBROIDERY.
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1,063,734.

Patented June 3, 1913.

Fig. 1,

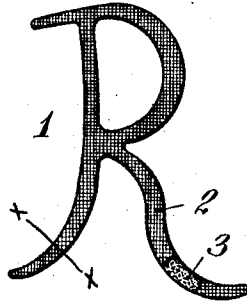


Fig. 2,



Fig. 3,

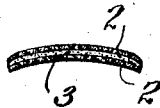
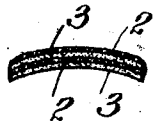


Fig. 4,



WITNESSES

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FILLER-FORM FOR EMBROIDERY.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GUSTAV REIS, a subject of the Emperor of Germany, and a resident of Fürth, Bavaria, German Empire, have invented a new and useful Improvement in Filler-Forms for Embroidery, of which the following is a specification.

My invention relates to filler-forms for embroidery, and more particularly to washable filler-forms.

The object of the invention is to provide a filler-form which will present a comparatively firm surface substantially unyieldable to the pressure of the embroidery threads during the process of embroidering so that the form will retain its shape and outline while the embroidering is being done, so as to insure smooth, even work, and which will be flexible and will not readily break or disintegrate and come through the embroidery threads when repeatedly laundered.

Heretofore, filler-forms for embroidery have been made from sheets of compressed cellulose or disintegrated wood pulp, the forms being cut out or stamped up from the sheets, but such forms have been found to break after being laundered; and besides this, they gradually disintegrate and come through the embroidery threads as a result of being laundered.

It is the purpose of my invention to overcome this difficulty, and the invention consists in providing a filler-form comprising united one or more layers of textile fabric and one or more layers of material which will give the form shape-retaining qualities or firmness for the purposes of embroidery, such material, for example, as compact, unwoven, fibrous material, digested wood pulp or other forms of cellulose, compressed. The fabric may be any suitable textile material, or such as has crossing interlocked threads, and the shape-retaining constituent of the filler-form may be any form of cellulose or its equivalent compressed into a substantially firm, flexible, shape-retaining layer for the purposes desired.

In the preferred form of my invention, the textile fabric is used as the top layer, since it is then more effective in preventing the cellulose from disintegrating and finding its way through the embroidery threads and in holding the cellulose layer from breaking; and it further gives the filler-form the

appearance of cloth, which is of a better color and finish than paper in case the filler-form should show through the embroidery threads. For the better quality of filler-forms for certain classes of embroidery, it is preferable to have a layer of textile material as the top and bottom layer of the form.

Referring to the drawings forming a part of this specification, Figure 1 shows a filler-form in the shape of a capital letter; Fig. 2 shows an enlarged cross-sectional view of the form on line $x-x$; Fig. 3 is a cross-sectional view of a form having a top and bottom layer of textile fabric and an intermediate layer of cellulose; and Fig. 4 is a cross-sectional view of a form having several alternate layers of fabric and cellulose.

The filler-form 1 comprises a top layer 2 of textile fabric, preferably white and of fine sharp threads, and a bottom layer 3 of flexible compressed cellulosic material, and it is stamped up or cut out from already prepared sheets. These sheets are preferably formed by taking a sheet of compressed wood pulp (cellulose) or other shape-retaining material, and uniting a sheet of this material to a sheet of textile fabric by a suitable binding or adhesive agent, under compression, and preferably between warm dies. If desired, however, the composite sheet from which the forms are stamped out may be made by forming a layer of the cellulose preferably with a binding agent mixed therein or placed thereon, the cellulose being in a moist state, and then uniting this layer of cellulose with the layer of textile material under compression between warm dies, the layer of textile fabric in this case preferably being of relatively large mesh, the meshes being sufficiently large to permit the cellulose to be forced into it to assist in holding the parts firmly together. Filler-forms stamped from sheets formed in this manner, however, are not as desirable as the forms made from separate finished sheets of textile fabric and cellulose united together. As many of the alternate layers of textile fabric and cellulose may be united as desired, depending upon the thickness of the filler-form wanted.

While I have described my invention in detail with reference to a letter form, obviously the filler-form is equally as useful in

any kind of embroidery, such as embroidering flowers, scallops, etc.

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

1. A washable filler form embodying an embroidery design adapted to be completely covered by embroidery threads and comprising a flexible form layer of unwoven fibrous or cellulosic material united with a protecting layer of textile fabric.

2. A washable filler form embodying an embroidery design adapted to be covered by the embroidery threads and comprising a comparatively stiff, flexible, transversely arched layer of unwoven fibrous or cellulosic material and a textile fabric layer

united to the convex surface of the unwoven layer.

3. A washable filler form embodying an embroidery design adapted to be completely covered by the embroidery threads and comprising a transverse arched non-woven layer of fibrous or cellulosic material, a relatively thin sheet of textile fabric covering the convex surface of said layer, and a binding agent uniting said layer and sheet.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

GUSTAV REIS.

Witnesses:

EDWIN SEGER,

SAMUEL M. WARD, Jr.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."