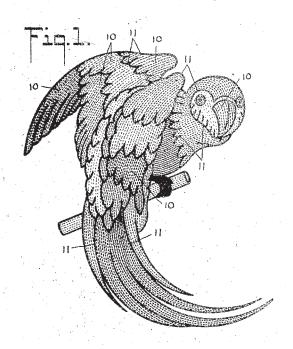
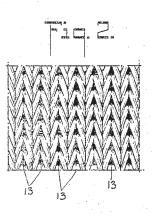
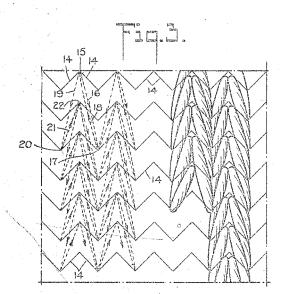
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EMBROIDERY PATTERN AND METHOD OF MAKING THE SAME Filed Jan. 13, 1926







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EMBROIDERY PATTERN AND METHOD OF MAKING THE SAME.

Application filed January 13, 1926. Serial No. 80,925.

of the city of New York, county of New 5 York, and State of New York, have invented certain new and useful Improvements in an Embroidery Pattern and Method of Making the Same, of which the following is a specification.

My present invention relates generally to an embroidery pattern or stitch produced in accordance with a novel method.

It is among the more important objects of 15 the invention to provide an embroidery pattern comprising a plurality of adjacently disposed rows which may be associated with each other along predetermined curves and contours to produce desired designs and

It is a more specific object of the invention to provide a pattern of this nature wherein a resemblance to a chain stitched ornamentation is produced. More particu-25 larly, it is an object of the invention to provide a composite design wherein the stitching is arranged in rows as hereinbefore mentioned, and wherein each row is so constructed as to resemble a chain stitch.

An object of my invention is to produce rows of stitching of this character, having an outward resemblance to a chain stitch, yet constituted of individual stitches which are entirely straight and which may there-35 fore be produced on the well-known Schiffli machines.

Another object is to produce a stitch of this general character wherein the individual stitches are much more closely arranged 40 with respect to each other than would be possible in the case of an ordinary chain stitch, whereby the base material is effectually concealed to a degree far exceeding that which even a tightly arranged chain stitch 40 would produce.

A feature of my invention lies in arranging a series of angular stitches in closely

To all whom it may concern:

Be it known that I, Kurt Lehmann, a tain-correlation to the factors of angularity, citizen of the United States, and a resident spacing, and thread thickness hereinbefore spacing, and thread thickness hereinbefore mentioned whereby the desired effect is produced.

In a preferred embodiment, each angular stitch comprises two sides of equal length, and each side is laid by a stitch which has its origin at the apex of the angle.

The objects generally of my invention 63 embroidery, and has particular reference to are to produce an embroidery pattern which will have wide applicability, particularly in the manufacture of ornamental figures and designs capable of being appliqued, as by sewing or gluing, to a wide variety of 70 articles, to be ornamented, such as lampshades, shawls, scarfs, blankets, dresses, and innumerable others, and to provide a pattern which will be not only inexpensive from the standpoint of manufacture but which 75 will produce an extremely pleasing outward appearance and which will present an exposed surface of a subtantially solid character having improved qualities of firmness and wearability.

For the attainment of the foregoing objects and such other objects as may hereinafter appear or be pointed out, I have illustrated one embodiment of my invention in the accompanying drawings, in which—85

Fig. 1 is a plan view of a figure which is illustrative of the almost unlimited variety of ornamental figures whose production is contemplated by my invention;

Fig. 2 is an enlarged view of a portion 90 of the pattern; and

Fig. 3 is a diagrammatic representation of a preferred method of laying the stitches to produce the pattern.

The illustrative figure shown in Fig. 1 95 comprises a number of adjacently arranged areas 10, each of which is constituted of a plurality of closely adjacent rows of stitching, the rows being arranged along lines and contours which depend upon the representa- 100 tion desired and which enhance the finished appearance of the pattern. Each area is ing not only the closeness, but also the anguby properly designing various areas in difan entirely novel effect is produced of the
character hereinbefore referred to.

Another feature of the invested and the control of the produced. Separating the areas and dispersion of the control of Another feature of the invention lies in generally throughout the figure in accordance laying these stitches in a predetermined se- with requirements, lines 11 of preferably solid 55 quence which not only permits a continuous black are provided, and these lines may be 110

produced in any desired manner, preferably other side of the angle being laid may also of a width substantially less than the width originate at the same starting point. After of the colored rows forming the body of the the second side has been laid, a short condesign, and preferably constituted of a se- necting or positioning stitch is made, ex-5 ries of ordinary transverse stitches closely tending from the free end of the last laid 70 positioned to produce an unbroken line. The utilization of lines 11 is optional, and has no material effect upon the invention other than enhancing the appearance of the 10 finished article and defining boundary lines between areas of different colors.

Each area 10 is constituted of a plurality of adjacently disposed rows 13 (see Fig. 2), each row presenting an outward appearance which resembles a chain stitch, but which is produced by an entirely different method wherein all the stitches are straight lines and wherein the finished result is extremely more uniform and closely arranged than would be the case with a true chain stitch. Reference to Fig. 2 will illustrate this outward resemblance to a chain stitch with to be laid, and that the points 17 and 20 great clearness.

In Fig. 3, I have illustratively and diagrammatically shown how I prefer to produce the effect shown in Fig. 2. In cases where my invention is applied to machine wherein the Schiffli machine is utilized, a pattern or "cartoon" is provided bearing the general configuration and design of the arscale, and bearing also a number of lines and indicia in a predetermined and pre-35 designed arrangement whereby the opera- concealed by the next adjacent interior anthis cartoon as a guide in manipulating the machine. In Fig. 3, I have illustratively shown a portion of the markings of a cartoon of this character, and more particularly, I have shown a portion which may be utilized by an operator in producing that portion of the finished design shown in Fig. 2. For each finished line or row of stitching to be produced on the machine there is provided on the cartoon a row of perimentation and design. I prefer to make these angles substantially rectangular, but angularity and the spacing will depend upon requirements and circumstances and will bear a certain relation to the thickness of thread to be used, size of stitch desired, etc. Each angle has equal sides and in cases where the adjacent rows are straight, Both Fig. 3 and Fig. 2 are somewhat exthe terminal ends of each angle coincide aggerated the latter being approximately with the terminal ends of the angles representing the adjacent row.

of the angles and lays a stitch from that comparison with ordinary chain stitching. point to the terminal end of the next ad- In addition to concealing the base fabric to jacent angle but one. He then lays a re- a greater degree in a longitudinal direction

side to the apex of the next adjacent angle. The process is then repeated, and for purposes of illustration, I have indicated the steps by reference numerals, and assuming that the operator starts at the apex 15, he .75 lays a stitch 16 to the free end 17 of the second adjacent angle; he then lays a return stitch 18 back to the starting point 15; and he then lays a stitch 19 to the terminal end 20 which corresponds to the end 17. A con- 30 necting stitch 21 is then laid to the apex 22 of the next adjacent interior angle on the cartoon, and from the apex 22 as a starting point the steps are repeated.

It will be observed that the apices 15, 85 22, etc., constitute midpoints of the chain constitute advanced points on opposite edges thereof. It will also be observed that the angularity of the finished stitches is sub- 90 stantially smaller than that of the indicating lines upon the cartoon. This exact anguembroidery, and more particularly in cases larity will depend upon the other factors hereinbefore mentioned, and in general, I have found that the spacing and angularlity 95 of the finished stitches must be of such a ticle to be produced on a greatly enlarged character with respect to the thread thickness that the free terminal ends of each laid angular stitch will be covered over and tor may in a predetermined manner utilize gular stitch. It is this concealment and overlapping of the end portions of the angular stitches which produces the effect shown in Fig. 2 and is distinctive of my invention. In this connection, it will be observed that 105 the apparent angularlity of the finished pattern is greater than the actual angularity laid. This may be due to the falling of the apex under the tension of the thread as it is laid, and it may also be due to the 110 overlapping hereinbefore referred to. angles 14 suitably spaced and of suitable will be understood however that this vaangularlity in accordance with previous ex- riance between the apparent angularity produced and the actual angularity laid is a still further factor which must be consid- 115 it will be understood that the particular ered and taken into account in the initial design and lay-out of the cartoon pattern.

In the right half of Fig. 3, I have illustrated the actual stitches laid in accordance with the method diagrammatically illustrated in the left half of the same figure. four times as large as a preferred size of stitch, but the closeness of the stitch will 125 The operator starts at the apex of one be evident, particularly when considered in turn stitch to the starting point so that the with respect to the rows, it is possible ac1,581,986

cording to my method to lay the rows in possible with chain stitching; and accordingly an improved outer surface is produced 5 having greater solidarity, firmness, and wearing qualities. At the same time a novel and distinctive effect is produced which lends itself particularly to the uses of the character illustratively exemplified in Fig. 1.

An important feature of my invention is the laying of stitches in such manner that internesting overlapping angles or V-like or inverted V-like configurations are formed by ing a group of straight stitches along lines the stitching, such angles forming a single delining an angle, then as the next step posi-15 longitudinal internested overlapping row of V-like configurations, the row as a whole stitches along lines defining an angle nest-being laid with the apices of the angles or ing therewithin and causing portions of the V-like configurations substantially along a sides of such nesting angle to overlap porpredetermined line of any chosen configura-20 tion, such row being obviously exactly one angle or one V wide. As many of these rows are laid side by side, or laterally, as the desired pattern requires. It will be apparent that this feature is independent of the in-25 terrelationship of the plurality of laterally laid rows, that is it is independent of whether such laterally laid rows are spaced apart from each other, or whether they touch each other, or whether they overlap each other. However, as a rule it is generally desirable that the single rows are laid so closely to each other as to effectually cover the base fabric, unless it should be desired to have this base fabric show at open 35 spaces. By the expression "one angle wide" such a series of angles as that just described, even though a plurality of such series laid side by side may be present in 10 the pattern.

the details herein described and illustrated for the purpose of explaining the nature of my invention may be made by those skilled in the art without departing from the spirit and scope of the invention as expressed in a chain-like embroidery pattern, which comthe appended claims; and it is therefore intended that these details be interpreted as a stitch from a midpoint of the chain to

illustrative and not in a limiting sense.

I claim:-

positioned to form an exactly one angle wide advanced point on the other edge whereby ing partially but substantially overlapped named point to a midpoint in advance of the by portions of the sides of the next adjaceuf enclosed angle.

60 thread forming a series of groups of purely straight stitches arranged to form nested the steps from said last named starting angles, at least the interior longitudinal half point. of the separated ends of the sides of each angle being overlapped by portions of the a chain-like embroidery pattern, which comsides of the next adjacent enclosed angle.

3. An embroidery article comprising a closer transverse adjacence than would be plurality of adjacent chain-like patterns, each of the latter comprising a series of groups of straight stitches arranged in nested angular positions, each angle having 70 portions of its separated ends overlapped and concealed by portions of the sides of the next adjacent enclosed angle, and each angle comprising a side constituted of at least two superposed stitches.

4. The herein described process of making an embroidery pattern which comprises laytioning and laying a group of straight 80 stitches along lines defining an angle nesttions of the separated ends of its next adjacent enclosing angle, and repeating said 85 steps to produce a pattern simulating a chain.

5. The herein described process of making an embroidery pattern, which comprises laying in succession a series of groups of 90 straight stitches from a single thread to form an exactly one angle wide series of longitudinally nested angles, and causing the sides of each angle to overlap portions of the separated ends of the sides of the en-95 closing angle by suitably correlating the angularity, spacing, and thread thickness of

each angle.

6. The herein described process of making a chain-like embroidery pattern, which 100 occurring in the claims, I mean to define comprises laying a continuous thread to form a stitch from a midpoint of the chain to an advanced point on one edge thereof, laying a return stitch thereover, laying a third stitch to an advanced point on the 105 It will be obvious that various changes in other edge to define an angle, laying a connecting stitch to a midpoint advanced with respect to the first midpoint, and repeating the steps to form a series of nested angles.

7. The herein described process of making 110 prises laying a continuous thread to produce an advanced point on one edge thereof, laying a return stitch thereover to return the 115 1. In an embroidery pattern, a single continuous thread to the midpoint, laying thread forming a series of groups of stitches a third stitch to a similar and symmetrically series of longitudinally nested angles, the an angle having equal sides is produced. separated ends of the sides of each angle be- laying a connecting stitch from the last first midpoint but within the sides of the angle, whereby the second midpoint will 2. In an embroidery pattern, a single constitute a starting point for the laying of a nesting angle, and thereupon repeating 125

> 8. The herein described process of making prises laying a continuous thread to produce 130

a stitch from a midpoint of the chain to an constitute a starting point for the laying of a stitch from a midpoint of the chain to an advanced point on one edge thereof, laying a return stitch thereover to return the continuous thread to the midpoint, laying a third stitch to a similar and symmetrically advanced point on the other edge, whereby an angle having equal sides is produced, laying a connecting stitch from the last named point to a midpoint in advance of the first midpoint but within the sides of the angle, whereby the second midpoint will constitute a starting point for the laying of a nesting angle, thereupon repeating the steps from said last named starting point, and laying each angle so that portions of the sides thereof will overlap portions of the separated ends of the sides of the specification this 12 day of January, 1926.

In witness whereof, I have signed this specification this 12 day of January, 1926.

KURT LEHMANN.