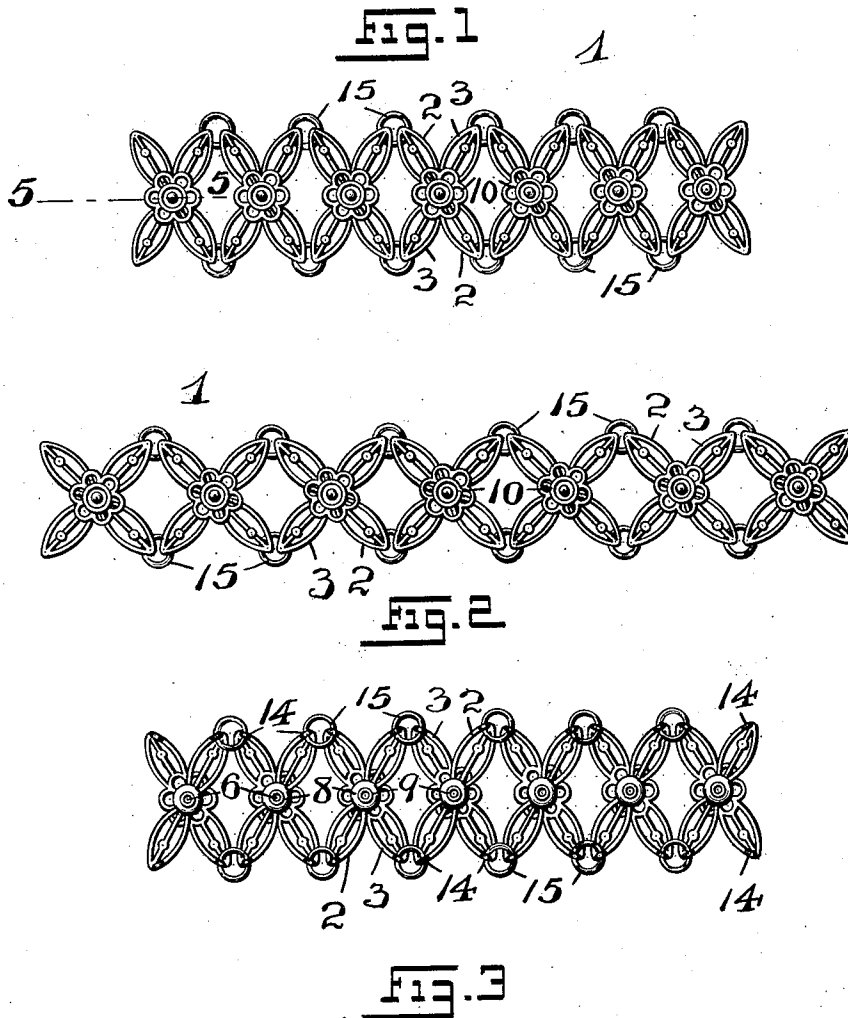


T. ALLSOPP.
MESH FABRIC.
APPLICATION FILED OCT. 30, 1911.

1,024,050.

Patented Apr. 23, 1912.
2 SHEETS—SHEET 1.



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2 SHEETS-SHEET 2.

Fig. 4

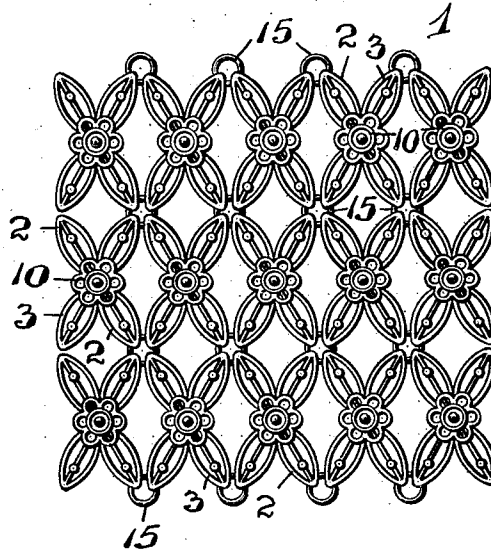


Fig. 5

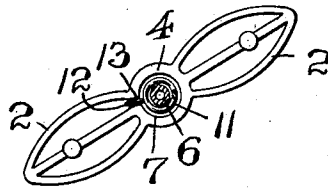
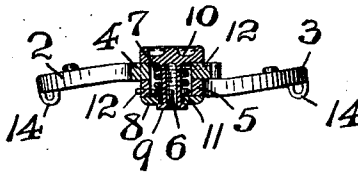


Fig. 6

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UNITED STATES PATENT OFFICE.

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MESH FABRIC.

1,024,050.

Specification of Letters Patent.

Patented Apr. 23, 1912.

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To all whom it may concern:

Be it known that I, THOMAS ALLSOPP, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Mesh Fabrics; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

This invention relates, generally, to improvements in mesh-fabrics; and, the present invention has reference, more particularly, to a novel and ornate mesh-fabric, comprising a series of loosely connected elements which have such a relation to each other that the fabric may be readily stretched without detriment to its utility, and is provided with suitable means, the purpose of which is to return the connected elements of the mesh-fabric automatically to their normal initial positions with relation to each other.

The invention has for its principal object to provide a novel and ornate mesh-fabric of the general character hereinafter more particularly set forth, with a view of providing a fabric which can be readily stretched without destroying the usefulness thereof, and which may be made up into various articles of manufacture, especially bracelets, rings, garters, and the like.

A further object of this invention is to provide a flexible and self-adjustable fabric comprising a series of connected ornamental elements or links, said elements or links being loosely connected and consisting of pivotally mounted and spring-controlled members forming the ornate features of said links, and serving at the same time a double purpose for producing automatically the adjustable relation of said ornamental elements or links with relation to each other.

Other objects of this invention not at this time more particularly enumerated will be clearly understood from the following detailed description of the present invention.

With the various objects of the present invention in view, the said invention consists in the mesh-fabric hereinafter set forth; and, the invention consists, furthermore, in

the novel arrangements and combinations of the several devices and parts, as well as in the details of the construction of the same, all of which will be described more in detail in the following specification, and then finally embodied in the claim which is appended to and which forms an essential part of this specification.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a plan or top view of a single strand of loosely connected ornate elements or links, each element or link comprising a pair of pivotally connected and spring-controlled members, said parts being represented in their normal initial relations to one another; Fig. 2 is a similar view of the same elements or links represented in stretched relations; and Fig. 3 is a back or rear view of the parts represented in said Fig. 1. Fig. 4 is a plan or top view of a mesh-fabric made according to the principles of the present invention, showing in said view a multiplicity of strands, instead of the single strand represented in said Figs. 1, 2 and 3. Fig. 5 is a vertical sectional representation of the pivotally mounted and spring-controlled members of one of the ornate elements or links, said section being taken on line 5—5 in Fig. 1, and said view being made on an enlarged scale; and Fig. 6 is a horizontal sectional representation of the parts represented in said Fig. 5.

Similar characters of reference are employed in all of the above described views, to indicate corresponding parts.

Referring now to the several figures of the drawings, the reference-character 1 indicates the complete mesh-fabric embodying the principles of the present invention, the mesh-fabric comprising a single strand of ornamental and self-adjustable elements or links, substantially as illustrated in Figs. 1, 2 and 3 of the drawings, or a multiplicity of connected strands of such elements or links, as represented in Fig. 4.

Each strand, as has been stated, consists of any desired number of loosely connected and self-adjustable elements or links of any suitable ornamentation, each element or link, as will be evident from an inspection more particularly of Figs. 5 and 6 of the drawings, comprising two ornamental members 2 and 3, the member 2 being provided with a perforated or ring-shaped central

portion, as 4, and the member 3 being likewise provided with a perforated or ring-shaped central portion, as 5. In practice, these perforated or ring-shaped central portions 4 and 5 are rotatably mounted upon each other, and are pivotally and oscillatorily secured together in their operative relation by means of a post 6 having an ornamental head or enlargement, as 10, and the lower end-portion of the post being inserted through a perforated disk or nut 8, to which said end-portion is secured by being riveted thereto, as at 9, or by being secured thereto in any other suitable manner. From an inspection of said Fig. 5 of the drawings, it will be clearly seen, that the said head or enlargement 10 and said disk or nut 8 cause the connected and operative relation of the said members 2 and 3. When the parts have thus been brought into their assembled relations, a suitable chamber, as 7, into and through which the post 6 extends, is provided, the chamber being larger in cross-sectional area than the cross-sectional area of the said post. Within the said chamber 7, and encircling the said post 6, is a coiled spring 11, said spring having its respective end-portions 12 extending into and suitably secured in suitably disposed holes or perforations, as 13, with which the central portions 4 and 5 of the respective members 2 and 3 are provided, as will be clearly evident from an inspection of said Figs. 5 and 6. The purpose of this spring is to return the said members 2 and 3 to their normal initial crossed relations when the connected elements or links are not stretched, or to bring the said connected elements or links into a self-adjusted relation about the arm when the fabric is used as a bracelet, or about the finger when used as a ring, or about the leg when used as a garter, or when used for other purposes where a snug self-adjustment of the mesh fabric is desired. That the several ornamental self-adjustable elements or links may be loosely connected, the said ornamental members 2 and 3 are provided at or near their end-portions with suitably formed eyes or loops, as 14, and

the connecting rings 15; but, it will be clearly evident, that any other suitably constructed and suitably arranged means of connection may be employed.

From the foregoing description of the present invention, it will be seen that I have devised a simple, neat and ornate mesh-fabric which is especially valuable in the manufacture of jewelry, being especially adapted in the construction of bracelets, rings, necklaces, garters, and stiffeners for lace collars, the parts of the fabric being flexible and stretchable, so as to be easily placed in position, and being self-adjustable, so that the elements or links of the fabric will easily adapt themselves to the parts of the body about which the fabric is placed, so that a perfect adaptation of the piece of jewelry to the person will be the result, and at the same time greatly enhancing the beauty of the piece of jewelry when it is worn.

I claim:—

A mesh-fabric comprising a series of connected ornamental elements, each element consisting of a pair of oscillatorily connected members, each member being provided with a centrally disposed ring-like part, the ring-like part of the one member registering with the ring-like part of the other member, and means for connecting the said ring-like parts together, consisting of a pivot-post formed with a head upon one end, and a retaining-disk to which the other end of said post is secured, said head and disk and the said ring-like parts providing a chamber, and means within said chamber coöperating with said members to permit of the fabric to be stretched or expanded, and constructed to return the elements of the fabric automatically to their normal initial relations.

In testimony that I claim the invention set forth above I have hereunto set my hand this 27th day of October, 1911.

THOMAS ALLSOPP.

Witnesses:

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FREDK. H. W. FRAENTZEL.