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AN ORNAMENTAL CHAIN

SUMMARY OF THE DISCLOSURE

The chain for ornamental purposes, comprises a mesh made up of links (4) suitable for undergoing work of compression and beating and having sections of various width. These sections (1,2,3) are made with links of the same dimensions and diameter as the wire.

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FIELD OF THE INVENTION

The present invention relates to a chain for ornamental purposes according to the preamble of claim 1.

BACKGROUND OF THE INVENTION

As is already well known, one of the production methods for chains used in the gold jewelry field consists of the manufacture of specially shaped small rings which are subsequently connected to form a chain, which has particular structures according to the reciprocal manner of connecting the small rings.

Subsequently, the chain thus obtained undergoes an operation that in itself is known as compressing and beating, and which creates flat strips in which the original links, that are formed by joining the small rings, are converted into supported and slightly staggered twilled bands.

A particular conformation of the flat strip obtained after compressing and beating is that of having sections of different width. As an example, an ornamental product having this characteristic consists of necklaces and bracelets made up of a middle section that is wider than the two side sections used for fastening.

At the present state of the art, the manufacture of ornamental products having the above mentioned characteristic is obtained by using links and wire of different size and diameter.

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In the part of the chain which must be wider there are used links having greater wire dimensions and diameter than the dimensions and diameter of the wire in the links that make up the remaining part of the same chain which has smaller width. This way of operation has productive, economic and aesthetic disadvantages.

The disadvantage in production derives from the need to use, for the manufacture a chain with variable width, at least two different kinds of links with the consequence of having to use at least two types of operating machines to carry out the connection; alternatively, manual operation would be required, with its obvious disadvantages.

The economic type of disadvantage derives from the fact that in order to manufacture the part of greater width, larger links must be used with larger diameter wire, which determines a higher consumption of the precious metal.

A further disadvantage derives from the fact that in using different size links the side-by-side barbed strips resulting after the operation of beating are not homogenous and, in the event a limited number of different types of links are used, the variation in chain width does not appear gradual and continuous, which gives rise to an unsatisfactory appearance.

SUMMARY OF THE INVENTION

The object of the present invention is to manufacture an ornamental chain having such characteristics that they

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provide results in the production and aesthetic appearance which are novel and superior with respect to what was possible to obtain with similar chains of the known type, which have sections of different width.

According to the invention, these results are achieved by manufacturing the chains with links of the same dimension and with wire of the same diameter.

Advantageously, it is possible to provide that the portion of chain that connects the sections of different length have a profile that gradually joins these sections.

BRIEF DESCRIPTION OF THE DRAWINGS

These and other characteristics of the invention will become more evident hereinbelow with reference to the enclosed drawings in which::

Fig. 1 represents a schematic front view of a portion of chain with a section having decreasing width.

Fig. 2 represents a top view of the section of the chain of Fig. 1;

Fig. 3 represents a sectional view according to line II-II of Fig. 1, of the "flat" type chain;

Fig. 4 represents a sectional view according to line II-II of Fig. 1 of the "crowned" type chain section;

Fig. 5 represents a schematic view of a portion of chain with two sections of decreasing width.

Figure 1 shows that the chain consists of a wider first

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section 1, together with a narrower section 2 through a section 3 having a profile that gradually joins them.

All the chain sections are made up by links 4 with a wire of the same dimensions and diameter. It is possible to make up the chain in such a way that the chain has in the interior a section of constant width, there are two or more portions symmetrically opposed and mutually joined and both having an increasing or decreasing profile.

As an example, figure 5 represents a chain in which in the interior there is a section of constant width 5, and there are two portions 6 and 7 having an increasing/decreasing profile, joined and symmetrically opposed.

It should be noted that the invention concerns all kinds of chain suitable for compressing and beating, for examples: eyelet, double, triple, quadruple, quintuple, fox-tail etc.

To make to chain, any kind of material, precious or non-precious, can be used; the links can be hollow or solid.

The surface of the chain can be glazed, diamond-studded, enhanced with patterns and the like.

Lastly, the various chain sections can be made in different lengths, widths and inclinations of their profile with respect to the axis, always within the scope of the invention.

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WHAT IS CLAIMED IS:



1. A chain for ornamental purposes, made up of a mesh formed of links (4) suitable to undergo operations of compression and beating and having sections (1,2,3) of different width wherein said sections (1,2,3) are manufactured with links of the same dimensions and with wire of same diameter.

2. The chain according to claim 1, wherein that portion (3) of the chain which connects the two above mentioned sections (1,2) of different width has a profile that continuously joins said sections (1) and (2).

3. The chain, according to claim 1 or 2, which has in the interior one section of constant width two portions symmetrically opposed and mutually joined and both having an increasing or decreasing profile.

4. The chain, according to claim 1 or 2, which has two portions symmetrically opposed, with increasing or decreasing profile, between which is interposed a section of constant width.

5. The chain, according to anyone of claims 1 through 4 which has a plurality of profiles of increasing or decreasing profile.

6. The chain, according to at least one of claims 1 through 5

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which has a "flat" type transversal section.

7. The chain, according to at least one of claims 1 through 6 which has a transversal section of the "crowned" type.

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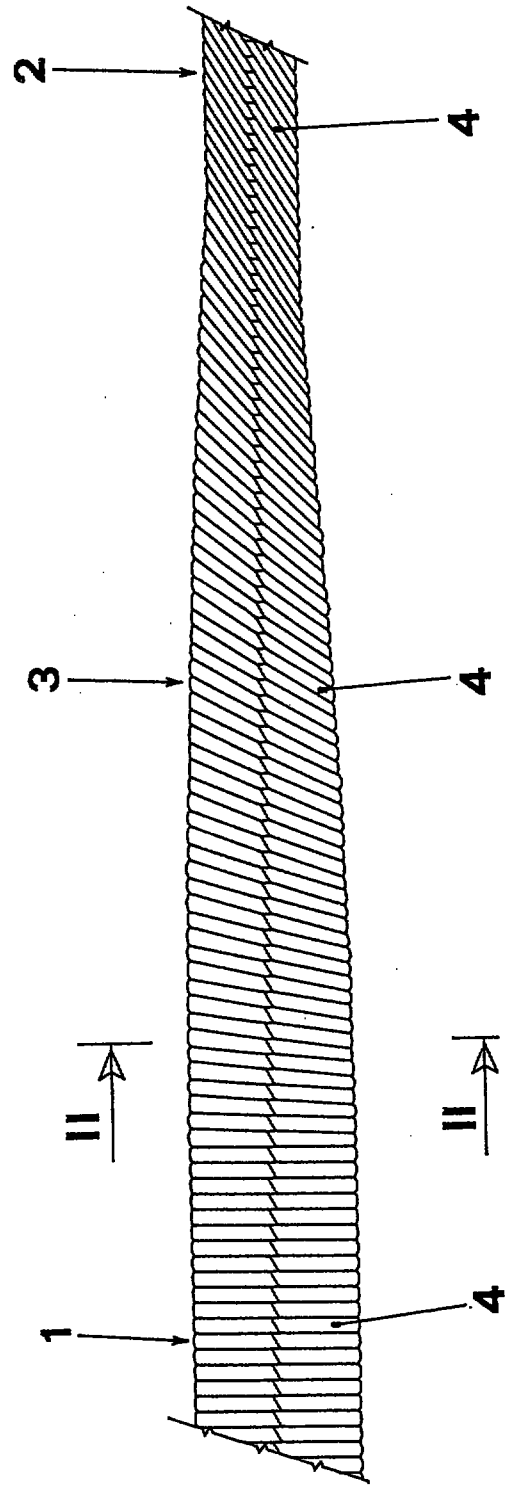

FIG. 1

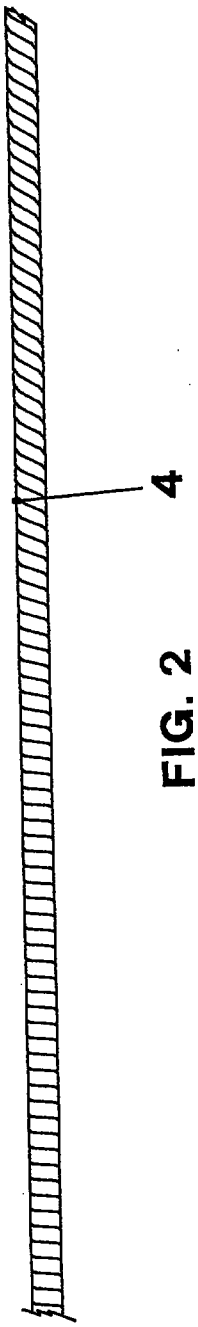

FIG. 2

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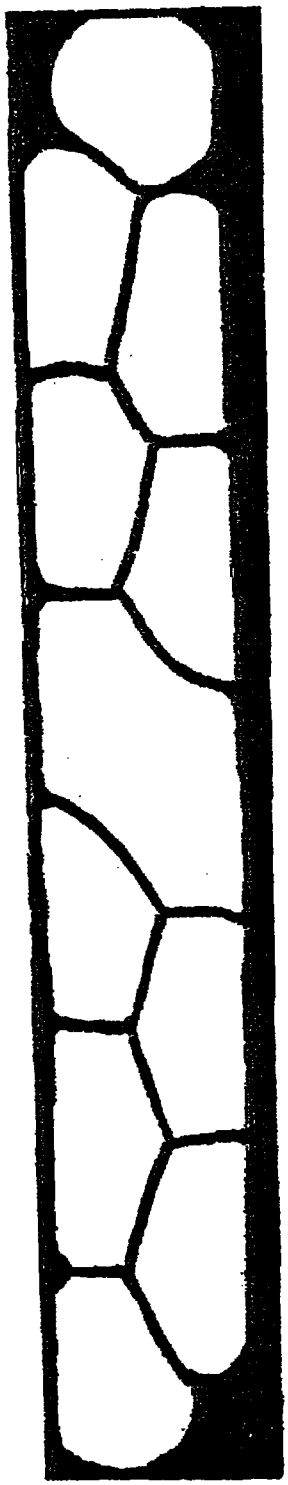

FIG. 3

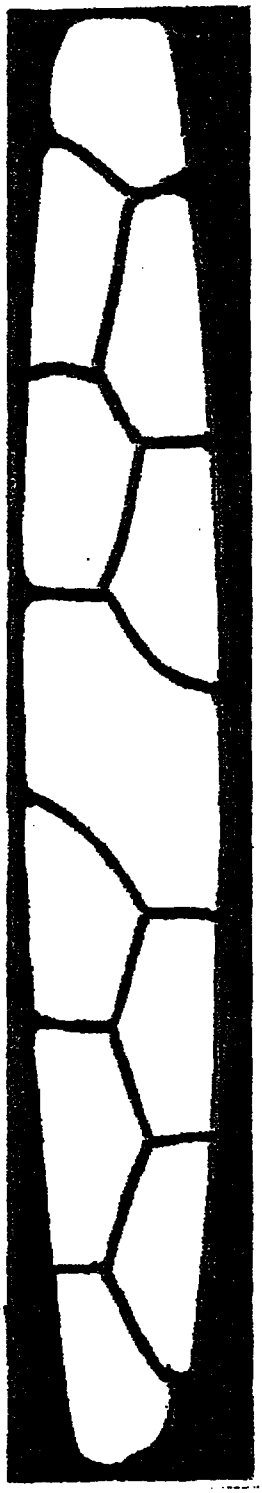

FIG. 4

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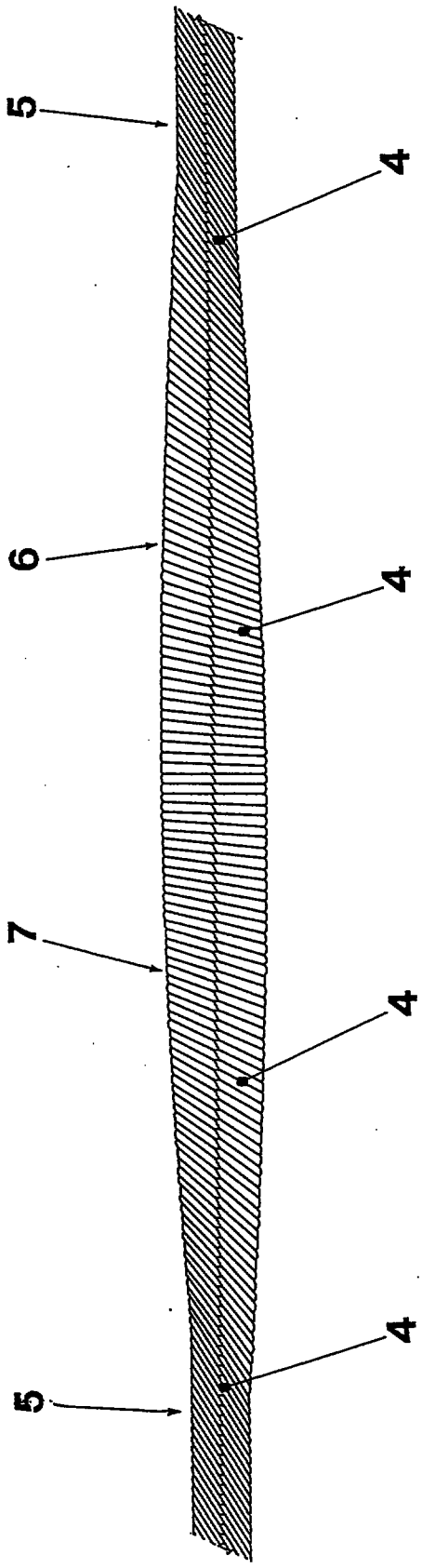

FIG. 5

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AN ORNAMENTAL CHAIN

FIELD OF THE INVENTION

The present invention relates to a chain for ornamental purposes according to the preamble of claim 1.

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As is already well known, one of the production methods for chains used in the gold jewelry field consists of the manufacture of specially shaped small rings which are subsequently connected to form a chain, which has particular structures according to the reciprocal manner of connecting the small rings.

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A particular conformation of the flat strip obtained after compressing and beating is that of having sections of different width. As an example, an ornamental product having this characteristic consists of necklaces and bracelets made up of a middle section that is wider than the two side sections used for fastening.

At the present state of the art, the manufacture of ornamental products having the above mentioned characteristic

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is obtained by using links and wire of different size and diameter.

In the part of the chain which must be wider there are used links having greater wire dimensions and diameter than the dimensions and diameter of the wire in the links that make up the remaining part of the same chain which has smaller width. This way of operation has productive, economic and aesthetic disadvantages.

The disadvantage in production derives from the need to use, for the manufacture a chain with variable width, at least two different kinds of links with the consequence of having to use at least two types of operating machines to carry out the connection; alternatively, manual operation would be required, with its obvious disadvantages.

The economic type of disadvantage derives from the fact that in order to manufacture the part of greater width, larger links must be used with larger diameter wire, which determines a higher consumption of the precious metal.

A further disadvantage derives from the fact that in using different size links the side-by-side barbed strips resulting after the operation of beating are not homogenous and, in the event a limited number of different types of links are used, the variation in chain width does not appear gradual and continuous, which gives rise to an unsatisfactory appearance.

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SUMMARY OF THE INVENTION

The object of the present invention is to manufacture an ornamental chain having such characteristics that they provide results in the production and aesthetic appearance which are novel and superior with respect to what was possible to obtain with similar chains of the known type, which have sections of different width.

According to the invention, these results are achieved by manufacturing the chains with links of the same dimension and with wire of the same diameter.

Advantageously, it is possible to provide that the portion of chain that connects the sections of different length have a profile that gradually joins these sections.

BRIEF DESCRIPTION OF THE DRAWINGS

These and other characteristics of the invention will become more evident hereinbelow with reference to the enclosed drawings in which:

Fig. 1 represents a schematic front view of a portion of chain with a section having decreasing width.

Fig. 2 represents a top view of the section of the chain of Fig. 1;

Fig. 3 represents a sectional view according to line II-II of Fig. 1, of the "flat" type chain;

Fig. 4 represents a sectional view according to line II-II of Fig. 1 of the "crowned" type chain section;

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Fig. 5 represents a schematic view of a portion of chain with two sections of decreasing width.

Figure 1 shows that the chain consists of a wider first section 1, together with a narrower section 2 through a section 3 having a profile that gradually joins them.

All the chain sections are made up by links 4 with a wire of the same dimensions and diameter. It is possible to make up the chain in such a way that the chain has in the interior a section of constant width, there are two or more portions symmetrically opposed and mutually joined and both having an increasing or decreasing profile.

As an example, figure 5 represents a chain in which in the interior there is a section of constant width 5, and there are two portions 6 and 7 having an increasing/decreasing profile, joined and symmetrically opposed.

It should be noted that the invention concerns all kinds of chain suitable for compressing and beating, for examples: eyelet, double, triple, quadruple, quintuple, fox-tail etc.

To make to chain, any kind of material, precious or non-precious, can be used; the links can be hollow or solid.

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WHAT IS CLAIMED IS:

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1. A chain for ornamental purposes, made up of a mesh formed of links (4) suitable to undergo operations of compression and beating and having sections (1,2,3) of different width wherein said sections (1,2,3) are manufactured with links of the same dimensions and with wire of same diameter.

2. The chain according to claim 1, wherein that portion (3) of the chain which connects the two above mentioned sections (1,2) of different width has a profile that continuously joins said sections (1) and (2).

3. The chain, according to claim 1 or 2, which has in the interior one section of constant width two portions symmetrically opposed and mutually joined and both having an increasing or decreasing profile.

4. The chain, according to claim 1 or 2, which has two portions symmetrically opposed, with increasing or decreasing profile, between which is interposed a section of constant width.

5. The chain, according to anyone of claims 1 through 4 which has a plurality of profiles of increasing or decreasing profile.

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* C L M S *

6. The chain, according to at least one of claims 1 through 5 which has a "flat" type transversal section.

7. The chain, according to at least one of claims 1 through 6 which has a transversal section of the "crowned" type.

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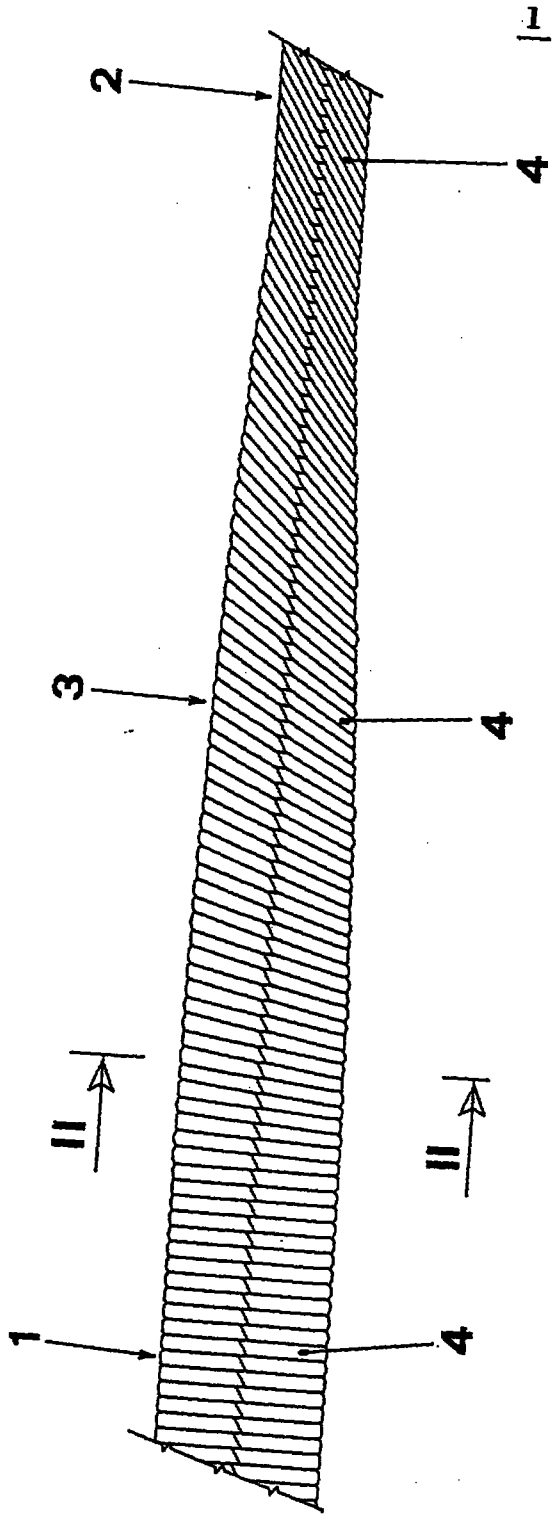

FIG. 1

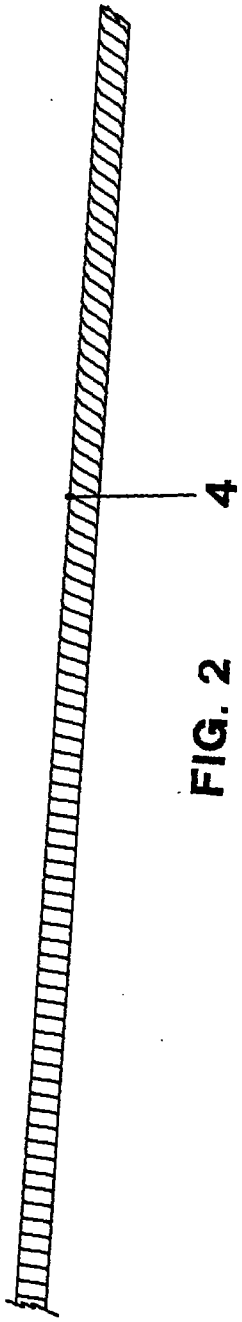

FIG. 2

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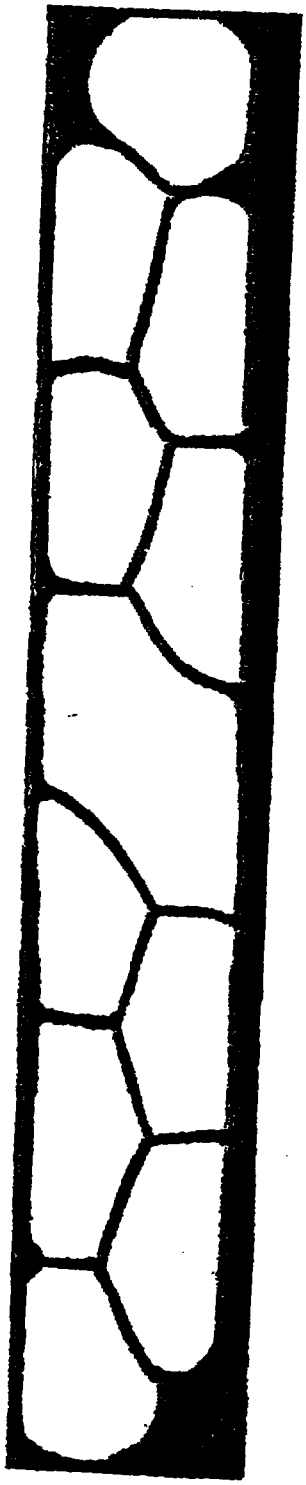

FIG. 3

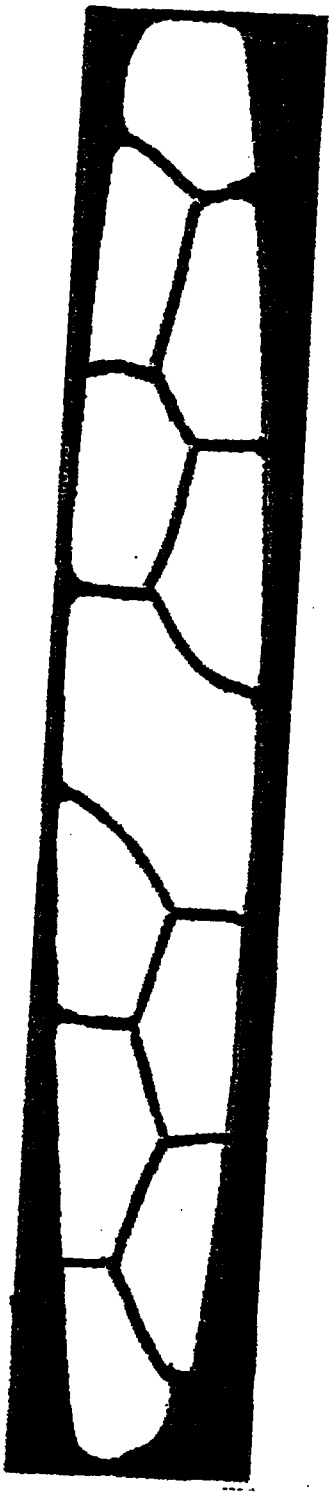

FIG. 4

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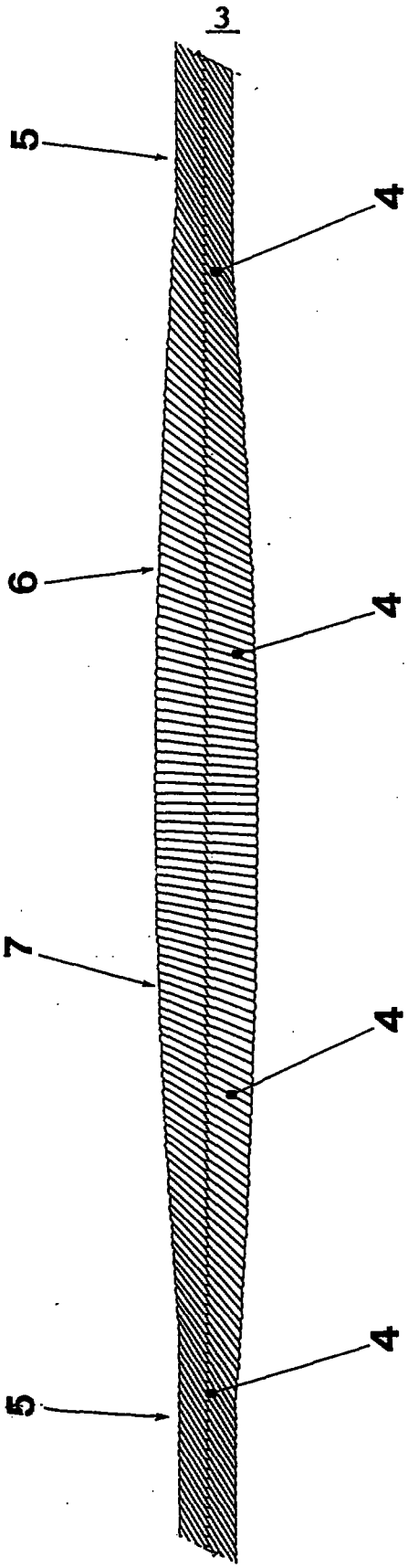

FIG. 5

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AN ORNAMENTAL CHAIN

ABSTRACT

The chain for ornamental purposes, comprises a mesh made up of links (4) suitable for undergoing work of compression and beating and having sections of various width. These sections (1,2,3) are made with links of the same dimensions and diameter as the wire.

Figure 1