Feb. 2, 1926. 1,571,858

V. MASSACESE

FABRIC FURNITURE SPRING

Filed Oct. 24, 1924

Fig. 1.

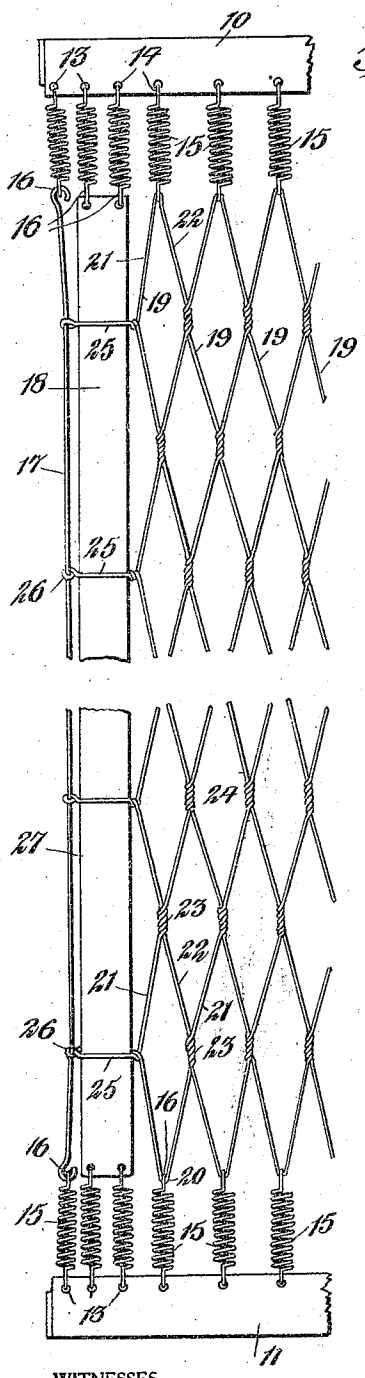
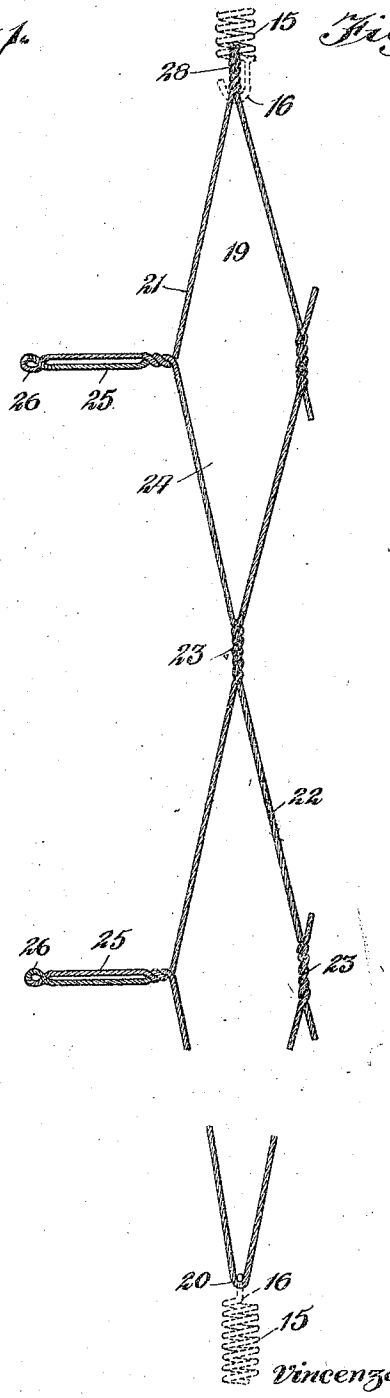



Fig. 2.




WITNESSES

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Patented Feb. 2, 1926. 1,571,858

# UNITED STATES PATENT OFFICE.

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## FABRIC FURNITURE SPRING.

Application filed October 24, 1924. Serial No. 745,677.

*To all whom it may concern:*

Be it known that I, VINCENZO MASSACESE, a subject of the King of Italy, and resident of the city of New York, borough of Manhattan, in the county of New York and State of New York, have invented a new and Improved Fabric Furniture Spring, of which the following is a full, clear, and exact description.

This invention has relation to furniture springs and has particular reference to fabric furniture springs which are especially designed for beds, couches or the like.

Primarily the invention contemplates an improved fabric furniture spring consisting of a plurality of inter-twisted wire cables supported by the contractile helical springs from the frame of the spring structure and in which the side leads of the fabric are supported from the side strap braces for embracing the same to prevent undue sagging or depression of the side edges of the fabric.

One of the main objects of the present invention is to produce a fabric furniture spring which is practically sagless but which at the same time embodies the desired resiliency to render the same comfortable and pliable.

As a further object the invention comprehends a means for protecting the sharp outer edges of the strap braces whereby to prevent cutting of the bed clothes and in which the cable serves as a means for tying or holding said rods in juxtaposition to the strap edges.

The invention furthermore contemplates a fabric spring consisting of a plurality of inter-twisted wire cables to provide a mesh, and in which said inter-twisted portions are of sufficient length to properly reinforce the fabric at various points.

As a further object the invention aims to provide a fabric furniture spring which admits of the formation of the same in an economical manner by use of a machine and which is comparatively simple in its construction and highly efficient in its purpose.

With the above recited and other objects in view, the invention resides in the novel construction set forth in the following specification, particularly pointed out in the appended claim and illustrated in the accompanying drawings, it being understood that the right is reserved to embodiments other than those actually illustrated herein, to the full extent indicated by the general meaning of the terms in which the claim is expressed.

In the drawings—

Figure 1 is a fragmentary plan view of a fabric furniture spring constructed in accordance with the invention.

Figure 2 is a diagrammatic detail plan view of the fabric alone.

Referring to the drawings by characters of reference 10 and 11 designate the opposite end rails of the spring structure frame which are perforated as at 13 adjacent their inner edges to receive the hooked terminals 14 of the helical contractile springs 15. To the inner hooked terminals 16 of the outermost side springs 15 the opposite ends of the rods 17 are attached. To the hooked inner terminals of the next adjacent pair of springs 15 the opposite ends of the strap braces or reinforcing straps 18 are attached. The fabric consists of a plurality of lengths of wire cable 19 each length of which is formed into a bight 20 at one end of the spring structure which is hooked over the inner hooked terminal 16 of the intermediate springs 15. From each bight 20 the leads 21 and 22 are inter-twisted as at 23 alternately with the lead 21 of the next adjacent length of wire cable and with each other to provide a substantially diamond shaped mesh 24. The outermost side leads of each length of cable are provided with laterally disposed loops 25 which embrace the reinforcing straps 18 at longitudinally spaced points. The bights 26 of the loops are twisted into a substantial eye form and also engage around the rods 17 so that said rods are maintained in substantially parallel relation or juxtaposition to the outer edge 27 of the reinforcing straps. The free terminals of the leads 21 and 22 of each length of cable are inter-twisted together as at 28 and are engaged over the hooked inner terminals 16 of the helical contractile springs 15.

Under this construction it will be noted that the loops 25 which embrace the reinforcing straps 18 serve to properly support the opposite side edges of the fabric to prevent undue depression or sagging, in view of the fact that the straps which are of a material having less yieldability or more rigidity prevent sagging or undue depression. It will be also noted that the rods 17 in addition to serving as reinforcing elements and preventing undue depression or sagging of the edge of the spring structure, also

act in the capacity of protecting elements for the outer side edges 27 of the straps to prevent cutting of the bed clothes thereon. The general construction of the spring gives a firm yet sufficiently yieldable support for the weight of the user and it will be noted that the inter-twisted portions 23 are sufficiently elongated to give additional reinforcing portions at various points throughout the area to the fabric.

I claim:

In a furniture spring which includes a frame having end rails, helical contractile springs connected with said end rails, and side straps connected at the opposite ends to certain of said helical springs, a fabric connected at its opposite ends to said helical springs and consisting of wire cables inter-twisted together to provide a mesh and having loops formed in the outer side leads of each side cable which loops embrace the side straps for supporting the side edges of the fabric from the strap and rods connected at their opposite ends respectively to the outermost helical springs, arranged parallel and alongside of the outer side edges of the straps and also embraced by the loops formed in the outer side leads of the fabric, said loops having a second twist between the straps and rods for spacing and holding the same in a plane with each other, whereby to hold said rods in juxtaposition to the strap for preventing contact and possible cutting of the bed clothing on the edge of said straps.

VINCENZO MASSACESE.