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UPHOLSTERY BASE FOR FURNITURE OR VEHICLE SEATS, MATTRESSES AND THE LIKE

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FIG. 1

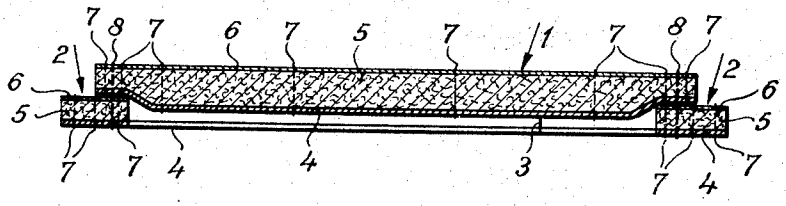
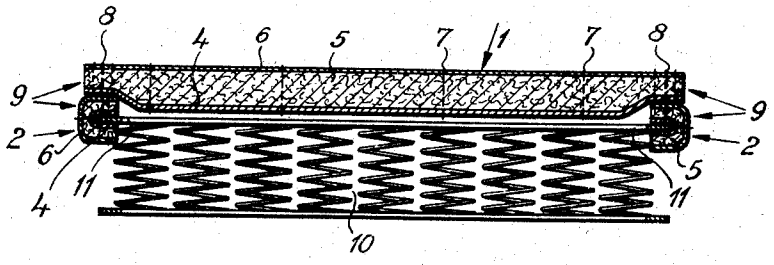


FIG. 2



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UPHOLSTERY BASE FOR FURNITURE OR VEHICLE SEATS, MATTRESSES AND THE LIKE

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4 Claims. (Cl. 155—181)

The present invention relates to an upholstered base constructed as a molded body for seats, mattresses and the like and particularly for the seats of mechanically propelled vehicles.

Apart from other and very different upholstery materials, cotton wool or cotton wool-like material is used on a large scale as material for upholstery bases of seats, mattresses and the like articles of furniture and particularly the seats of mechanically propelled vehicles.

In addition to upholstery materials generally, the working of cotton wool material into a cotton wool pad has proved particularly advantageous. In such case the cotton wool is disposed in a thick layer on a textile such as jute or nettle cloth, if necessary covered with a thin muslin fabric, and with the fabric base connected by seams at comparatively large spaced intervals.

Some difficulties occur however when such a cotton wool pad is used for the upholstery of the seats of mechanically propelled vehicles. The basic component of the seat of the vehicle is generally a spring core which must be covered by upholstery material such as by a cotton wool pad. Usually pieces have been cut out of the cotton wool pad corresponding to the size of the spring core to be covered, and these were disposed on the spring core. Either the cotton wool pad was then turned over the edges all around the spring core or the edge of the cotton wool pad projecting beyond the spring core was turned-in over the edge of the spring core and connected to the edge of the spring core by ornamental stitching.

With the first method, the edge of the spring core is very soon pressed through the upholstery formed by the cotton wool pad. When one sits on such an upholstered seat, the frame of the box spring is very soon felt as a discomfort. The second method of procedure prevents this and although in this case the edge of the upholstery, which is continuously exposed to a changing load, will not readily lose its shape, the work of preparation or manufacture takes up a comparatively long period of time with the result that the finished product is expensive and must therefore be regarded as a disadvantage for this reason.

In order to avoid the described difficulties in the working-up or treatment of a cotton wool pad for upholstery bases, the most varied kinds of experiments have already been made. Thus, particularly recently, instead of cotton wool, which must be regarded as the ideal upholstery medium, molded bodies have been used specifically for upholstering vehicle seats. These consist of very hard and inferior vegetable fibre, bound with rubber in order to keep the price of such molded bodies at least to some extent within acceptable limits. The molded bodies, which as such are much harder and therefore more uncomfortable than cotton wool upholstery, have the great advantage, however, that they require scarcely any time in the course of assembly in the manufacture of seats of mechanically propelled vehicles since they are just slipped on to the spring cores and can be connected thereto with a few simple manipulations.

In contradistinction to the recent experiments and in accordance with the present invention ordinary pads of cotton wool are used as the upholstery material, thus making use of the excellent upholstery properties of cotton wool, but in contrast to the old methods the cotton wool used is in the form of shaped or molded bodies which in a simple and time-saving manner can be used specifically in the manufacture of seating upholstery and mattresses, particularly in the manufacture of mechanically propelled vehicles, as an upholstery base for vehicle seats having spring cores.

In accordance with the present invention, the molded body consists of a cotton wool pad which has the same outline as the spring core to which the upholstery base is to be applied and which is connected to a base frame which also consists of a cotton wool pad and likewise has the same outline as the spring core. If desired the frame may project beyond the sides of the cotton wool pad at the base thereof.

When the molded body formed of a cotton wool pad is applied to a spring core, the projecting part of the frame is just turned over the edge of the spring core and is connected thereto by any desired means. Preferably metal clamps are used which can be pressed together by pincers.

The base frame is preferably constructed of a cotton wool pad similar to that of the covering upholstery. For this purpose the frame, after being fastened by a number of axially parallel seams may be severed from the shaped piece of cotton wool, made bigger by the width of the frame, and slipped under the edge of the cotton wool pad. Only at one place need a small part of this frame, corresponding to the amount by which the frame is compressed, be extracted.

Further features of the invention and details of the advantages obtained thereby will be apparent from the following description of the embodiments of the invention shown by way of example in the accompanying drawings, in which:

Figure 1 is a section through a molded body formed from a cotton wool pad.

Figure 2 is a section through a similar molded body, applied to a spring core.

A molded mass, which is formed in its outline to the spring core to be covered, but is considerably larger than said core is cut from a pad of cotton wool. This molded mass is fastened at its edges by several parallel seams. Alternatively, however, this may be effected, by treatment of the pad with a synthetic resin, rubber latex or the like or again by felting. From the molded mass is then cut a portion of the strengthened edge to leave the molded member **1**, while the edge part thus cut is then placed beneath the member **1** to form the frame **2**, this being achieved by the removal of a corresponding piece of the edge at **3** for example to reduce its overall size.

In forming the member **1** which constitutes the cover upholstery, the pad of cotton wool may be of the usual kind consisting for example of a base **4** of fabric such as jute or nettle cloth and a layer **5** disposed thereon of wadding which may be covered if desired with a muslin layer **6**. The layers are quilted together by seams **7**.

The base frame **2** is firmly connected to the covering upholstery **1** as shown in the drawings, for example, by a simple seam **8** which can be formed in any desired manner and conveniently with the use of a special machine. Obviously the base frame **2** may be connected to the main member **1** in any other manner desired such as by cementing or, if synthetic material or rubber is applied to the cotton wool, by pressing, heating or vulcanising.

In the embodiment shown in Figure 1 the wadding is compressed once again and consolidated by the con-

necting of the cover upholstery **1** and the frame **2** by a seam at the connecting point.

In the modification illustrated in Figure 2 a reinforced area **9** is disposed precisely over the edge **11** of a spring core **10** on which the molded body of cotton wool is to be disposed. The frame **2** is turned over with only a few manipulations and connected in a simple manner with the spring core **10** by means of clamps for example. The molded body formed from a pad of cotton wool in accordance with the present invention thus combines the advantages associated with the use of cotton wool as upholstery material, with the advantages of rapid and simple preparation and assembly associated with molded bodies known hitherto and consisting of material other than cotton wool.

I claim:

1. An upholstery base, constructed as a molded body, for seats having a spring core for vehicles or the like, said base comprising a molded pad of cotton wool constituting a cover pad having substantially the same size and outline as the spring core and being disposed upon the upper surface of a frame of substantially rectangular cross-section made of a similar cotton wool pad conforming to the outline of the spring core and extending beyond and below said cover pad on all sides thereof and being firmly connected to said cover pad by seaming, cementing or the like.

2. An upholstery base, constructed as a molded body,

for seats having a spring core for vehicles or the like, said base comprising a molded pad of cotton wool constituting a cover pad having substantially the same size and outline as the spring core and being disposed upon the upper surface of a frame of substantially rectangular cross-section made of a similar cotton wool pad conforming to the outline of the spring core and extending beyond and below said cover pad on all sides thereof and being firmly connected to said cover pad by seaming, cementing or the like, said frame member projecting on all sides thereof by approximately half its width beyond said cover pad and the projecting portion of said frame being provided with at least one seam.

3. An upholstery base in accordance with claim 1 wherein the cotton wool of said frame and the adjacent area of said cover pad are coated with a synthetic resin, rubber or the like and are connected together by pressing, heating, vulcanizing or the like.

4. An upholstery base in accordance with claim 1, wherein the top of said frame and the corresponding region of the cover pad are strengthened and interconnected by felting.

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