Aug. 28, 1928. 1,682,394

C. C. MEUTSCH

MATTRESS AND CUSHION

Filed April 21, 1925

Fig. 1.

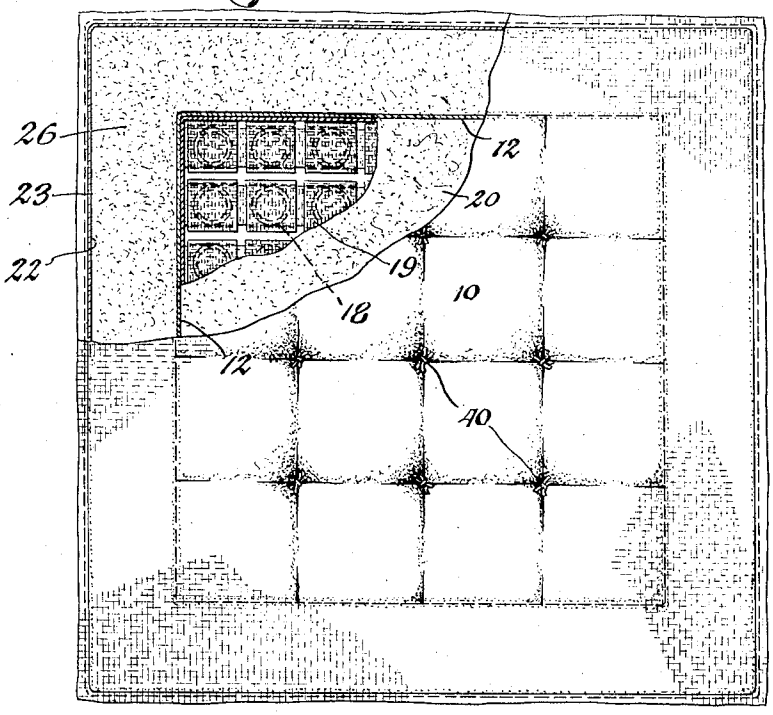


Fig. 2.

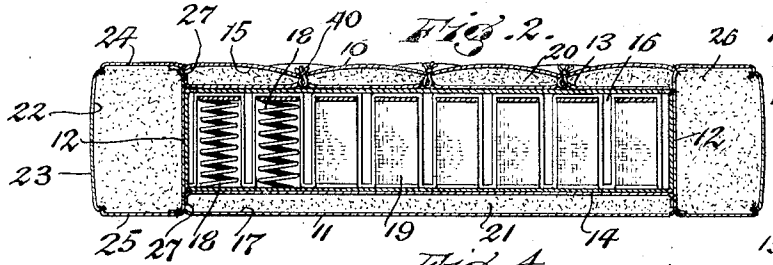


Fig. 3.

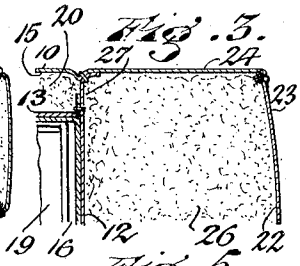


Fig. 4.

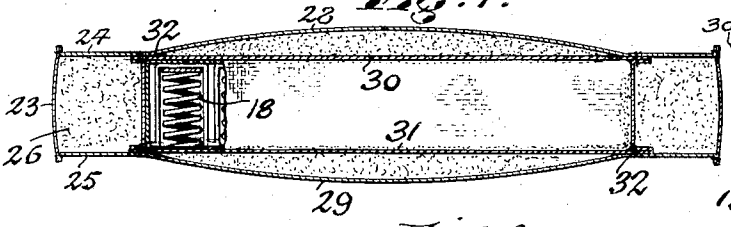


Fig. 5.

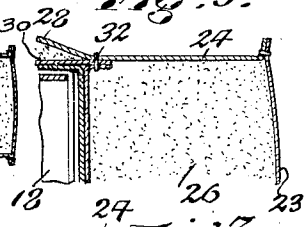


Fig. 6.

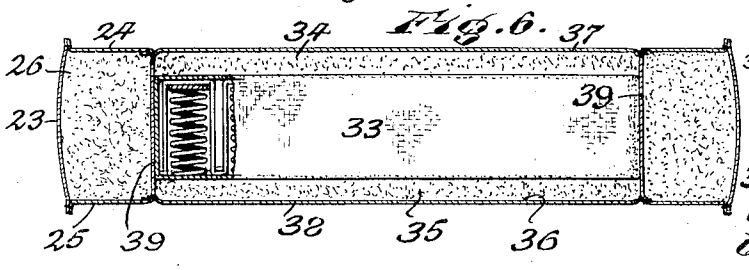
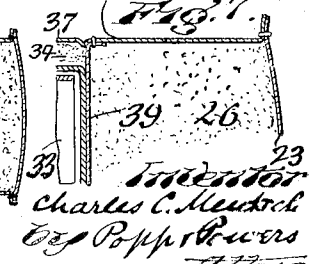


Fig. 7.



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UNITED STATES PATENT OFFICE.

CHARLES C. MEUTSCH, OF BUFFALO, NEW YORK.

MATTRESS AND CUSHION.

Application filed April 21, 1925. Serial No. 24,761.

This invention relates to a mattress or cushion for use in furniture, automobiles and elsewhere.

Heretofore cushions or mattresses of this character have surrounded the top, bottom and lateral sides of a spring structure by cushion fillings arranged in top, bottom and side compartments around the spring structure, which compartments communicated with each other, as shown for example in Letters Patent Nos. 1,287,590 and 1,287,591 granted to myself December 10, 1918.

This construction is objectionable because the fillings on the top, bottom and side compartments become displaced from one of those compartments to another and in time cause the mattress or cushion to assume an uneven shape and unsightly appearance instead of a regular definite outline, particularly at the side edges of the same.

It is therefore the object of this invention to provide a mattress and cushion in which the fillings at the top, bottom and sides are positively held in their proper relative position and thus preserve the contour of the mattress and cushion regardless of how often the same may be subjected to a compressive force while in use.

With this object in mind this invention consists generally in providing the main or central section of the mattress or cushion with a surrounding border compartment which is independent of and not in communication with a compartment in the main section whereby the cushion filling in each compartment is reliably confined therein and prevented from creeping into another compartment which otherwise would in time render the mattress and cushion unshapely and irregular of outline.

In the accompanying drawings:

Figure 1 is a plan view of one form of mattress and cushion, partly in section containing my invention.

Figure 2 is a vertical section of the same corresponding in scale to that shown in Figure 1.

Figure 3 is a fragmentary vertical section, on an enlarged scale, of the upper right-hand corner of the mattress and cushion shown in Figures 1 and 2 and setting forth the detail construction more clearly.

Figure 4 is a vertical section, similar to Figure 2, showing a modified form of my improvements.

Figure 5 is a fragmentary vertical section, on an enlarged scale, of the upper right-hand corner of the mattress or cushion shown in Figure 4.

Figure 6 is a vertical cross section showing another modification of my invention.

Figure 7 is a fragmentary vertical section, on an enlarged scale, of the upper right corner of the article shown in Figure 6.

Similar characters of reference indicate like parts throughout the several views.

In its general organization this mattress or cushion consists of a main central section containing a spring structure or cushion filling, and a border or side section which surrounds the central main section and contains a cushion filling incapable of mixing with the cushion filling of the main section.

Referring to the form of my invention shown in Figures 1, 2 and 3, the numerals 10, 11 represent the top and bottom walls or surfaces of the main section, and 12 the circumferential side wall of the same which are connected with each other by stitching in any suitable manner and which are constructed of any suitable textile fabric such as ticking, muslin, canvas or burlap.

Within this main section of the mattress or cushion are arranged upper and lower horizontal partitions 13, 14 of any suitable fabric which are secured to the side wall of the main section by stitching or otherwise and form with the main and side walls an upper compartment 15, an intermediate or central compartment 16, and a lower compartment 17, said upper and lower compartments being of less depth than the central compartment between the same. Into the central campartment is placed a previously prepared spring structure which may be of any approved construction but contains essentially a plurality of helical springs 18 arranged in suitable order and retained in an upright position and in spaced relation to each other by a retaining jacket or holder 19 in which said springs are mounted. This spring structure is introduced into the central compartment while one side is still open and thereafter this inlet opening is closed by sewing together the edges of the same in a well known manner. Into the upper and lower compartments of the main section are placed upper and lower fillings 20, 21 of cotton or other fibrous cushion material having the requisite resilience to furnish a soft supporting surface similar to that of a pillow, these fillings

being introduced into the respective compartments while an inlet at one edge thereof is still open, which inlet is closed by stitches or the like after the fillings are in place. If desired, particularly when these improvements are embodied in a mattress, the cushion or mattress can be made of tufted form without interfering with the removal, insertion or free action of the spring structure. To accomplish this the tufts 40 which are placed at spaced intervals on the upper side of the cushion, are sewed through the top wall 10 and the upper horizontal partition 13, thereby bringing these walls together at these points and the under side of the cushion may be similarly tufted by sewing the tufts through the bottom wall 11 and the lower horizontal partition 14. By providing upper and lower compartments 20 and 21 as described, it is unnecessary to pass the tufting thread through from one side of the mattress to the other as has been necessary heretofore, and the spring structure can be freely inserted into the cushion or removed therefrom when this becomes necessary.

Encompassing the peripheral or side wall of the main section of the mattress or cushion is a border compartment 22 which is formed by a circumferential outer wall 23 of suitable fabric and upper and lower horizontal walls 24, 25 connecting the upper and lower edges of the circumferential wall with the corresponding corners of the main section. The interior of this border compartment is stuffed with a filling 26 of cotton, or the like, which material is introduced in any suitable manner through an inlet opening in this compartment which is closed after the operation of stuffing the filling into this compartment is completed.

The border compartment does not communicate with the compartments of the main section and is completely independent of the same, whereby shifting of filling material from the border compartment into the compartments of the main section, or vice versa, is positively prevented thereby maintaining the marginal part of the mattress or cushion in such shape that it always presents full and well formed corners and maintaining a uniform and attractive appearance of the mattress or cushion as a whole.

As shown in Figures 2 and 3, the upper and lower compartments of the main section of the mattress or cushion are separated from the border compartment by distinct vertical wall portions 27 which permit of making upper and lower sides of these compartments of the main section flush or in line with the top and bottom of the border compartment, this being desirable in some instances to suit differences in taste and varying requirements in different pieces of furniture.

If desired the edges of the top and bottom walls 28, 29 of the main mattress section may be joined with the edges of the intermediate partitions 30, 31, as shown at 32 in Figures 4 and 5, and upper and lower walls of the border compartment may also be joined at their inner edges to the central or main section at the same place, thereby causing the exterior of the main section of the mattress to bulge outwardly slightly with reference to the border section, and producing a change in appearance of the mattress accordingly.

Instead of employing separate compartments on the upper and lower sides of the central or main mattress section for holding pads of cotton filling as described with reference to Figure 1–5, those compartments may be omitted and a similar effect produced by first wrapping a cotton filling around the previously prepared spring structure 33 so as to form pads or fillings 34, 35 on the upper and lower sides of this spring structure and then pushing this assembly of these parts as a unit into a single compartment 36 formed on the main or central mattress section between the top 37, bottom 38 and side walls 39 which latter wholly obstruct communication between this single central compartment and the surrounding border compartment as shown in Figures 6 and 7.

In all of these several embodiments of my improvements the border filling is positively confined in its place due to the absence of any communication between the border compartment and the compartments within the central or main section, thereby preventing the corners of the mattress from sagging or being permanently pressed down by any compressive force and instead preserving the full and sharp outline of the mattress which adds to its appearance.

I claim as my invention:—

A mattress and cushion comprising upper and lower fabric walls of an outline conforming to the shape of the cushion, an outer side wall forming the marginal wall of said cushion and secured at its upper and lower edges to the edges of said upper and lower walls, an inner wall arranged within said upper, lower and side walls and secured at its upper and lower edges to the inner sides of the upper and lower walls a substantial distance from the edge of the cushion and forming a border compartment, a cushion filling arranged within said border compartment, upper and lower horizontal inner walls arranged within said cushion and secured at their edges to the inner side of said first mentioned inner wall and forming an upper and lower compartment and a central compartment, a cushion filling arranged within said upper and lower compartments, and a spring structure arranged within said central compartment.

In testimony whereof I affix my signature.

CHARLES C. MEUTSCH.