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DEL ROY F. FOWLER

1,565,267

UPHOLSTERY PAD

Filed May 12, 1924

Fig. 1.

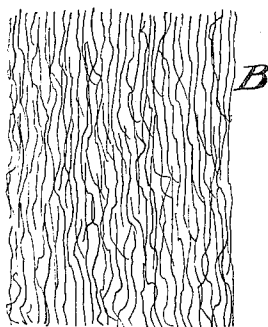


Fig. 2.

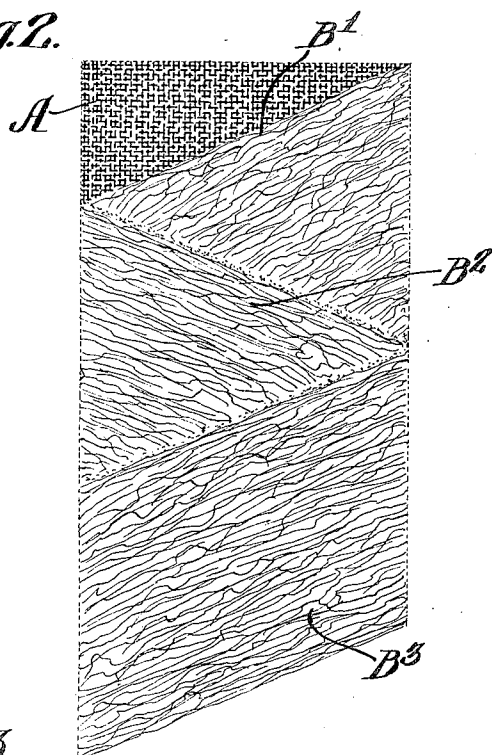
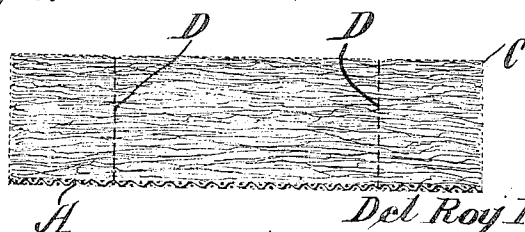


Fig. 3.



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UNITED STATES PATENT OFFICE.

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UPHOLSTERY PAD.

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To all whom it may concern:

Be it known that I, DEL ROY F. FOWLER, a citizen of the United States of America, and resident of Melrose Park, county of Montgomery, State of Pennsylvania, have invented a certain new and useful Improvement in Upholstery Pads, of which the following is a true and exact description, reference being had to the accompanying drawings, which form a part thereof.

My invention relates to upholstery pads such as are used extensively in motor car upholstery as pads overlying a backing of helical springs or as padding overlying a box spring mattress. As heretofore constructed, such pads have been made up of a felted mass of fibre, cotton and curled hair being very commonly used and they have lacked in resilience and also in use tend to sink into the spaces in and between springs and to become lumpy and uneven.

The object of my invention is to provide a pad of great resilience and permanence of form under conditions of use and I have discovered that such a pad can be made by building up a pad of a series of diagonally disposed thin veils, each veil being made up of long wavy sisal fibre dry carded so as not to diminish the resilience of the wavy fibre but simply to give the fibre of the carded veil a general uniformity of direction. The fibres of the superimposed veils run diagonally to each other but are not fitted together and the pad so formed is applied to or built up upon a fabric backing, generally of burlap or canvas, and secured to the backing and the layers held together by rows of stitches.

Commercial sisal fibre, after dry carding, I have found to average about four inches in length and this material when dry carded into veils, is admirably fitted for use in making up my pads, because I believe so much of the fibre is longer than the diameter of the bell of the springs. Other fibre may be mixed with the dry carded sisal to cheapen the pad but I believe that for the best results a pad made up as described of sisal fibre alone is the very best in use.

In the drawings:

Figure 1 is a rather diagrammatic view of a thin veil of dry carded, long, wavy sisal fibre such as I use in building up my pad.

Figure 2 is a plan view of a fabric backing with one such veil applied in diagonal lapping folds upon it, and

Figure 3 is a cross section of a completed and stitched pad.

A is the fabric backing of the pad. B the thin veil of dry carded long and wavy sisal fibre, the fibres of which veil lay in generally the same direction but lap each other by reason of their wavy nature. At B', B2, B3, I have shown how the veil is applied to the backing and it will be understood that successive veils are so applied in layers and so that the fibres of successive layers lie diagonally upon each other.

At C I have shown the completed pad stitched to the backing by rows of stitches, indicated at D, D, etc. The distinctive features of my new padding are that neither in the fibres making up a carded veil nor in the fibres of the superimposed veils is there any felting together of the fibres of the pads, or any flattening out of the natural waves of the sisal fibre, so that in the pad the resilience of each component fibre is fully availed of and a pad of great and permanent resilience provided which strongly resists all forces tending to permanently deform it.

Having now described my invention, what I claim as new and desire to secure by Letters Patent, is:

A pad for upholstery made up of a fabric backing overlaid by a multiplicity of thin veils of dry carded, long and wavy sisal fibre, said veils being successively superposed upon each other with the fibres of successive layers crossing each other at an angle so as to form a springy unfelted pad and said pad being stitched to the backing.

DEL ROY F. FOWLER.