LE ROY P. CLUTTER.

CUSHIONING MATERIAL FOR ABSORBING SHOCK.

APPLICATION FILED DEC. 17, 1914.

1,175,606. Patented Mar. 14, 1916.

FIG. 1

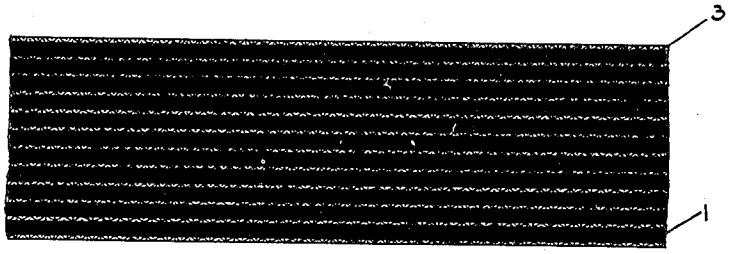


FIG. 2

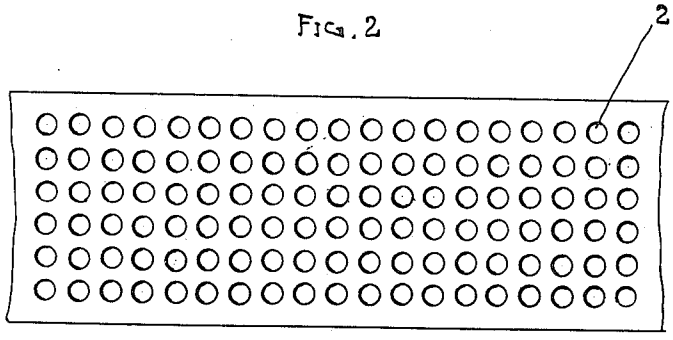
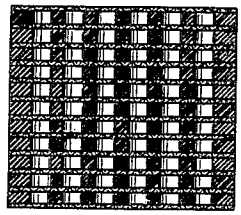


FIG. 3



WITNESSES

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CUSHIONING MATERIAL FOR ABSORBING SHOCK.

1,175,606. Specification of Letters Patent. Patented Mar. 14, 1916.

Application filed December 17, 1914. Serial No. 877,747.

To all whom it may concern:

Be it known that I, LE ROY P. CLUTTER, a citizen of the United States of America, residing at Beaver Falls, in the county of Beaver and State of Pennsylvania, have invented certain new and useful Improvements in Cushioning Material for Absorbing Shock, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a cushioning block or material for absorbing shock for moving parts of machinery, or for any other purpose where it is found applicable, and has for its object to provide, in a manner as hereinafter set forth, a resilient block or material having means to reduce lateral expansion when the block is under pressure for the purpose of absorbing shock.

A further object of the invention is to provide a cushioning block for absorbing shock which is simple in its construction and arrangement, strong, durable, efficient and convenient in its use, readily set up and comparatively inexpensive to manufacture.

With the foregoing and other objects in view the invention consists of the novel construction, combination and arrangement of parts as hereinafter more specifically described and illustrated in the accompanying drawings wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claims hereunto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:—Figure 1 is a longitudinal sectional view of a shock absorbing block or material in accordance with this invention. Fig. 2 is a top plan view, broken away, of one of the resilient elements of a block or material. Fig. 3 is a cross sectional view of a block or material.

A shock absorber block or material in accordance with this invention is a composite structure formed of a series of resilient members 1, provided with longitudinal rows of perforations 2, and interposed between said resilient members 1 are strips of fabric 3. The resilient members 1, preferably are constructed of rubber, but any suitable material may be employed. The fabric members 3 are preferably constructed of canvas, but any suitable material may be employed. The fabric strips 3 are alternately disposed with respect to the resilient members 1 and reduce lateral expansion of the resilient members when the block or material is under a state of compression for the purpose of absorbing shock.

The resilient members 1 set up a cushioning action when the block is under a state of compression and as said members 1 are resilient, the block automatically restores itself to its original shape after pressure has been removed therefrom.

The fabric strips are fixedly secured to the resilient members in any suitable manner, preferably by an adhesive substance.

In lieu of employing fabric strips between the resilient members, metallic strips can be employed and these latter may be secured to the resilient members in any suitable manner. The metallic strips may be of any desired thickness.

The means which is set forth herein for absorbing shock can also be employed for use as motor vehicle tires.

What I claim is:—

1. A shock absorber material comprising a series of resilient members each provided with openings, and a series of fabric strips secured to said members, said strip being alternately disposed with respect to said members.

2. A shock absorbing material comprising a series of resilient members each provided with longitudinal rows of openings, and a series of fabric strips secured to said members, said strips being alternately disposed with respect to said members.

3. A shock absorbing material comprising a series of resilient members each provided with openings, and flexible strips secured to and alternately disposed with respect to said members.

4. A shock absorbing material comprising a series of resilient members provided with longitudinal rows of openings, and a series of flexible strips secured to and alternately disposed with respect to said members.

5. A shock absorber material comprising a series of resilient members, and strips secured to and alternately disposed with respect to said members, said resilient members being provided throughout with openings.

6. A shock absorber block comprising a resilient element provided with openings,

a reinforcing strip positioned against each face of said resilient element.

7. A shock absorbing device comprising a resilient element having faces and formed with openings, and an imperforate reinforcing strip positioned against each face of said element.

8. A shock absorbing means comprising a plurality of resilient perforated elements having faces, and an imperforate reinforcing strip positioned against each face of each element.

9. A shock absorbing means comprising a layer of rubber provided with perforations, and a fabric reinforcing strip positioned against each face of said layer.

10. A shock absorbing block comprising a plurality of rubber layers each provided with openings, and a series of fabric strips secured to said layers and providing reinforcements therefor, said strips being alternately disposed with respect to said layers.

In testimony whereof I affix my signature in the presence of two witnesses.

LE ROY P. CLUTTER.

Witnesses:

MAX H. SROLOVITZ,

MARIE H. ZBIERA.