

J. P. COHNEN.

MATRESS.

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1,004,745.

Patented Oct. 3, 1911.

Fig. 1.

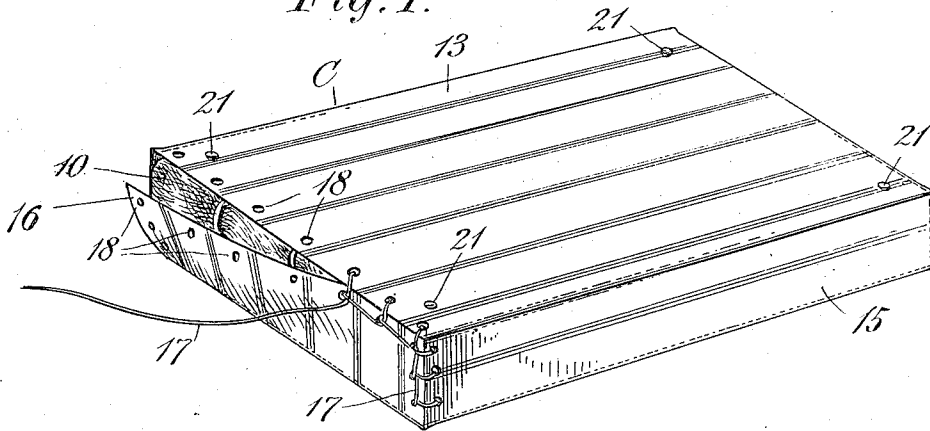


Fig. 2.

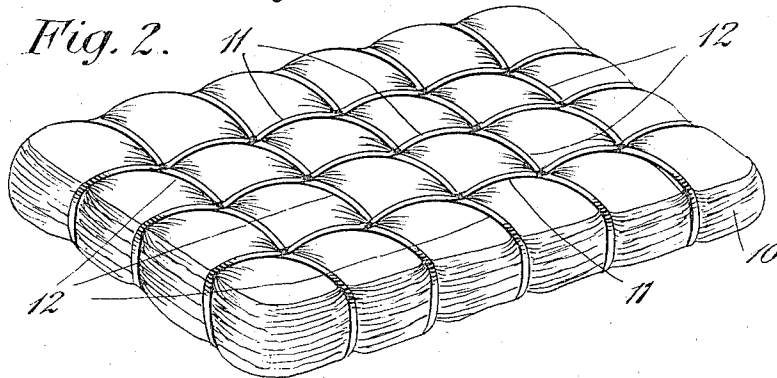
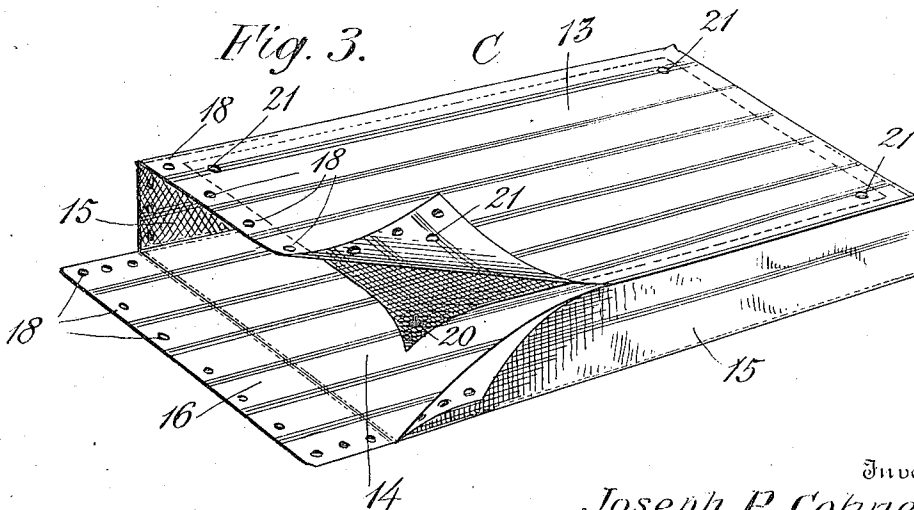


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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MATTRESS.

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To all whom it may concern:

Be it known that I, JOSEPH P. COHNEN, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Mattresses, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to mattresses, and has for one of its objects the provision of a mattress the outer covering or "tick" of which may be removed and replaced at will, thus permitting the same to be washed without interfering with the filling which may be of any desired quality of material.

15 The invention has also for its object the combination with such removable covering, of a shield or sheet of moisture-proof material, which is also detachably secured to the inner side of the top cover, and therefore protects the mattress proper against being spoiled, especially in the case of illness, the entire cover and shield being adapted to be separately cleansed and sterilized.

20 A further object of the invention resides in the particular construction of the mattress, which may be built up from any desired material, such as hair, cotton, excelsior or combination of such material, this material being "bound-in" by tapes which surround the same at right angles and at certain intervals, the entire inner mattress being tufted at the points of intersection of the tapes.

25 Further objects of the invention will hereinafter appear and be particularly defined in the claim.

30 The invention has been clearly illustrated in the accompanying drawings, in which similar characters denote similar parts, and in which—

35 Figure 1 is a perspective view of a complete mattress embodying my invention; Fig. 2 is a perspective view of the inner member or filling, *per se*, and Fig. 3 represents the mattress case empty, and also the shield attached to the upper sheet of the cover or case.

40 Referring to the drawings, the numeral 10 denotes the inner filling, or the mattress proper, which is preferably formed of felt, but may be of any desired material or combination of materials. This material being therefore of a more or less fluffy nature, is "bound-in" by a series of spaced longitudi-

45 nal tapes 11, which entirely surround the same; while another series of tapes 12 bind the material laterally and cross the longitudinal tapes. In order to give a certain degree of solidity and compactness to this material, the mattress is tufted at the points of intersection of the two sets of tapes, (see Fig. 2). By this organization I am enabled to produce an independent filling of any desired material; by virtue of the spaces between the tapes, I am enabled to have access to every part of this filling, for the purpose of loosening the material, or "renovating" it without loosening the tapes. The tufting can be very strong inasmuch as tape of great strength and density may be used, its flexibility not entering into consideration at all because the material is higher in the squares formed by the crossing tapes. Also, for this reason, the tapes themselves constitute what may be termed "handles", whereby the filling may be held while the case is peeled off, or whereby it may be transported without fear of tearing the material.

50 The filling above described is placed, in its original self-contained form, into a case C formed of the usual "ticking" and comprising top and bottom sheets 13, 14, side walls 15 and end walls 16, preferably one of the latter being left disconnected from the top and both sides (see Fig. 3), but adapted to be closed, in the manner shown in Fig. 1, by lacing 17 passing through eyelets 18, provided in the abutting edges of the flap 16 and the case-sides. By virtue of this lacing, these adjacent edges will be drawn together or "bunched" thus producing the same result as the other seams of the case, each edge being thus reinforced to form an approximately square corner, even under tension, and therefore adding to its clean-cut appearance.

55 As above stated, my invention comprises as one of its features a shield, detachably secured to the underside of the top-cover 13, so as to protect the top-surface of the mattress or filling 10. This shield consists preferably of a sheet of rubber, or rubber-faced material held on the cover 13 in any desired manner, as for instance by buttons or snaps 20 adapted to engage sockets 21, as shown, so that the shield can be readily removed or replaced, when the case C has been turned "inside-out." As the shield is held at least on its four corners, it follows that the filling

may be removed without disarranging the shield and case. In a like manner, the filling can be as readily placed into the case, or the case with the shield may be pulled
5 over the filling.

From the foregoing it will be understood that the assembled mattress will present perfectly smooth and even surfaces all around; that the accumulation of dust in the tufts
10 will be prevented; that the entire article consists of three distinct elements which can be easily disassembled, renovated, and cleaned, and which presents a neat appearance throughout. Furthermore, by virtue of the
15 shield being completely covered, the naturally cold surface of the rubber will not be felt, or its presence will not be manifest to a patient for the reason that all special preparations in that direction will be obviated.

20 Many changes may be made in the manner

of forming the filling, and in the assembling of the several parts, without departing from the spirit of the invention.

I claim:

A mattress comprising a filling formed of 25 soft fibrous material, tapes directly engaging and tying but not inclosing said material and crossing each other angularly to form means for manipulating said material as a unit, tufting passing through said tapes at 30 their points of intersection, and also through the material, and an independent plain case for removably receiving said filling.

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

JOSEPH P. COHNEN.

Witnesses:

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