Oct. 22, 1929. P. TUFENKJIAN 1,733,034

MATTRESS

Filed Oct. 8, 1928 2 Sheets-Sheet 1

Fig. 1.

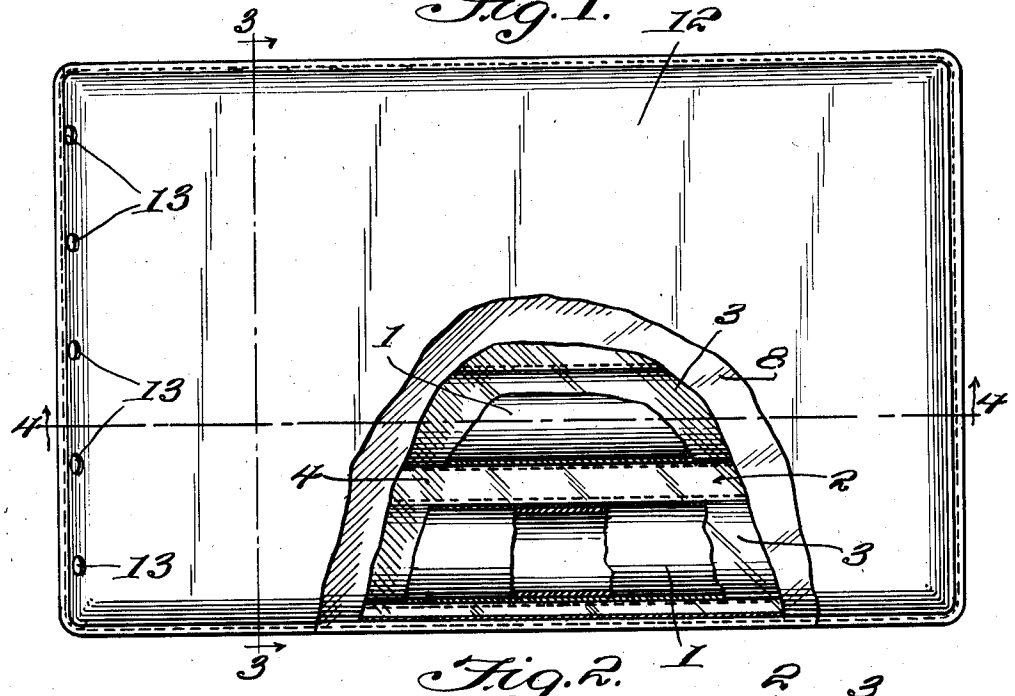
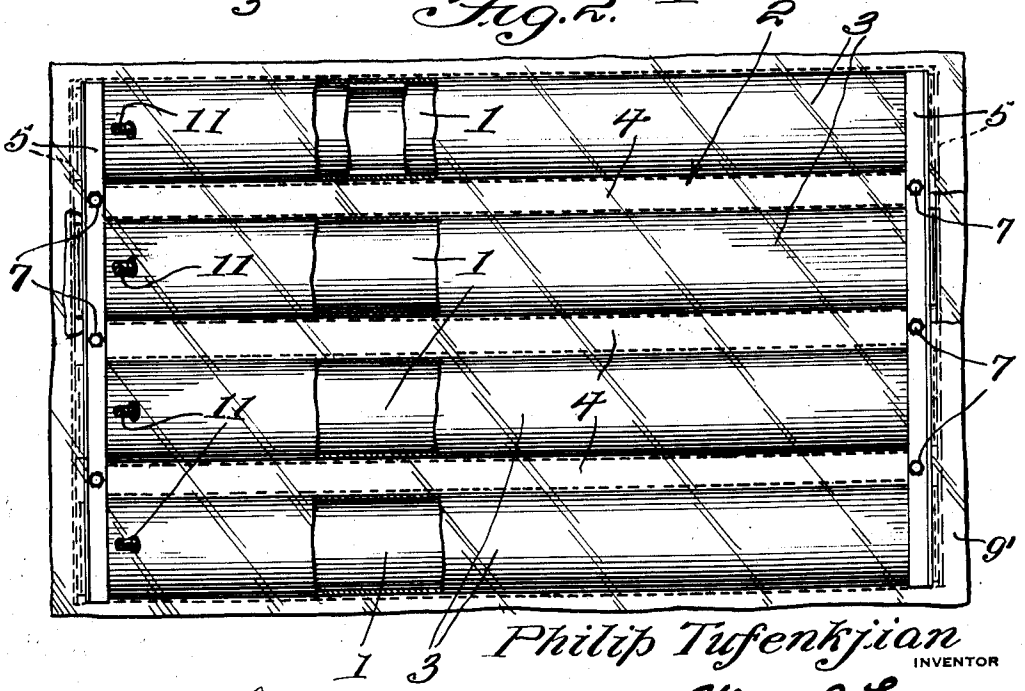


Fig. 2.



Philip Tufenkjian
INVENTOR

BY Victor J. Evans
ATTORNEY

J. L. Wright
WITNESS:

Oct. 22, 1929. P. TUFENKJIAN 1,733,034

MATTRESS

Filed Oct. 8, 1928 2 Sheets-Sheet 2

Fig. 3.

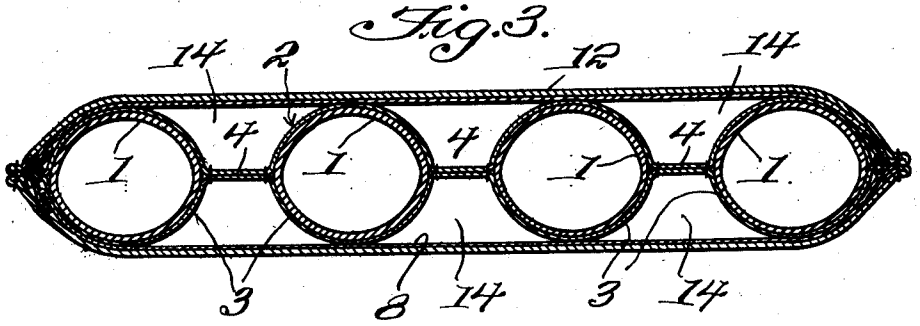


Fig. 4.

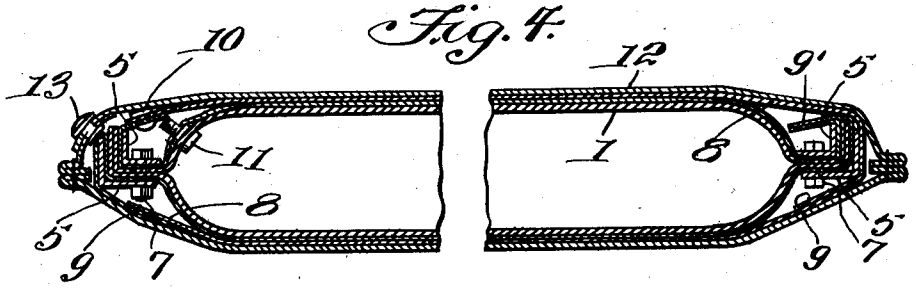


Fig. 6

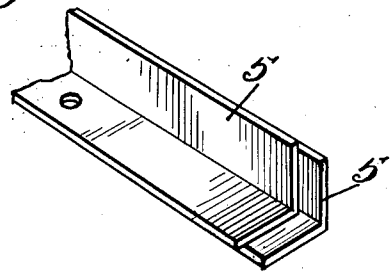


Fig. 5.

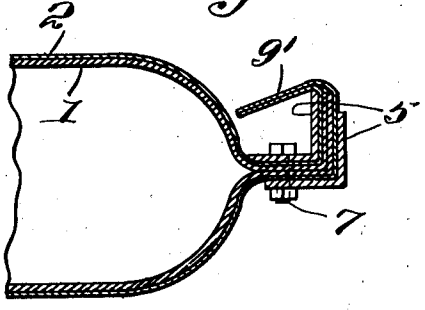
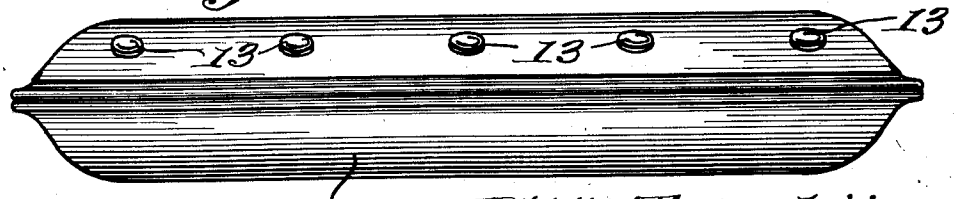


Fig. 7.



Philip Tufenkjian
INVENTOR

BY Victor J. Evans
ATTORNEY

J. L. Wright
WITNESS:

Patented Oct. 22, 1929 1,733,034

UNITED STATES PATENT OFFICE

PHILIP TUFENKJIAN, OF BOSTON, MASSACHUSETTS

MATTRESS

Application filed October 8, 1928. Serial No. 311,123.

This invention relates to improvements in pneumatic mattresses, cushions and the like, the general object of the invention being to provide a plurality of tubes in the body of the device, with means for inflating the tubes, so that when the tubes are inflated, the body of the device will be expanded and thus form a pneumatic mattress or cushion which will resiliently support the user so that he can rest upon the same with great comfort.

Another object of the invention is to provide clamping means for the ends of the tubes and for connecting the tubes with part of the mattress or cushion, with means whereby access can be had to the valve stems of the tubes to enable the tubes to be inflated or deflated.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claim.

In describing the invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a plan view of a mattress or cushion, with parts broken away to show the interior construction.

Figure 2 is a plan view with portions of the covers removed and parts broken away to show the interior construction.

Figure 3 is a section on line 3—3 of Figure 1.

Figure 4 is a section on line 4—4 of Figure 1.

Figure 5 is an enlarged sectional view through one end of the device.

Figure 6 is a detail view showing the clamping members.

Figure 7 is an end view of the device.

As shown in these views, I provide a plurality of tubes 1 formed of rubber or other resilient material, these tubes being held in spaced relation by a cover 2 which is formed with the casings 3 to receive the tubes, the portions of the cover between the casing forming the strips 4 which are centrally arranged with respect to the tubes when the tubes are inflated. A pair of angle-shaped bars 5 is used to clamp the ends of the tubes at each end of the device, these bars acting to close the ends of the tubes in an airtight manner and also to connect the tubes together in spaced relation. One bar of each pair fits in the other bar, with the ends of the tubes between them, as shown in Figures 4, 5 and 6 and bolts 7 pass through the bars to hold them in clamping position. The ends of the cover 2 also pass between the bars, with the lower ends extending downwardly and inwardly and fastened to a second covering 8, as shown at 9. The upper ends of the cover 2 pass upwardly and inwardly, with one end fastened to the covering 8 and the other end detachably fastened to said covering 8 by the snap fasteners 10, this latter end and covering enclosing the valve stems 11, of ordinary construction, and one of which is placed in each tube adjacent one end thereof. Thus by detaching the fasteners 10, access can be had to the valve stems so as to inflate or deflate the tubes. As will be seen, these valve stems lie in a pocket formed by the inflated ends of the tubes and the vertical flanges of the clamping bar.

An outer or main covering 12 is placed over the entire device, one end of this covering 12 being open so that the rest of the device can be placed therein and the edges forming the opening are connected together by the snap fasteners 13.

Thus it will be seen that I have provided a pneumatic mattress or cushion, the air containing portions of which are formed of tubes spaced apart and provided with independent means for inflating them. Thus a pneumatic cushion is formed, only portions of which contain air, though it will be seen that when the tubes are inflated, air chambers 14 are formed between the tubes and portions of the coverings which also act as resilient supporting means. This mattress or cushion will yieldingly support the user so that he can lie upon the mattress or rest upon the cushion with great comfort.

By making the pneumatic means separate, if one or more should become damaged, the remaining ones would still hold the device inflated and some of the means can be in-

flated to a greater extent than the other means so that the cushion or mattress can be made to assume different shapes, when in use.

If desired, the end 9′ of the covering 2 need not be attached to the covering 8 at the end of the cushion opposite to that end which carries the valve stems. This arrangement is shown in Figures 4 and 5.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What I claim is:—

A mattress or cushion of the class described comprising a covering formed with a plurality of spaced casings, an inflatable tube in each casing, two pairs of clamping bars, each pair acting to close the ends of the tubes at one end of the device and for closing each end of the covering, the ends of the tubes and the two parts of the casing passing between the bars of each pair, said bars being of angle shape in cross section, a valve stem adjacent one end of each tube, a covering enclosing the parts and having an opening therein for exposing the stems, said last mentioned covering forming spaces where it passes over the bars, with the stems in one of said spaces, detachable means for closing the opening, an outer covering having an opening therein through which the parts are introduced thereinto and detachable means for closing said opening.

In testimony whereof I affix my signature.

PHILIP TUFENKJIAN.