

P. KLIMOWICZ & J. S. WORZALLA.

MATTRESS.

APPLICATION FILED NOV. 9, 1908.

965,637.

Patented July 26, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

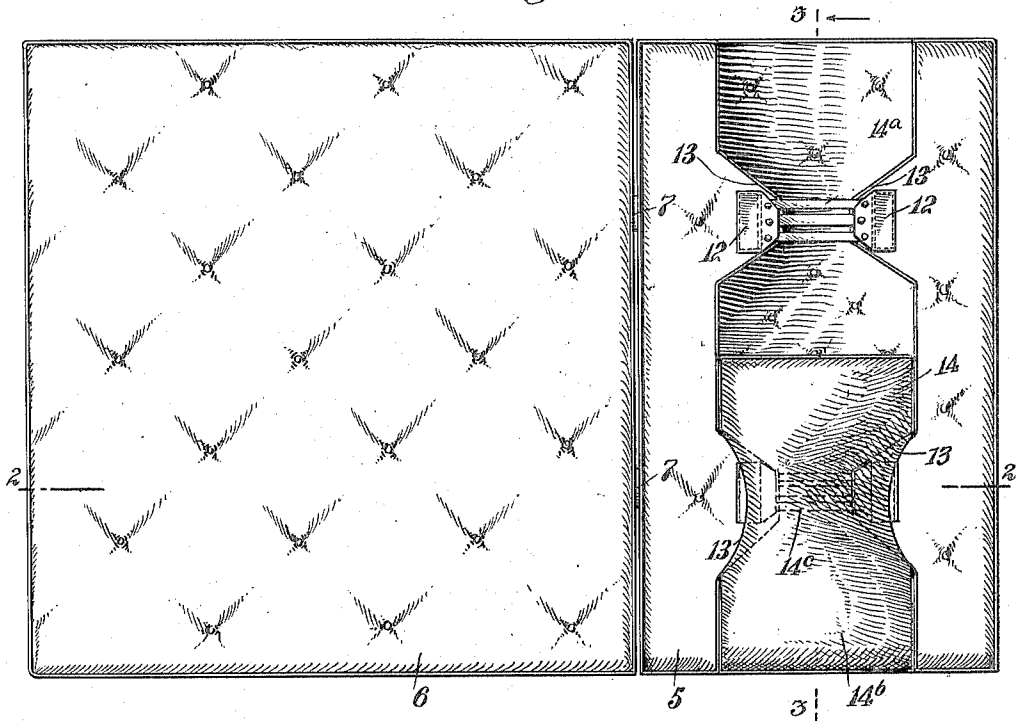


Fig. 2.

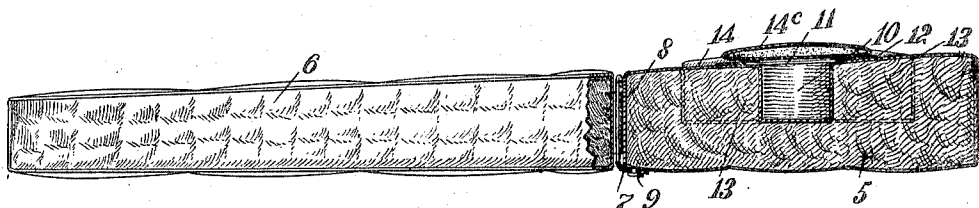
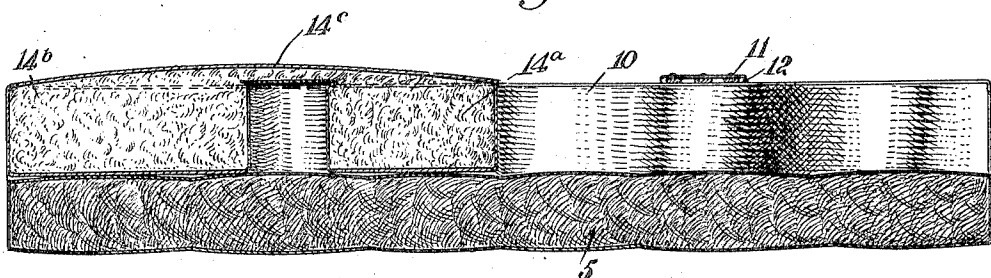


Fig. 3.



WITNESSES

Geornaylor
W. S. Sells

INVENTORS

Paul Klimowicz,
John S. Worzalla,

Mum & Co.
ATTORNEYS

P. KLIMOWICZ & J. S. WORZALLA.

MATTRESS.

APPLICATION FILED NOV. 9, 1909.

965,637.

Patented July 26, 1910.

2 SHEETS—SHEET 2.

Fig. 4.

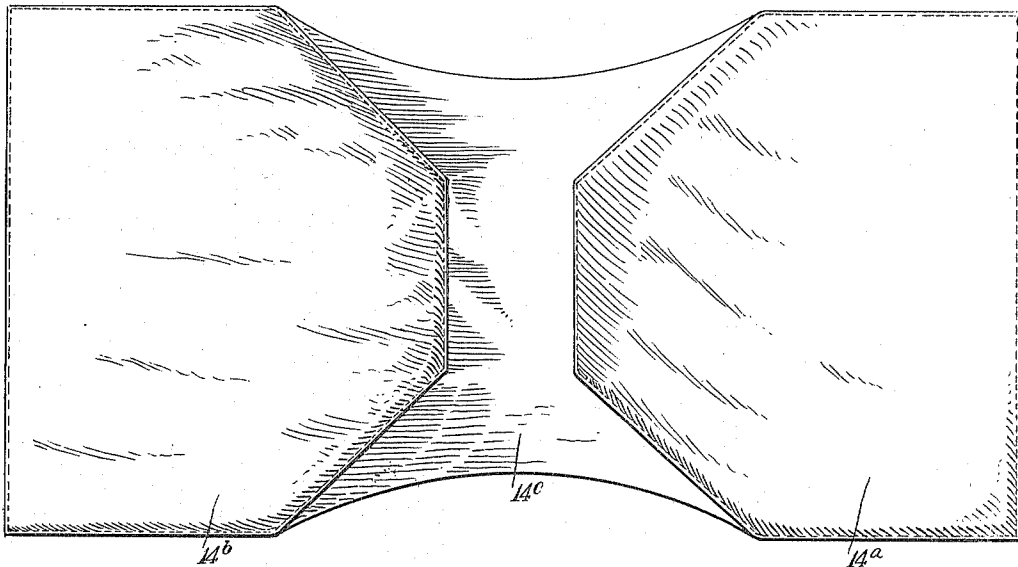
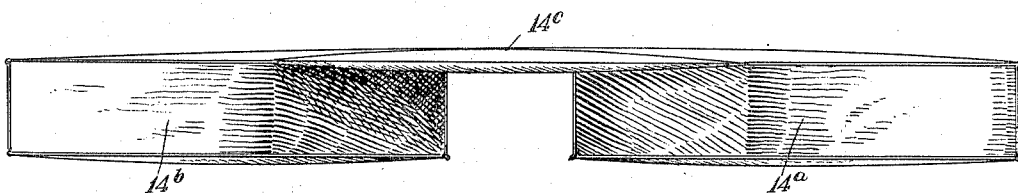


Fig. 5.



WITNESSES

Geo. Wrayton
W. S. Hall

INVENTORS

Paul Klimowicz,
John S. Worzalla,
BY *Munn & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

PAUL KLIMOWICZ AND JOHN S. WORZALLA, OF STEVENS POINT, WISCONSIN.

MATTRESS.

965,637.

Specification of Letters Patent.

Patented July 26, 1910.

Application filed November 9, 1909. Serial No. 527,020.

To all whom it may concern:

Be it known that we, PAUL KLIMOWICZ and JOHN S. WORZALLA, citizens of the United States, and residents of Stevens Point, in the county of Portage and State of Wisconsin, have invented a new and Improved Mattress, of which the following is a full, clear, and exact description.

The invention is an improvement in mattresses of the character disclosed in Letters Patent Number 929,449, granted to us July 27, 1909, wherein the head portion of the mattress is provided with padded grooves or depressions to receive the shoulders, causing them to be thrown back and permitting the chest to fully expand in the act of breathing, at the same time distributing the weight of the body on the mattress with more uniformity than is possible with mattresses as ordinarily constructed.

The present invention contemplates a mattress of the same general character, in which a groove is provided to receive the shoulders, arms, etc., with the groove filled with one or more removable cushions having a filling relatively softer than the filling of the mattress, each cushion being constructed of two sections spaced apart and connected together by an intermediate pad, the same affording a lateral support to the shoulder when the sleeper lies on his or her side, or a support for the neck when lying on the back, the pad preferably seating on an elastic web bridging a contracted portion of the groove.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a plan of a mattress constructed in accordance with our invention, showing one of the cushions in place in the groove and the other removed; Fig. 2 is a longitudinal section of the mattress on the line 2—2 of Fig. 1; Fig. 3 is a cross-section of the mattress on the line 3—3 of Fig. 1, looking in the direction of the arrow. Fig. 4 is an inverted plan of one of the cushions, and Fig. 5 is a side view of the same.

We have shown the mattress embodying our invention as constructed for a double bed and made of two sections 5 and 6 respectively, the sections being detachably connected together by straps 7 and loops 8, the loops 8 being secured to the end of one

section of the mattress and the straps 7 each permanently fixed at one end to the opposite section of the mattress and arranged to pass through the loop, with the opposite end provided with a snap button 9 for securing it on or adjacent to the under side of one of the mattress sections. The head portion or head section 5 of the mattress is provided with a groove 10 extending crosswise thereof, with the ends of the groove expanded in width; and if the mattress be constructed for a double bed the intermediate portion of the groove is also similarly expanded, as clearly shown in Fig. 1, forming the groove with two intermediate portions of contracted width, each of which is bridged over by a number of elastic tapes 11, with the ends of the tapes detachably connected by buttons or other devices to tabs 12, attached to the upper face of the mattress. The walls of the groove at each side of the contracted portions present approximately semi-circular projections 13, the outer of which provides a support for the pillow, and the inner serving to support either side or back of a sleeping person, depending on his or her position.

Fitting within each half length of the groove and conforming to the shape thereof is a removable cushion 14 constructed of two sections 14^a and 14^b, spaced apart and connected together, as shown in Fig. 3, by an intermediate pad 14^c, the sections of the cushion being arranged to seat in the opposite expanded portions of the groove and the pad to seat and be principally supported on the elastic tapes 11. The top of the pad is continuous and unbroken with the tops of the cushion sections, with the pad of a width to overlap the portion of the mattress immediately at each side of the contracted portion of the groove 10 and cover the tapes 11. The sections 14^a and 14^b of the cushions are filled with a relatively softer material than the filling of the mattress, such, for example, as goose-down, so that they will readily sink under the weight of the body, the pad 14^c being also filled with the same or similar material but stuffed slightly tighter than the cushion sections. When a person is sleeping on the side, the shoulder is laterally supported by the pad, thus distributing the weight of this portion of the body over a larger area and placing less stress on the side of the body below the armpit. The center pad

also serves to support the neck when the person is sleeping on the back, in which case the shoulders sink into the groove of the cushion sections, throwing the shoulders back and allowing the chest to have its full expansion.

5 With the body in this position the inner portions of the expanded parts of the groove receive the elbows, and the outer portions receive the forearms when the arms are thrown
10 back from the elbow joint. By reason of the detachable application of the web at the contracted portions of the groove, the tapes may be readily renewed when desired.

Having thus described our invention, we
15 claim as new and desire to secure by Letters Patent:

1. A mattress having a groove in its upper face near the head arranged to receive the shoulders, and a removable cushion arranged in the groove, having a filling of a relatively softer material than the filling of the mattress into which the shoulders are adapted to sink below the adjoining portion of the body.

25 2. A mattress having a groove in its upper face near the head, and a cushion removably arranged in the groove, composed of two sections spaced apart, with an intermediate connecting pad.

30 3. A mattress having a transversely-arranged groove in the upper portion thereof near the head, provided with an intermediate contracted portion, an elastic support bridging the contracted portion of the
35 groove, and a cushion arranged within and

conforming to the groove, having an intermediate pad seating on the elastic support.

4. A mattress having a groove in its upper portion, arranged near the head, provided with an intermediate portion of contracted width, a web bridging the contracted portion of the groove, and a cushion relatively softer than the mattress, removably arranged in the groove, composed of two sections spaced apart, with an intermediate
40 connecting pad arranged to seat on and be supported by the web.

5. A mattress having a groove in its upper portion arranged near the head and extending transversely thereof, and cushions
50 relatively softer than the mattress removably arranged within the grooves, each cushion having an intermediate portion of contracted width.

6. A mattress having a groove in its upper portion arranged near the head, a cushion relatively softer than the mattress removably arranged within and fitting the groove and composed of two sections spaced apart, with an intermediate connecting pad,
55 60 and an elastic support for the pad.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

PAUL KLIMOWICZ.
JOHN S. WORZALLA.

Witnesses:

D. I. SICKLETEEL,
FRANK L. GABRYSEK.