

[54] **SAFETY DEVICE FOR FLUID FILLED MATTRESSES**

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[58] Field of Search: 5/348-350, 60, 5/90; 4/177, 174; 269/327; 128/9

[56] **References Cited**

UNITED STATES PATENTS

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[57] **ABSTRACT**

In order to prevent flooding in the event of a leakage or break in a fluid filled mattress, the mattress is surrounded by a lining in the bed frame or the like, and the lining has a drainage outlet connected to a safety bag under the bed, whereby the water escaping from the mattress into the lining is drained into the safety bag below the bed; means being provided for draining the water out of the safety bag at will; there may be provided also a cover over the top of the fluid filled mattress to completely enclose the mattress in the bed.

6 Claims, 2 Drawing Figures

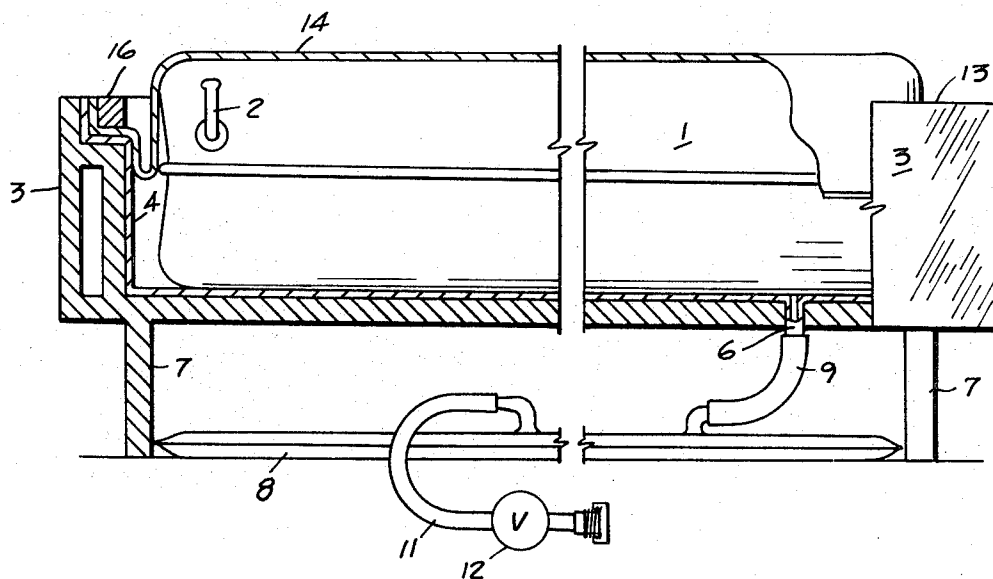


Fig. 1.

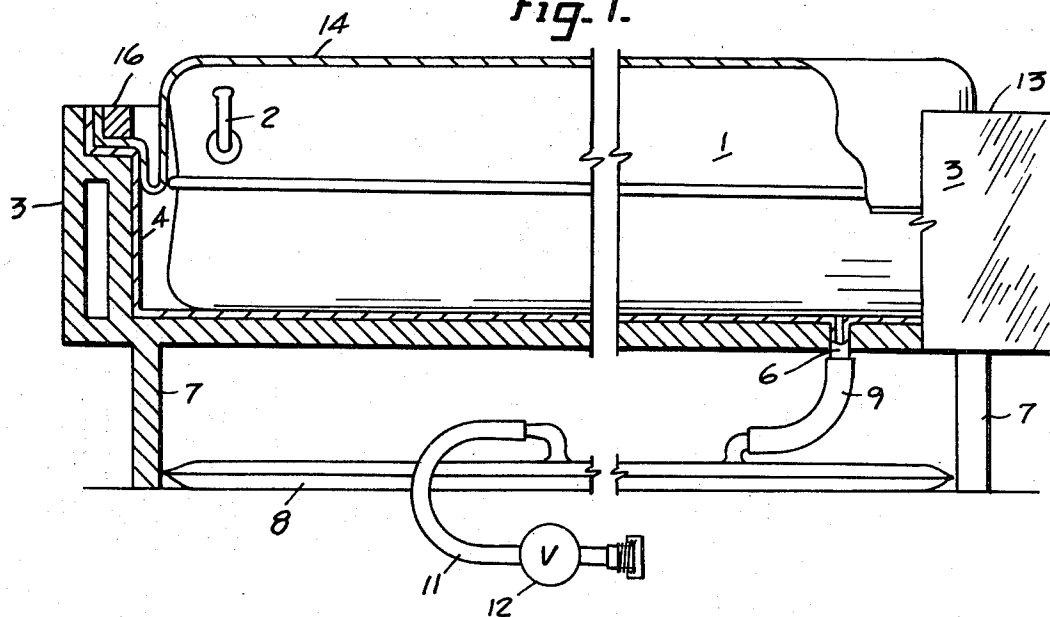
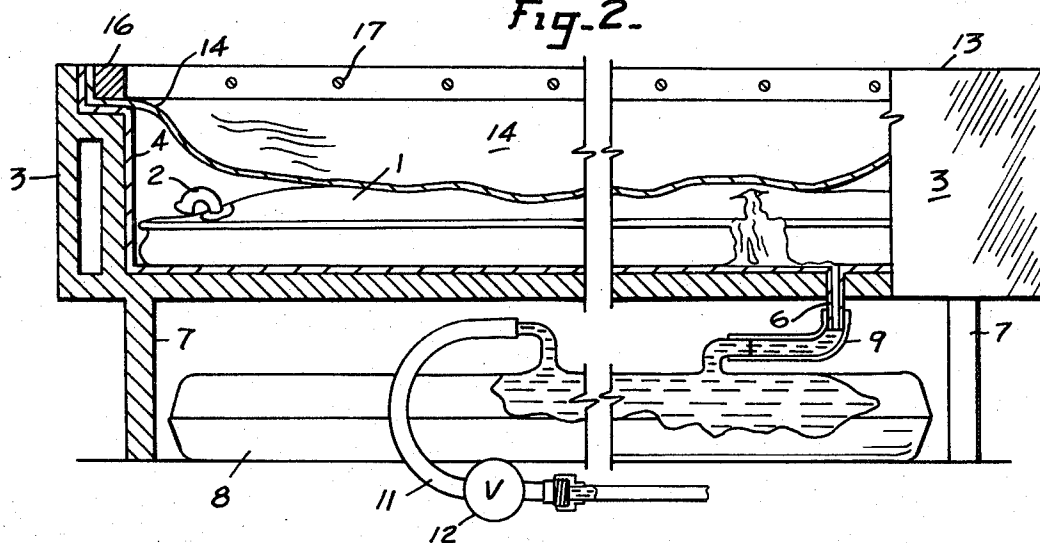


Fig. 2.



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SAFETY DEVICE FOR FLUID FILLED MATTRESSES

BACKGROUND OF THE INVENTION

One of the most important risks of fluid filled mattresses or beds is the danger of being punctured or otherwise developing a leak whereby the fluid escapes and floods the environment. Such flooding may result in short circuits of electric wiring, and other extensive damage. The primary object of this invention is to provide means whereby the fluid escaping from the mattress is contained in a waterproof lining surrounding the mattress and to provide means for draining the escaped water from the lining through a safety bag below the bed.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a fragmental cross-sectional view illustrating the fluid filled mattress and the safety bag in relative position.

FIG. 2 is a fragmental sectional view illustrating the escape of fluid into and through the safety bag.

BRIEF DESCRIPTION

A fluid filled mattress 1 made out of a flexible firm bag, which is adapted to be filled through a filling valve 2, is placed into a bed 3. The bed has a waterproof lining 4 covering the bottom and sides and ends of the bed so as to completely surround and confine the mattress 1 in the bed 3. On the bottom of the lining 4 is a drainage conduit 6 which extends through the bottom of the bed. The bed 3 is provided with legs 7 or similar supports to space the bottom of the bed from the floor. In the space between the legs 7 is provided a safety bag 8 and the drainage conduit is connected by a suitable flexible hose 9 to the top of the safety bag 8 so as to drain the escaping fluid out from the lining into the safety bag 8. The safety bag 8 has an outlet conduit 11 provided with a suitable valve closure 12 whereby the bed 8 can be connected to a suitable hose for the purpose of further draining the escaped water to some suitable location.

Usually the mattress 1 extends above the top 13 of the bed 3 so as to facilitate the person going to bed. Consequently if fluid escapes from the fluid filled mattress 1 into the bag it ultimately would flow over the top of the bag. In draining the fluid from the bag the level

can be properly reduced. In fact, all or most of the fluid can be drained out of the bag. As an additional safety measure, a flexible covering 14 is extended over the top of the mattress 1 as shown in FIG. 1. The edges of the lining 4 and the top covering 14 are secured together against the top of the bed in such a manner as to form waterproof joints, for instance, suitable blocks 16 are secured over the upper edges of the lining 4 and covering 14 by means of suitable screws 17. The portion of the block 16 above or near the filling valve 2 is separately removable for access to the filling valve 2 when needed. As of the present both the lining 4 and the cover 14 as well as the auxiliary bag 8 are made of strong plastic sheet material so as to be flexible but collapsible.

I claim:

1. The combination with a fluid filled mattress, of a waterproof container surrounding the bottom and sides of said mattress, and controlled means leading from the lower portion of said container for draining fluid escaped from said fluid filled mattress into said container, said controlled drainage means including a safety bag, a drainage connection from the lower portion of said container to said safety bag for gravity flow of fluid, and controlled outlet from said safety bag.
2. The invention specified in claim 1, and said container including a frame, and means to form a compartment under said frame to accommodate said safety bag.
3. The invention specified in claim 1, and said container including a frame, a waterproof lining in the frame, and said drainage means extending from said waterproof lining through the bottom of said frame.
4. The invention specified in claim 1, and said fluid filled mattress being collapsible.
5. The invention specified in claim 2 and said fluid filled mattress and said safety bag each being collapsible.
6. The invention specified in claim 3, and a waterproof flexible covering secured to said frame near the top thereof over said mattress and being sealed around its edges to prevent overflow of fluid from said container.

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