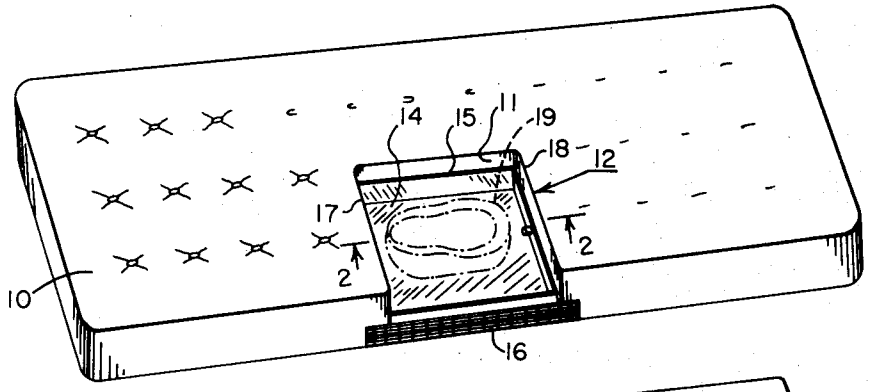
July 28, 1964 R. J. HENRY 3,142,070

HOSPITAL AND INVALID MATTRESSES

Filed April 4, 1963

Fig. 1



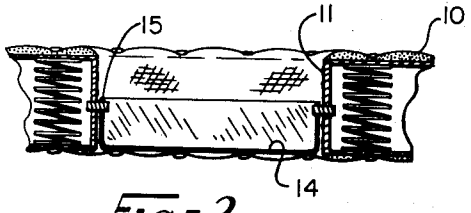


Fig-2

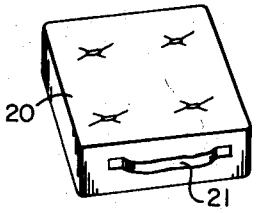


Fig-3

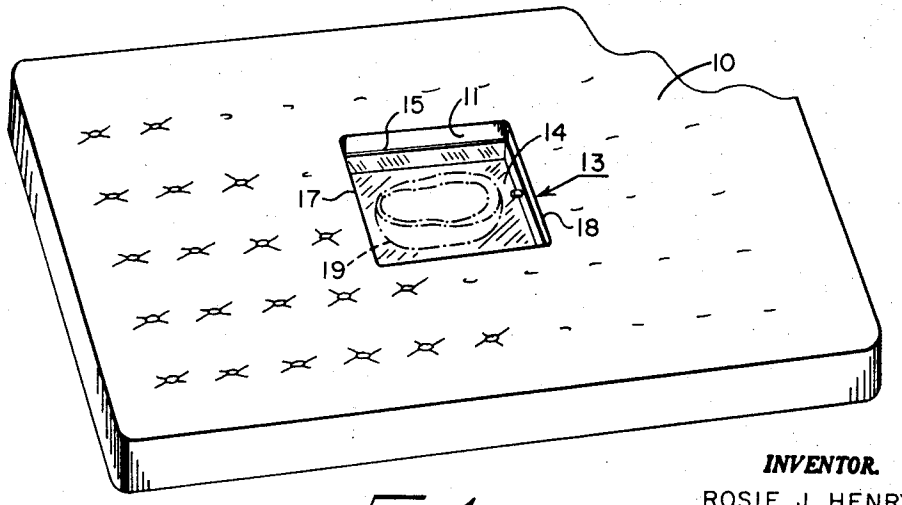


Fig-4

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HOSPITAL AND INVALID MATTRESSES

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2 Claims. (Cl. 5—91)

This invention relates to improvements in mattresses, and specifically mattresses for hospital installations, and for patients and invalids under home care, particularly where a patient is considerably overweight.

Nurses and orderlies have been injured in attempting to raise a patient sufficiently to insert a bed pan, the lifting being necessary when the patient is helpless, or under doctor's orders not to exert themselves, under which conditions it may require two persons to raise the patient sufficiently to insert and remove the bed pan.

With my invention it is merely necessary for one nurse or orderly to roll the patient on his side, remove the filler, and insert the bed pan and roll the patient back, thus eliminating the intense exertion required under present conditions.

The objects and advantages of the invention are as follows:

First, to provide a mattress for patients and invalids which will eliminate the necessity of lifting a person for use of a bed pan or the like.

Second, to provide a mattress which will expedite the care of patients in hospitals and the like.

Third, to provide a mattress which is substantially uninterrupted for normal use.

Fourth, to provide a mattress with a recess to receive a bed pan or the like, and to provide a filler for the recess in the form of a mattress section so as to make the mattress substantially continuous for conventional usage.

Fifth, to provide the recess with a moisture proof lining and which lining reverses with reversal of the mattress.

In describing the invention reference will be had to the accompanying drawings, in which:

FIG. 1 is a perspective view of a mattress with one form of my invention applied thereto.

FIG. 2 is a section taken on line 2—2 of FIG. 1.

FIG. 3 is a perspective view of the filler or mattress section which is removed and replaced when the bed pan is to be used.

FIG. 4 is a perspective view showing another form of my invention, with the recess formed substantially centrally of the mattress.

In its broadest terms, the invention consists of a conventional mattress provided with a recess to receive a bed pan or the like following removal of a mattress section, with the mattress section replaceable following removal of the bed pan, and requiring merely rolling the patient on his side for the respective removal and replacement.

The mattress **10** is of normal construction with the exception that a passage **11** is first formed through the mattress, either in one side as indicated at **12**, or about centrally of the mattress as indicated at **13**, this latter arrangement probably being the most satisfactory, as it retains the remainder of the mattress in better form through use.

The recess is provided with a moistureproof lining **14**, which is secured to the mattress wall **11** intermediate its height as indicated at **15**, so that when the mattress is inverted, the lining will move to the opposite position, turning inside out.

When the recess is formed in one side of the mattress as shown in FIG. 1, it should extend about to the center, and should be provided with a tie member **16** which be applied centrally or as shown, to maintain the two ends

of the mattress in relative positions, and is preferably made the full height so as to retain the mattress in either position.

The recesses are preferably made of just sufficient length **17** and **18** to freely receive the bed pan **19** between the walls.

The filler or mattress section **20** is provided with a strap handle **21** and is formed of the same material as the mattress, and is made to easily fit in the recess to make the mattress continuous when normally used.

I claim:

1. The combination with a mattress having a centrally disposed opening extending entirely through said mattress, the mattress surrounding the entire wall of the opening and the opening being large enough to receive a bed pan; of

(*a*) a flexible moisture-proof lining having a bottom and an integral flexible flange extending around the entire edge of the bottom and having a depth substantially equal to one-half the height of said mattress; and

(*b*) means attaching said flexible flange to the wall of said mattress opening at approximately the intermediate height of said opening so that the lining bottom will substantially lie in the plane of the mattress bottom;

(*c*) said flexible lining being adapted to invert itself and turn inside out when the mattress is turned upside down so that the lining bottom will again lie substantially in a plane that lies flush with the bottom of the mattress.

2. In combination:

(*a*) a mattress having an opening extending entirely through the mattress, the opening also extending through one side of the mattress so that access to the opening can be made from this said mattress side;

(*b*) a tie member disposed on the mattress side that has the opening dividing this side into two spaced-apart portions, the ends of the tie member being secured to the two spaced-apart side portions and said tie member bridging the opening for maintaining the two spaced-apart side portions in proper positions;

(*c*) a flexible moisture-proof lining having a bottom and an integral flexible flange extending around the entire edge of the bottom and having a depth substantially equal to one-half the height of said mattress; and

(*d*) means attaching said flexible flange to the wall of said mattress opening at approximately the intermediate height of said opening so that the lining bottom will substantially lie in the plane of the mattress bottom;

(*e*) said flexible lining being adapted to invert itself and turn inside out when the mattress is turned upside down so that the lining bottom will again lie substantially in a plane that lies flush with the bottom of the mattress.

(*f*) said flexible flange having a portion paralleling the inner surface of said tie member.

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