

Sept. 11, 1951

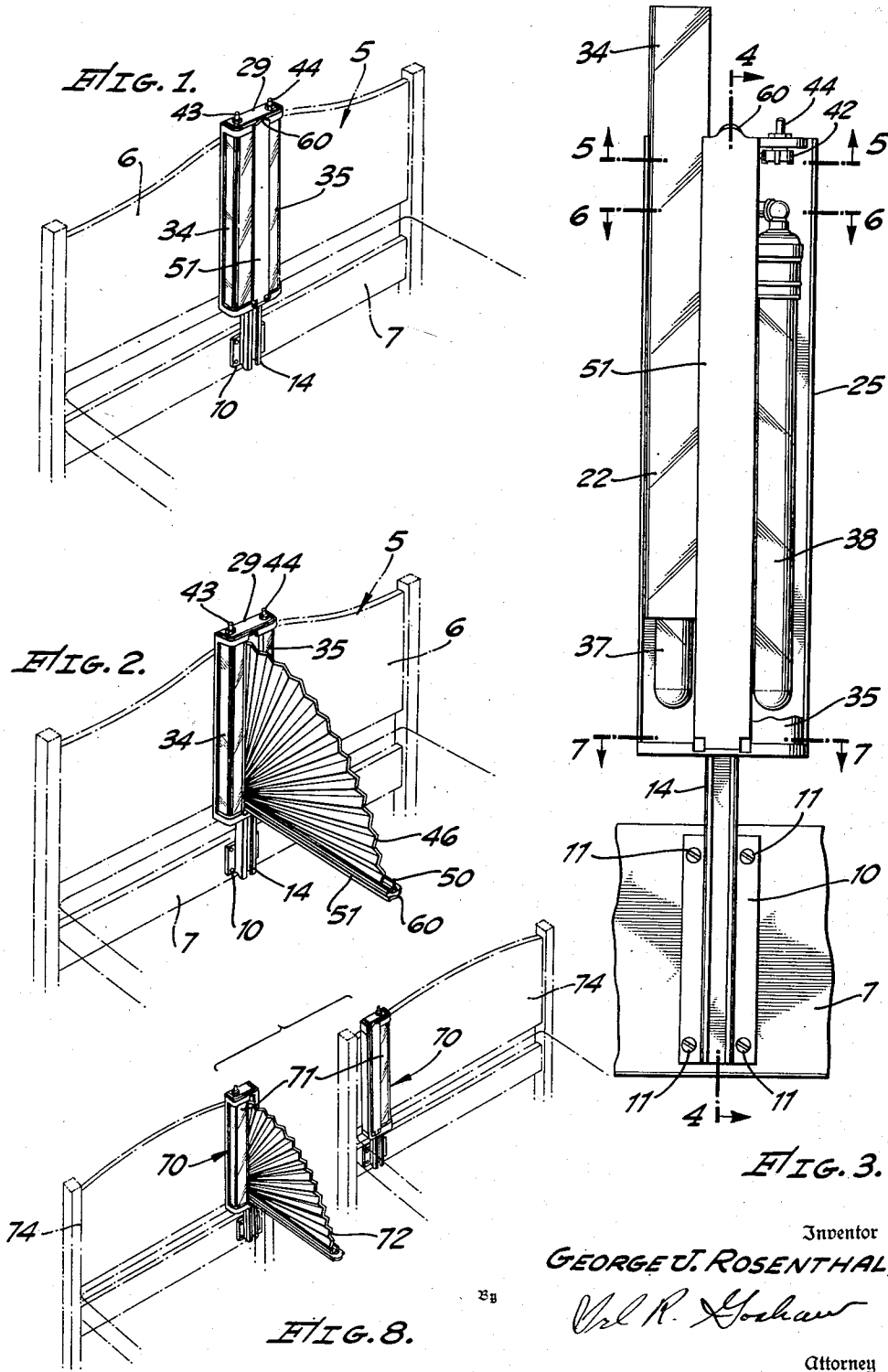
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2,567,528

ADJUSTABLE BED LAMP WITH EXTENSIBLE SHIELD

Filed May 10, 1947

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

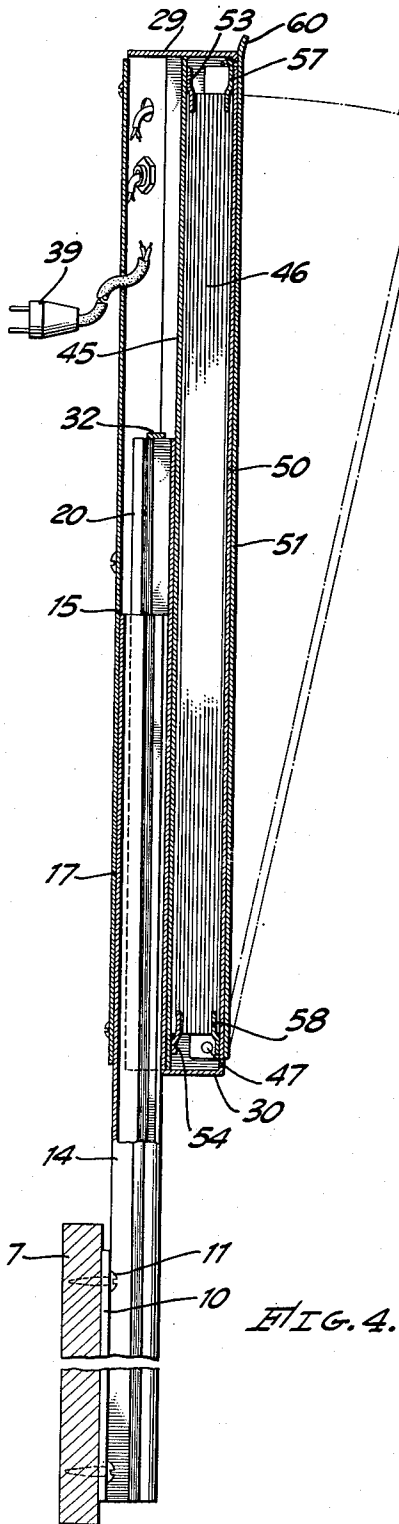


FIG. 4.

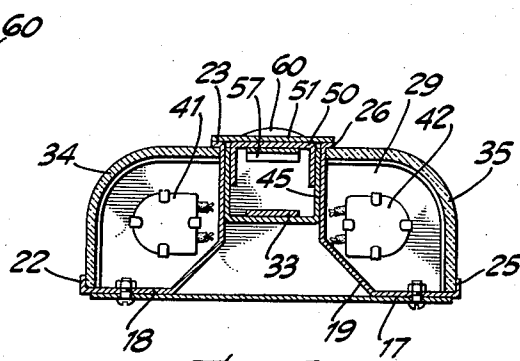


FIG. 5.

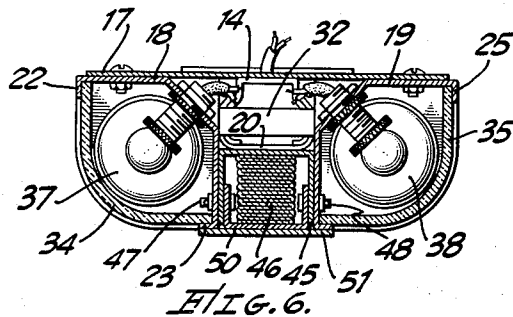


FIG. 6.

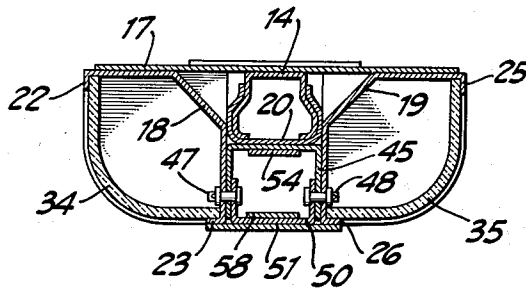


FIG. 7.

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ADJUSTABLE BED LAMP WITH
EXTENSIBLE SHIELD

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9 Claims. (Cl. 240—4)

1

This invention relates to light sources, and particularly to reading lamps adapted to be attached to the headboard of a bed.

Lamps for this general purpose are well-known, a lamp having adjustable apertures being disclosed in U. S. Patent No. 2,225,727, of December 24, 1940, while an adjustable shade bed lamp is shown in U. S. Patent No. 1,906,626, of May 2, 1933. The present invention, however, is directed to a unit combining two lamps, both of which are under the control of the occupants of a bed, and a light shield or screen which may eliminate the light from one side of a double bed or from one of two twin beds. A light screen for bed use is known, one being shown in U. S. Patent No. 1,979,520, of November 6, 1934.

In the lamp of the present construction, however, the shield or screen is a part of the lamp unit and is in the form of a foldable fan which may be pulled down when desired, and which, when not in use, may be compactly folded between the two lamps. The unit is arranged to be slideably attached to a mount on the bottom board of a bed so that the unit may be quickly detached from the bed so as not to interfere with the making of the bed. It is also constructed in a manner which permits the ready exchange of lamps and the removal of the light transmitting windows for cleaning.

The principal object of the invention, therefore, is to facilitate the lighting of selected portions of a bed, or the lighting of selected beds.

Another object of the invention is to provide an improved bed reading lamp.

A further object of the invention is to provide an improved bed reading lamp, the direction of illumination of which is controllable by a shield for eliminating illumination from certain portions of a bed.

A still further object of the invention is to provide an easily attachable and detachable reading lamp for a bed which may be used for two persons or for one person, while eliminating the illumination from another occupant of the bed.

Although the novel features which are believed to be characteristic of this invention will be pointed out with particularity in the appended claims, the manner of its organization and the mode of its operation will be better understood by referring to the following specification read in conjunction with the accompanying drawings, forming a part hereof, in which:

Fig. 1 is a perspective view of the invention shown attached to a bed;

2

Fig. 2 is a perspective view of another adjustment of the invention shown in Fig. 1;

Fig. 3 is a front, elevational view of the invention showing one light transmitting window partially removed;

Fig. 4 is a cross-sectional view of the invention taken along the line 4—4 of Fig. 3;

Fig. 5 is a cross-sectional view of the lamp unit taken along the line 5—5 of Fig. 3;

Fig. 6 is a cross-sectional view of the lamp unit taken along the line 6—6 of Fig. 3;

Fig. 7 is a cross-sectional view of the lamp unit taken along the line 7—7 of Fig. 3; and,

Fig. 8 is a perspective view showing a modification of the lamp attached to a single bed.

Referring now to the drawings, in which the same numerals identify like elements, a double bed 5 has a headboard 6 and a bottom cross board 7. Attached to the lower board 7 is a mounting plate 10 fastened to the board by a plurality of screws 11. The plate 10 has attached thereto, by welding or otherwise, a U-shaped channel member 14 which extends upwardly a predetermined distance, such as to point 15. This channel member is the means for attaching the lamp unit to the bed.

The lamp structure consists of a substantially rectangular frame including a back plate 17 with channels 18 and 19, each channel having two sides at right angles to one another interconnected by a 45° section, and a cooperating U-shaped channel member 20. The channel 18 has bent-over edges at 22 and 23 and channel 19 has bent-over edges at 25 and 26. The elements 17, 18, 19, and 20 may be attached together in any suitable manner, such as by spot welding or by screws. The top of this elongated unit just described has a cover 29 and a bottom member 30, the latter not extending completely across to the back plate 17, thus providing a rear opening for the insertion of the U-shaped member 14 mounted on the board 7 into the channel member 20. A stop 32 is provided across the top of the channel 20 to limit the downward position of the lamp unit, although it is to be understood that the lower end of the lamp usually rests on the mattress or pillows of the bed.

Curved windows 34 and 35, which may either be transparent or translucent, are slideable within the edges 22, 23, 25, and 26 until they are resting on the bottom plate 30. Thus, the windows 34 and 35 are quickly detachable for cleaning and attachable after cleaning.

Mounted on the 45° portions of the channels 18 and 19 between the back and side portions

3

thereof are a pair of elongated lamps 37 and 38 which have conductors leading from a power source through the plug 39 and switches 41 and 42, the switches being connected so that actuation thereof by handles 43 and 44 will energize either lamp 37 or lamp 38 as desired.

Positioned in a square U-shaped channel member 45 between the parallel sides of channel members 18 and 19 is a fan 46 pivoted at the bottom on pins 47 and 48 through a front U-shaped member 50 having a cover plate 51. The fan itself may be of stiff cloth or of paper, one edge of which is attachable to the U-shaped member 45 through a series of fingers as shown at 53 and 54. The other edge of the fan is likewise connected to the front U-shaped member 50 by a series of fingers, such as shown at 57 and 58. A latch element is formed by bending over the upper tip of finger 57 attached to the member 50, this bent-over end sliding under the bent-down edge of cover plate 29. The front plate 51 is extended above the cover 29 and slightly bent over to form a handle 60 for the fan.

Thus, to lower the fan, it is only necessary to grasp the handle 60 and pull it downwardly, the result being as shown in Fig. 2. Thus, if both occupants of the double bed 5 desire to read both lamps 37 and 38 will be energized and the fan will be folded away as shown in Fig. 1. Should either occupant desire to read, and not the other, then one of the desired switches will be operated to energize only one lamp, and the screen will be lowered, as shown in Fig. 2. The screen 46 may be also constructed as a separate unit and fitted into the U-shaped member 45 in any suitable manner, such as by pins 47 and 48, or by spring pressed detents.

Referring now to Fig. 8, the units 70 shown therein are the same as the unit above described, except that they consist of only a single lamp 71 and a fan 72. In this modification, one of the lamps has been removed from each of the structures and the shield placed on the side of each single bed 74 adjacent to another single bed. In this manner, two single lamp structures are employed instead of the double lamp unit shown in Figs. 1 and 2.

I claim:

1. A lamp structure comprising a vertically elongated frame plate having a plurality of channel members on one side and extending parallel along said plate adjacent two vertical edges thereof, vertically elongated light sources positioned in each of said channels to illuminate a certain horizontal area, said channels being open on two sides thereof, a light transmitting means adapted to be positioned in said openings in said channels, and a vertically elongated foldable opaque means positioned adjacent and parallel with said channels between said light sources and adapted to be withdrawn and replaced at will to prevent light from one of said sources from illuminating a certain horizontal portion of said area.

2. A bed reading lamp unit comprising a vertically elongated back plate, a pair of vertically elongated channels attached to one side of said plate adjacent the vertical edges of said plate and having longitudinal openings along approximately two sides thereof, a pair of light emitting windows in the openings in said channels, a pair of vertically elongated lamps positioned between said light emitting windows and the back of said channels to illuminate a certain horizontal

4

area, and an opaque member hinged at the bottom of said plate and unfoldable between spaced parallel sides of said channels and extensible outwardly and downwardly to shield a certain horizontal portion of said area.

3. A bed reading lamp unit in accordance with claim 2, in which a U-shaped channel member is attached between said channels and said back plate and a second U-shaped channel member slidable in said first U-shaped channel member is provided for supporting said lamp unit.

4. A bed reading lamp unit comprising a vertically elongated rectangular frame having a mounting plate, parallel channel members attached to one side of said plate adjacent opposite edges thereof, horizontally curvilinear light transmitting windows supported by said channel members, separately energizable illumination means behind said windows to illuminate a certain horizontal area, and a foldable opaque member hinged at the bottom of said frame and entirely disposable between said windows, said opaque member being extensible outwardly and downwardly from the top of said frame.

5. A bed reading lamp unit in accordance with claim 4, in which a U-shaped channel is attached to said frame between said channel members and a fixed cooperating channel of the same shape is slidable within said U-shaped channel for supporting said unit.

6. A bed reading lamp comprising a frame having a vertically elongated back plate, a pair of channels arranged parallel and attached to one side of said back plate, a pair of U-shaped members arranged back to back and attached between parallel sides of said channels, windows between the edges of said channels, and an extensible opaque member positioned in one of said U-shaped members and hinged at the bottom thereof.

7. A bed reading lamp in accordance with claim 6, in which individually energizable illuminating means are provided behind said windows.

8. A bed reading lamp in accordance with claim 7, in which a third U-shaped member is mounted and slidable within said other one of said pair of U-shaped members, said third U-shaped member supporting said lamp.

9. A bed reading lamp comprising a vertically elongated back plate, a pair of parallel channels attached to one side of said plate, a light transmitting window laterally positioned in each of said channels to illuminate a certain horizontal area and a foldable opaque member between said channels and hinged adjacent the bottom of said plate extensible outwardly and downwardly from the top of said plate to prevent light from one of said windows from illuminating a certain horizontal portion of said area.

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