June 17, 1930. D. B. McLEOD 1,764,220

LIGHT REFLECTING BED DEVICE

Filed Nov. 21, 1929

Fig. 1.

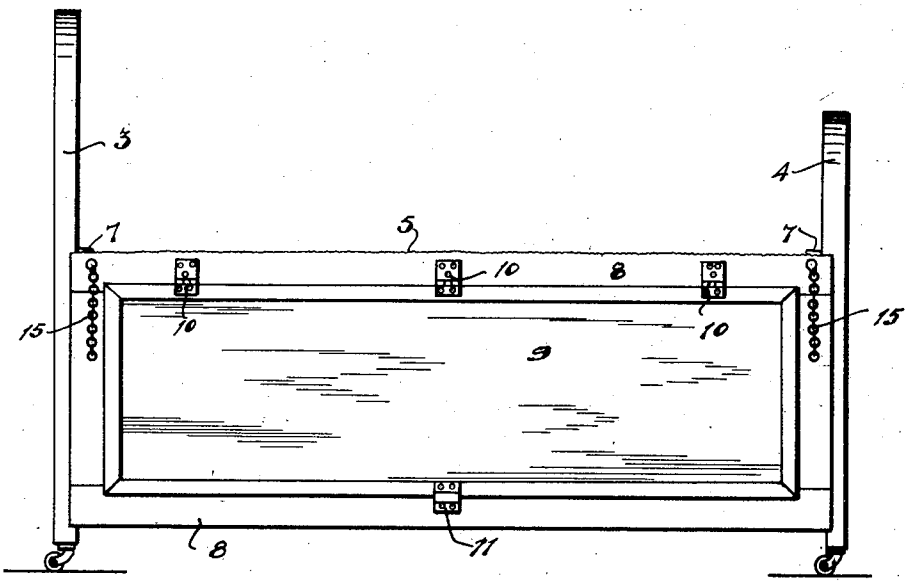
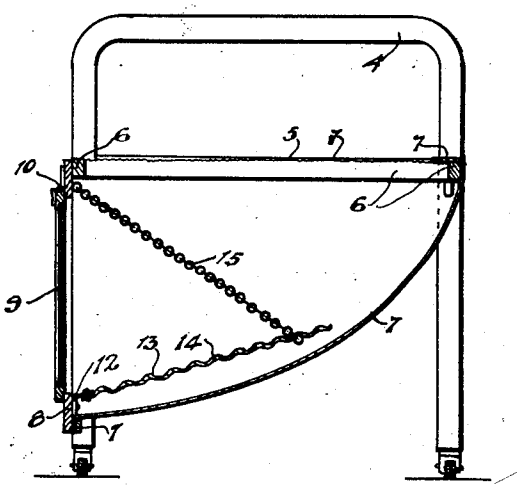


Fig. 2.



D. B. McLEOD
Inventor
Albert B. Dieterich
Attorney

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UNITED STATES PATENT OFFICE

DONALD B. McLEOD, OF VANCOUVER, BRITISH COLUMBIA, CANADA

LIGHT-REFLECTING BED DEVICE

Application filed November 21, 1929. Serial No. 408,857.

This invention relates to a light reflecting bed device for sick persons. Its object is to provide means for the more effective administration of light treatments to patients in bed.

The invention resides in the novel combination of parts for the purpose in view and comprises a substantially transparent supporting surface member for the patient to rest comfortably upon with adjustable reflecting means below it whereby light rays may be received and transmitted upwardly at various angles through the transparent fabric to the body of the patient while the latter is comfortably resting in a substantially horizontal position upon the partly transparent mattress member.

In the development of these objects I make use of a woven wire mattress formed of high grade fine spring steel, so that a flat and open weave may be attained, thus presenting a minimum of obstruction to the transference of the light rays to the patient. Over this may be placed if desired a thin sheet also of open weave.

Below the mattress the bedstead is closed in or curtained to exclude drafts—but on one side a framework supports a hinged window through the glass of which the light is admitted. To the inner face of the framework is hinged along the lower edge a mirror, the angularity of which in reference to the surface of the glass window or the side of the bed, is made adjustable whereby the incident and reflected rays of light may be directed as desired upon the patient from below the mattress.

The invention is more clearly described by the aid of the drawings herewith and which form a part of this application and in which:

Figure 1 shows a side elevation of a cot or bedstead into which the device has been incorporated, and

Figure 2 shows an end elevation of the same.

The numeral 3 indicates the head-rail of a bedstead of which 4 is the foot-rail. The surface-member of the mattress is shown at 5 and is preferably formed of fine spring steel wire with a flat open weave. This fabric is stretched upon the rectangular framework 6.

The space below the mattress is curtained in at the ends and at the bottom and one side by the curved curtain or screen 7, leaving thus one side unscreened. This is occupied by the framework 8 supporting the window 9 which is hinged at 10 and secured at 11.

On the inner face of the framework 8 and hinged on its lower member at 12 is a hinged mirror 14 supported and made adjustable by the chain 15.

The surface of the mirror 14 may be corrugated as shown at 13 or provided with any desired character of surface for the better diffusion or direct reflection of the rays, and the incidence of the latter may be so adjusted that a maximum of reflective effect is directed upon the underside of the body of the patient exactly as may be necessary.

Having now fully described my invention what I claim and desire to be protected in by Letters Patent, is:

1. A bed device for the light-ray treatment of sick persons comprising, a bedstead supporting a partly transparent mattress of wire-mesh fabric, a light reflecting surface-member adjustably secured to said bedstead whereby light rays may be received upon it and reflected upwardly upon the body of a patient.

2. A bed device for the clinical treatment of sick persons and comprising, a bedstead supporting a mattress of finely woven spring wire, an angularly adjustable member positioned below said mattress and having a light reflecting surface whereby light rays may be received angularly upon it and correspondingly reflected upwardly upon the

body of a sick person supported by said mattress.

3. A bed device for the light-ray treatment of sick persons comprising, a bedstead supporting a partly transparent mattress of wire-mesh fabric, a light reflecting surface-member adjustably secured to said bedstead whereby light rays may be received upon it and reflected angularly and upwardly upon the body of a patient, screening members surrounding the said bedstead below said mattress and adapted to be interposed between the mattress and the floor.

In testimony whereof I affix my signature.

DONALD B. McLEOD.