Dec. 28, 1948. D. C. TRAVIS 2,457,752

ADJUSTABLE LAMP FOR TILTABLE BEDS

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Fig. 2

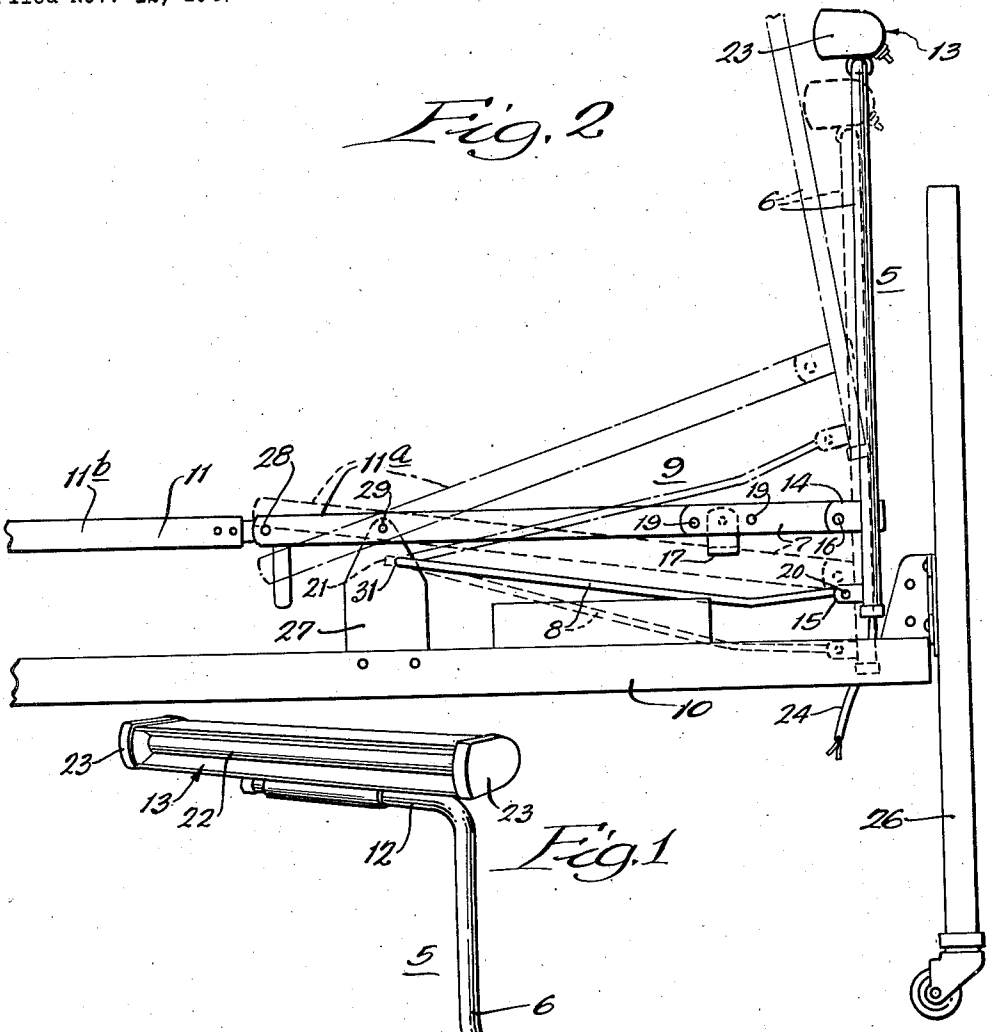
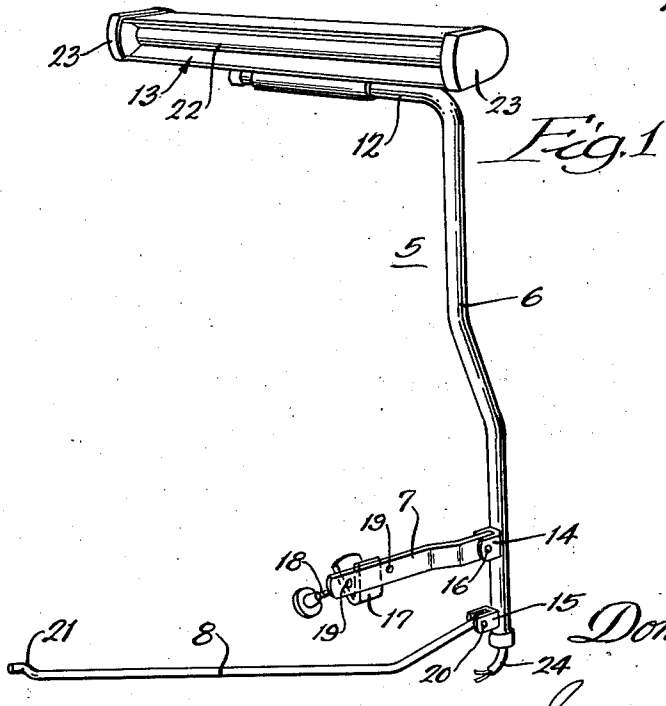


Fig. 1



Inventor:
Don Carlos Travis,
By Isaacs, Pond & Anderson
Attorneys.

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Fig. 3

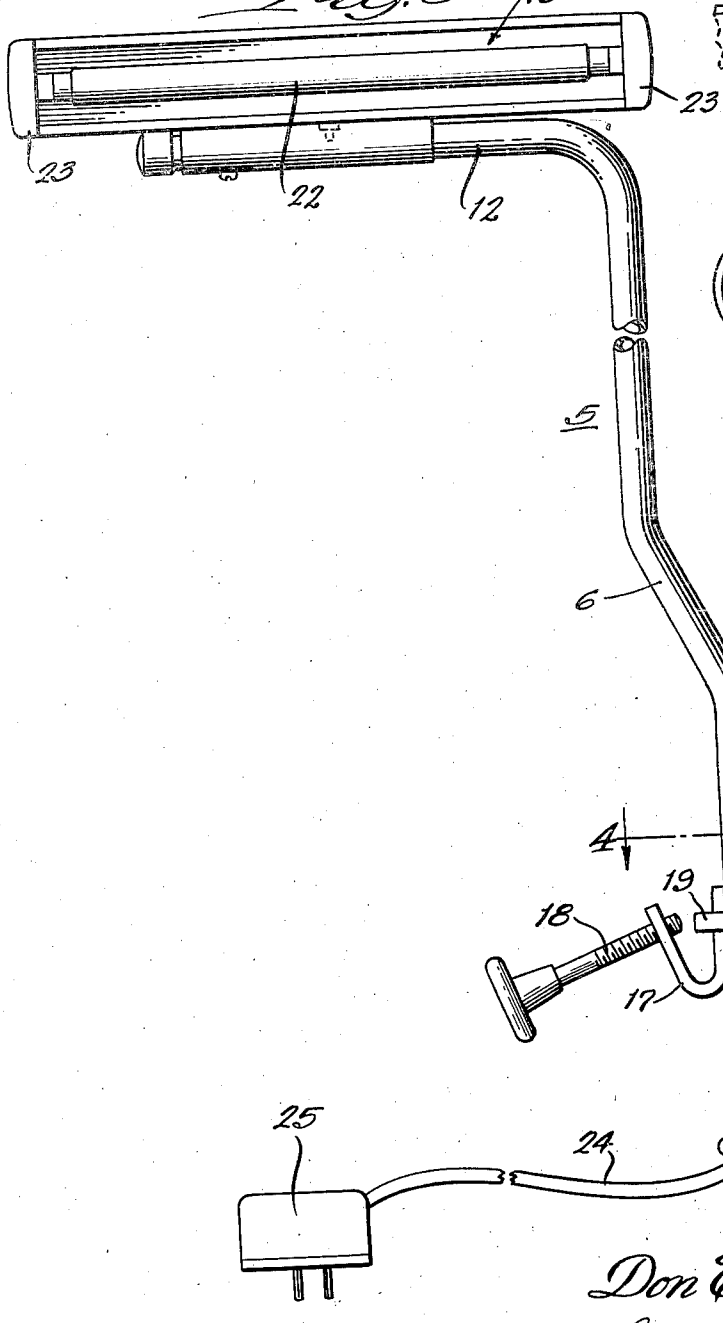
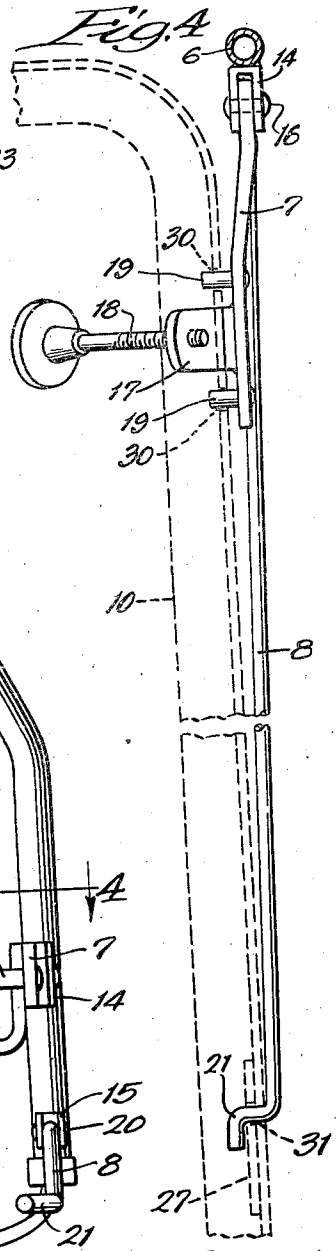


Fig. 4



Inventor:
Don Carlos Travis,
By Swank Pond & Henderson
Attorneys.

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UNITED STATES PATENT OFFICE

2,457,752

ADJUSTABLE LAMP FOR TILTABLE BEDS

Don Carlos Travis, Kenosha, Wis., assignor to Simmons Company, New York, N. Y., a corporation of Delaware

Application November 12, 1947, Serial No. 785,222

7 Claims. (Cl. 248—274)

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The main objects of this invention are, to provide an improved form of reading lamp for use with those types of furniture wherein the support for the body comprises hinged sections relatively adjustable for disposing the body of the occupant in various angular positions between the horizontal and vertical; to provide an improved form of mounting for a lamp of this kind which synchronizes an angular adjustment of the lamp with respect to the body support with any angular adjustment of said body support so that the lamp is always at the best possible position for illuminating any printed matter the occupant may want to read; and to provide an improved lamp, mounting, and shifting means of this kind which is very simple in construction, facile to attach to the furniture, and positive in operation.

In the accompanying drawings:

Fig. 1 is a perspective view of a lamp, with its mounting and operating parts, constructed in accordance with this invention;

Fig. 2 is a side elevation of the head end of a bed having relatively adjustable bed-bottom sections and whereto has been attached an improved lamp construction embodying this invention. The figure indicates in full, dotted, and dot-and-dash outlines various angular positions which the lamp post automatically assumes when the bed-bottom section, whereon the lamp is mounted, is shifted into positions above and below the normal horizontal position;

Fig. 3 is an enlarged front elevation of the improved lamp construction; and

Fig. 4 is a view taken on the line 4—4 of Fig. 3 showing in full outline the supporting bracket and operating link and their relationship to the side rail of a bed-bottom section and its supporting hinge plate, indicated in dotted outline.

A lamp construction 5 embodying this invention comprises a post or arm 6, a bracket 7, and an operating link 8. As will be pointed out presently, these parts are provided with means for convenient mounting of the lamp 5 on a bed 9, comprising a supporting frame or element 10 and a multiple bed-bottom section 11. The arrangement is such that the lamp 5 will be disposed in the angular position best suited for reading purposes by the occupant of the bed for any position to which the adjustable bed-bottom sections may be shifted.

The lamp post 6 as herein shown is of tubular form. The upper end 12 is bent at an angle to provide a support for a lamp 13. U-shaped blocks 14 and 15 are rigidly secured to the post 6 near the lower end thereof in spaced longitudinal relationship and to which are connected the bracket 7 and link 8 respectively.

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The bracket 7 is pivoted at 16 to the block 14, and at its outer end mounts a clamp 17 by means of which the bracket is rigidly secured to the side rail of one of the sections of the bed bottom 11. As clearly shown in the figures, the clamp 17 is a piece of metal in substantially the form of a V, having one leg thereof brazed or otherwise secured to the bracket 7 and supporting a threaded clamping pin 18 on the other leg. A pair of pins 19 are secured to the bracket 7 on opposite sides of the clamp 17 so as to coact with the clamping pin 18 to secure the bracket rigidly in place on one of the bed-bottom sections 11, as will appear more fully hereinafter. Intermediate its ends the bracket 7 is bent to slightly offset inwardly the end which supports the clamp 17 from the end attached to the block 14. This serves to space the lamp post 6 out from the side rail of the bed bottom 11, as shown in Fig. 4.

The operating link 8 is in the form of a rod hinged at 20 to the block 15 and formed at the opposite end 21 with angular offset adapted to be received in and extend through an aperture in a part of the bed frame 10, as will be pointed out directly.

The lamp 13, as herein shown, is preferably of the fluorescent type having a conventional bulb 22 mounted in a canopy 23. The usual lamp sockets are connected by an electric conduit 24, extending through the tubular lamp post 6, to a suitable plug 25.

The bed 9 wherewith this improved lamp has been particularly designed is of the type shown in co-pending application Serial No. 741,870, filed April 16, 1947. Its use of course is by no means limited to that type of bed. Such a bed has the frame or element 10 supported in the usual manner by a bedstead head 26 and a companion bedstead foot (not shown). A plate or bracket 27 secured to the frame 10 provides a pivotal mounting for the sectional bed bottom 11. As herein shown the bed bottom 11 comprises a back section 11*a* and a seat section 11*b* hinged together at 28 with the former hingedly supported at 29 on the plate or bracket 27.

These bed-bottom sections 11*a* and 11*b* are formed of the usual angle-iron material, with a wire fabric for supporting a mattress.

Near the head end, one of the side rails of the back section 11*a* (preferably at the left-hand side of the bed as viewed from the occupant's position on the bed) has formed therein, in the verti-

cally-disposed flange thereof, a pair of apertures 30. These are positioned so as to receive the pins 19 on the lamp post bracket 7, thereby co-acting with the threaded clamping pin 18 to rigidly secure the bracket 7 to the bed-bottom section 11a.

The plate or bracket 27 has an aperture 31 formed therein to receive the bent-over end 21 of the operating link 8. As shown in Fig. 2 this aperture is placed near the upper end of the plate 27. It must be in such a position that as the bed-bottom section 11a shifts on its pivot 29 the link 8 will effect the desired alteration in the angular disposition of the lamp post 6 relative to the bed-bottom section 11a.

As clearly appears from Fig. 2, the bed-bottom section 11a may be shifted either below or above a normal horizontal position. Although the angularity of the lamp post 6 with respect to the bed-bottom section 11a will not be altered materially when the bed-bottom 11 is shifted to an inclined position below horizontal, it is apparent from this view that the angularity of the lamp post 6 with regard to the bed-bottom section 11a is materially increased as the bed-bottom section 11a is shifted toward an upright position. It is when the bed-bottom section 11a is shifted toward a vertical position that the altered angularity of the lamp post with respect to the bed-bottom section 11a is most important. The more nearly the bed-bottom section 11a approaches the vertical position the more the lamp 13 needs to be shifted headwardly of the bed away from the head of the occupant lying on the bed-bottom section 11a. Such a headwardly shifting of the lamp 13 is needed to provide better illumination for any reading the occupant on the bed-bottom section 11a may want to do.

It will be obvious from the foregoing that any bed or chair with an adjustable body-supporting section provided with apertures 30 and 31 will accommodate a lamp construction embodying this invention.

Other variations and modifications in the details of structure and arrangement of the parts may be resorted to within the spirit and coverage of the appended claims.

I claim:

1. A lamp adapted for adjustable association with a pair of relatively movable members and comprising, a lamp post, means for hinging said post on one of said members, and means connecting said post to the other of said members whereby a relative movement of said members will automatically alter the angularity of said post with respect to said one member.

2. A lamp adapted for adjustable association with a pair of relatively movable members and comprising, a lamp post, a bracket hingedly connected to said post, means for attaching said bracket to one of said members, a link pivotally connected at one end of said lamp post, and means on the other end of said link for pivotal connection to the other said member whereby a relative movement of said members will automatically alter the angularity of said post with respect to said one member.

3. In a lamp for adjustable association with a body-supporting member shiftably mounted on a supporting element, the combination of a lamp-post mounting, a lamp at the upper end thereof, a bracket hingedly connected to said post, means on said bracket for rigidly clamping said bracket to said body-supporting member

with said post disposed at a predetermined angle to said member, a link hingedly connected to said post at a point spaced from the connection of said bracket to said post, and means on the opposite end of said link whereby it may be hingedly connected to said element whereby a relative movement of said member and element will automatically alter the angularity of said post with respect to said member.

4. In a lamp for adjustable association with a body-supporting member shiftably mounted on a supporting element, the combination of a lamp-post mounting, a lamp at the upper end thereof, a pair of U-shaped blocks secured to said post near the lower end thereof and spaced apart longitudinally of said post, a bracket having one end hingedly connected to the uppermost of said blocks, means fixed on the opposite end of said bracket for removably clamping said bracket rigidly to said body-supporting member so as to dispose said post at a predetermined angle to said member, and a link pivotally connected to the lower of said blocks and having the outer end thereof formed for insertion in an aperture in said supporting element whereby a relative movement of said member and element will automatically alter the angularity of said post with respect to said member.

5. The combination with a structure which includes a frame with a body-supporting member hingedly mounted thereon to assume different inclined positions between the horizontal and vertical, of a reading lamp mounted on said structure, and means automatically operated by the hinging movement of said body-supporting member for simultaneously adjusting the position of the lamp relative to said frame and relative to said body-supporting member so as to maintain said lamp in substantially correct reading position regardless of the inclination of said member.

6. The combination with a structure which includes a frame with a body-supporting member hingedly mounted thereon to assume different inclined positions between the horizontal and vertical, of a reading lamp which includes a supporting arm mounting said lamp on said structure with said arm disposed at a predetermined angle to said body-supporting member when said body-supporting member is in one of its extreme positions, and means connected to said lamp post and actuated by the hinging movement of said member out of said extreme position to alter the angularity of said arm relative to said member.

7. The combination with a structure which includes a frame with a body-supporting member hingedly mounted thereon to assume different inclined positions between the horizontal and vertical, of a reading lamp post, a bracket pivoted to said post, means on the opposite end of said bracket for removably attaching said bracket to said body-supporting member, and a link pivotally connected to said post at a point below said bracket connection, said link having its outer end shaped for insertion into an aperture on said frame whereby the hinging movement of said member will automatically alter the angularity of said post with respect to said member.

DON CARLOS TRAVIS.

No references cited.