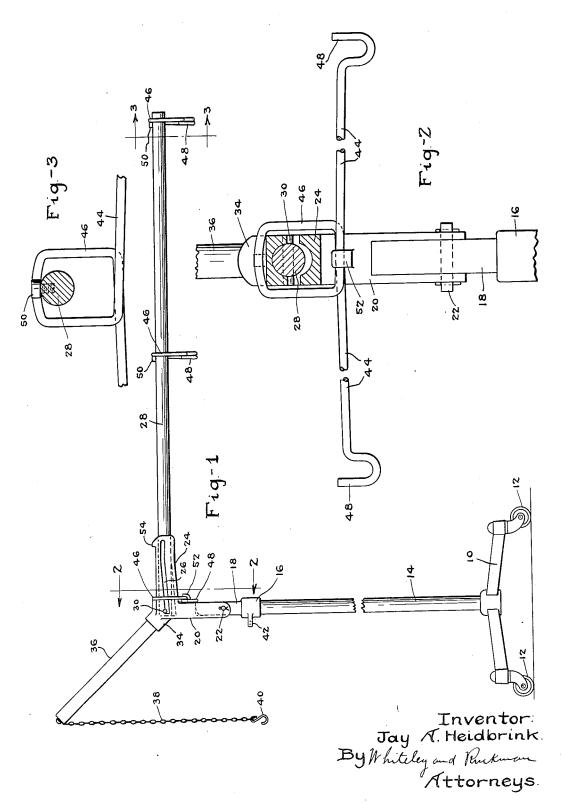
## J. A. HEIDBRINK

SUPPORT FOR OXYGEN TENTS AND OTHER ARTICLES

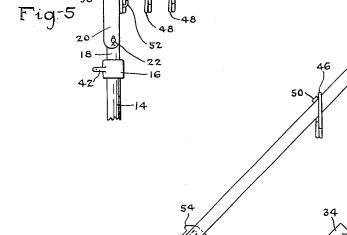
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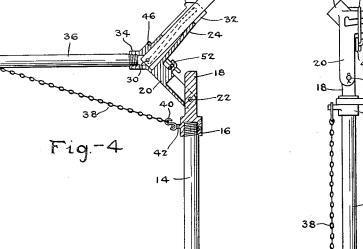
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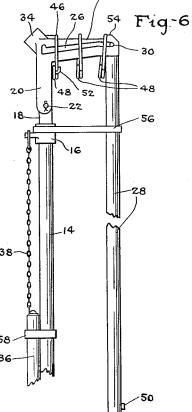


SUPPORT FOR OXYGEN TENTS AND OTHER ARTICLES

Filed July 14, 1933 2 Sheets-Sheet 2







Inventor:
Jay A. Heidbrink.
By Whiteley and Ruckman
Attorneys.

## UNITED STATES PATENT OFFICE

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## SUPPORT FOR OXYGEN TENTS AND OTHER ARTICLES

Jay A. Heidbrink, Minneapolis, Minn. Application July 14, 1933, Serial No. 680,433 10 Claims. (Cl. 135—3)

My invention relates to supports for oxygen tions of which are at the rear or adjacent the tents and other articles. One use to which my device may be applied is as a support for an oxygen tent of the nature disclosed in my prior 5 application Serial Number 567,404, filed October 7, 1931. In administering oxygen therapy and the like to patients such as pneumonia patients, for instance, the head of the patient is enclosed in a tent supported from above and to which 10 the oxygen or other gas is supplied from suitable apparatus. One of the objects of my invention is to provide a device by means of which the tent referred to may be supported in convenient and advantageous manner. Another object is 15 to provide a device which may be utilized as a support for various articles and which may be easily folded so as to occupy a minimum of space and which may be readily transported.

The full objects and advantages of my inven-20 tion will appear in connection with the detailed description thereof and the novel features of my inventive idea will be particularly pointed out in the claims.

In the accompanying drawings which illustrate 25 a practical embodiment of my invention,—

Fig. 1 is a side elevational view of the device in set-up condition. Fig. 2 is a view in vertical section on the line 2—2 of Fig. 1 taken on an enlarged scale. Fig. 3 is a view in vertical section on the line 3—3 of Fig. 1 taken on an enlarged scale. Fig. 4 is a side elevational view partly in section showing a supporting bar held in upwardly-inclined position. Fig. 5 is a fragmentary view in side elevation showing a device partly folded. Fig. 6 is a view in side elevation showing the device completely folded.

As shown in Fig. 1 of the drawings, a customary or suitable base 10 is mounted on caster wheels 12 and has a standard 14 extending up centrally 40 therefrom. The standard 14 preferably consists of a pipe section and the upper end thereof is externally threaded to receive a socket 16 formed on the lower end of a short flat bar 18. The bar 18 is straddled by the lower end of an arm 45 20 which is pivotally attached thereto by a pivot pin 22. This lower portion of the arm 20 is partially cut away so that the arm when in alinement with the bar 18 can swing in one direction only, as will be understood from Fig. 4. The 50 arm 20 carries a second arm 24 extending therefrom at right angles. The arm 24 is hollow and the forward portion thereof is cut away on the upper side as shown in Fig. 4. The two lateral sides of the hollow arm 24 are provided with 55 similar bayonet slots 26, the short angular por-

arm 20, as best shown in Fig. 6. The rear end of a supporting bar 28 is slidably mounted in the arm 24. This end of the bar 28 is provided with a pin 30 the ends of which project 60 in such manner as to be slidable in the longer portions of the slots 26. When the pin 30 is in its inward position as shown in Fig. 1, with the ends thereof in the short portions of the slots 26, the bar 28 is held firmly in alinement 65 with the arm 24. Upon slightly lifting the outer end of the bar 28 this bar may be slid outwardly into the position shown in Fig. 5 and then allowed to fold or drop into the position shown in Fig. 6 parallel with the standard 14. This is 70 permitted on account of the lower front portion of the arm 24 being cut away, as indicated at 32 in Fig. 4. The angle joining the arms 20 and 24 is provided with an internally-threaded socket 34 adapted to receive the externally-threaded end 75 of an arm or projection 36. A chain 38 is attached at one end to the outer end of the projection 36. The other end of the chain 38 carries a hook 40 adapted to be hooked into an eye 42 carried by socket 16. When this is done the 80 bar 28 will be held in the upwardly-inclined position shown in Fig. 4. The pivotal mounting of the arm 20 permits this movement. The bar 28 and the arm 24 are adapted to support a number or rods 44 which are in the nature of cross 85 arms. As shown, there are three of these rods. The middle of each rod 44 is formed into a loop 46 and its ends are provided with upwardlyturned hooks 48. The bar 28 is provided with two screws 50, one of which is near the outer end 90 thereof and the other end of which is near the middle. The heads of these screws extend up from the upper surface of the bar. The two outer rods 44 when the device is set up have the loops 46 resting upon the bar 28 just ahead of 95 the screws 50. The rear rod 44 has its loop 46 resting upon the arm 24 near the junction of the latter with the arm 20, which is provided with an upwardly-curved lug 52 behind which the lower portion of the loop 46 fits so as to 100 hold the rear rod 44 in the position shown.

The operation and advantages of my invention will be readily apparent in connection with the foregoing description and the accompanying drawings. The device is adapted for general use 105 when placed in the set-up condition shown in Fig. 1 so that the desired article or articles may be suspended from the several upwardly-turned hooks 48. For example, a tent such as previously referred to may be suspended over the head 110

of a patient. In order to provide proper accommodation to adapt the device to a patient reclining in bed, the tent may be suspended in canted position by placing the device as shown 5 in Fig. 4. In order to do this, the arm 36 is forced downwardly, and upon placing the hook 40 in the eye 42 the supporting bar 28 will be held in the upwardly-inclined position shown. When it is desired to fold the device from the 10 position shown in Fig. 1, the two forward rods 44 are first slid back so as to be carried by arm 24, as shown in Fig. 5. In order to retain these rods in this position, a shoulder 54 is provided on the forward end of the arm 24. Upon now 15 slightly lifting the forward end of the bar 28 this bar may be drawn forwardly to the extent permitted by the pin 30 sliding in the slots 26. The bar 28 will now fold down into the position shown in Fig. 6 and may be kept in place by 20 a clip 56 or other securing means engaging the bar 28 and the socket 16. The projection 36 is unscrewed from the socket 34 and left hanging from the chain 38. It may be kept in place by a clip 58 or other securing means engaging the 25 member 36 and the standard 14.

I claim:

1. In a device of the character described, the combination of a support, an arm extending out from said support, a supporting bar whose rear end is slidably attached to said arm, means associated with said bar for limiting its outward sliding movement, said arm being cut away to cause said bar to fold down when in its outward position, and cross arms slidably carried by said bar.

2. In a device of the character described, the combination of a support, an arm extending out from said support, a supporting bar whose rear end is slidably attached to said arm, means as-46 sociated with said bar for limiting its outward sliding movement, the forward lower portion of said arm being cut away to cause said bar to fold down when in its outward position and cross arms slidably carried by said bar.

3. In a device of the character described, the combination of a support, a hollow arm extending out from said support, the opposite sides of said arm containing longitudinal slots, a supporting bar whose rear end is slidably mounted in said hollow arm, projections carried by said rear end adapted to slide in said slots and limit the outward movement of said bar, the forward lower portion of said hollow arm being cut away to cause said bar to fold down when in its outward position, and cross arms slidably carried by said bar.

4. In a device of the character described, the combination of a base, a standard extending up from said base, a hollow arm extending out from 66 the upper end of said standard, the opposite sides of said arm containing longitudinal slots, a supporting bar whose rear end is adapted to slide in said hollow arm, and projections carried by said rear end adapted to slide in said slots and limit the outward movement of said bar, the forward lower portion of said hollow arm being cut away to permit said bar to then fold down into a position parallel with said standard.

5. In a device of the character described, the 50 combination of a base, a standard extending up from said base, a supporting bar slidably attached

at the upper end of said standard, means for holding said bar extending out from said standard when the bar is in inward position, means for causing the bar when slid outwardly to fold down into a position parallel with said standard, and cross arms slidably carried by said bar.

6. In a device of the character described, the combination of a base, a standard extending up from said base, a right-angle member having two arms one of which is pivotally attached to the upper end of said standard, means for holding said latter arm at times in alinement with said standard, means for holding said arms at other times in inclined relation to said standard, a supporting bar whose rear end is slidably attached to the other of said arms, and means for limiting the outward sliding movement of said bar, said last-mentioned arm being cut away to cause said bar to then fold down into a position parallel with said standard.

7. In a device of the character described, the combination of a base, a standard extending up from said base, a right-angle member having two arms one of which is pivotally attached to the upper end of said standard by a limited pivotal 100 connection for movement in one direction only from a position in alinement therewith, a detachable projection extending out from the angle of said right-angle member, a chain attached to the outer end of said projection and adapted to be 105 attached to said standard for holding said rightangle member in inclined position, a supporting bar whose rear end is slidably attached to the other of said arms, and means for limiting the outward sliding movement of said bar, said last- 110 mentioned arm being cut away to cause said bar to then fold down into a position parallel with said standard.

8. In a device of the character described, the combination of a base, a standard extending up 315 from said base, a supporting bar, means for holding said bar in position to extend out from the upper end of said standard and permit it to be folded down into a position parallel with said standard, and cross arms carried by said bar, said 120 cross arms having central loops encircling said bar whereby they are adapted to be slid thereon.

9. In a device of the character described, the combination of a base, a standard extending up from said base, a supporting bar, means for hold- 125 ing said bar in position to extend out from the upper end of said standard and permitting it to be folded down into a position parallel with said standard, cross arms centrally mounted on said bar, and upwardly-turned hooks on the ends of 130 said cross arms.

10. In a device of the character described, the combination of a base, a standard extending up from said base, a right-angle member having two arms one of which is attached to the upper end 135 of said standard, a supporting bar whose rear end is slidably attached to the other of said arms, means for limiting the outward sliding movement of said bar, said last-mentioned arm being cut away to cause said bar to then fold down 140 into a position parallel with said standard, cross arms slidably supported on said bar and adapted to be slid back upon said last-mentioned arm, and means carried by said last-mentioned arm for holding said cross arms in place thereon.

JAY A. HEIDBRINK.

145