No. 728,483. PATENTED MAY 19, 1903.

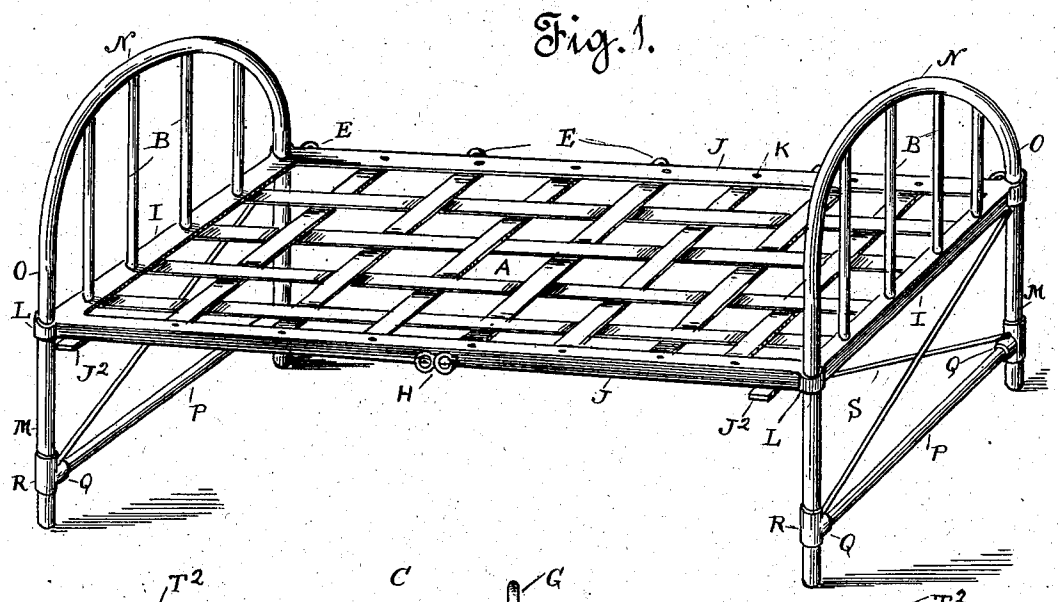
T. L. MAHONEY.

BED.

APPLICATION FILED APR. 9, 1902.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.



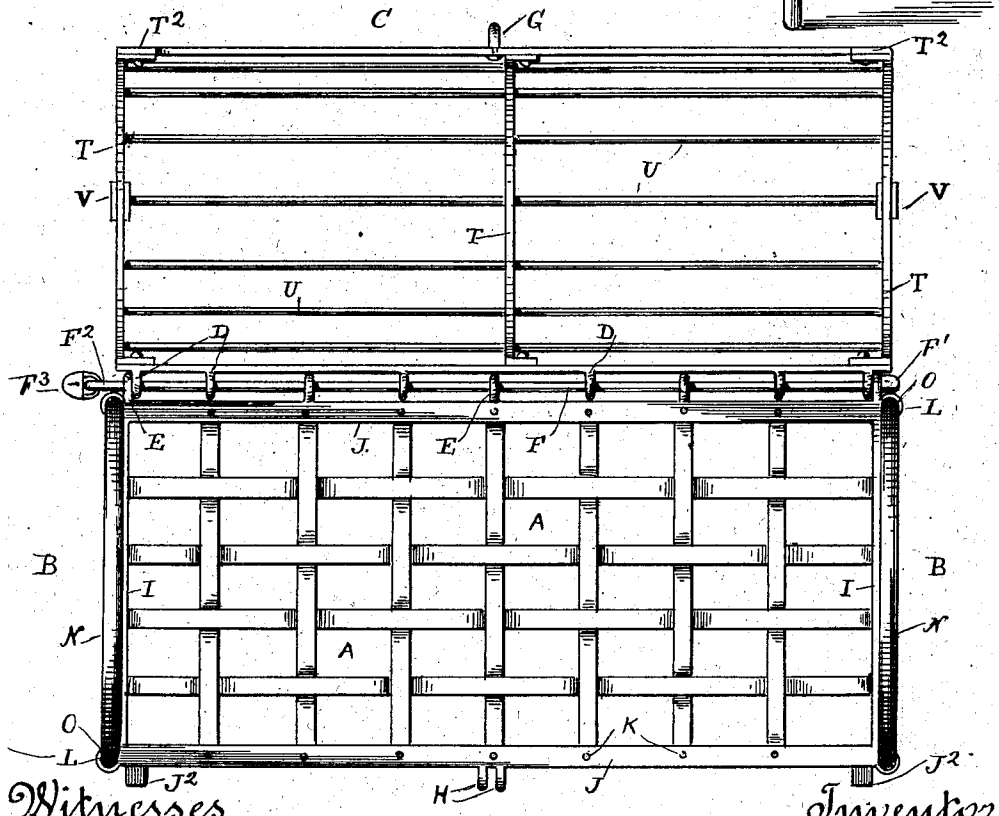


Fig. 2.

Witnesses.

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APPLICATION FILED APR. 9, 1902.

NO MODEL. 2 SHEETS—SHEET 2.

Fig. 3.

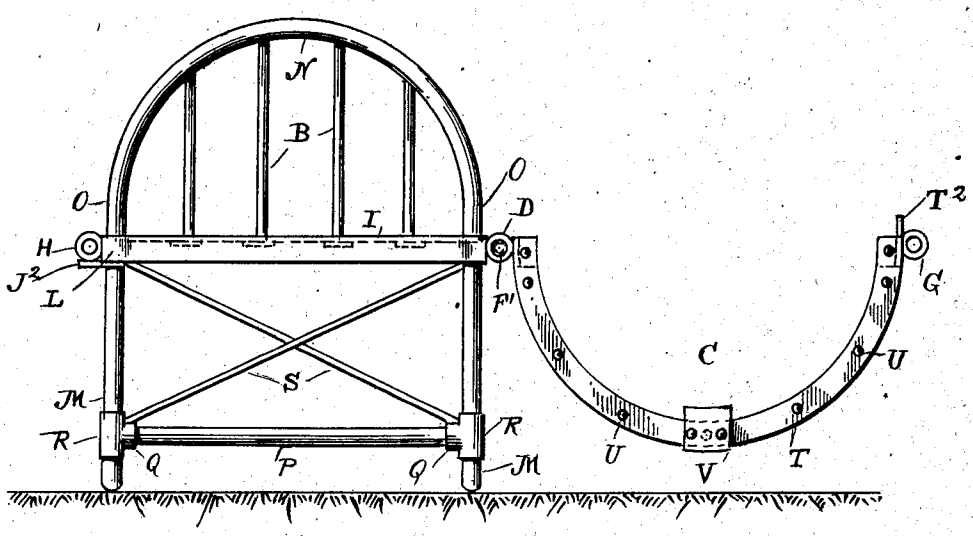


Fig. 4.

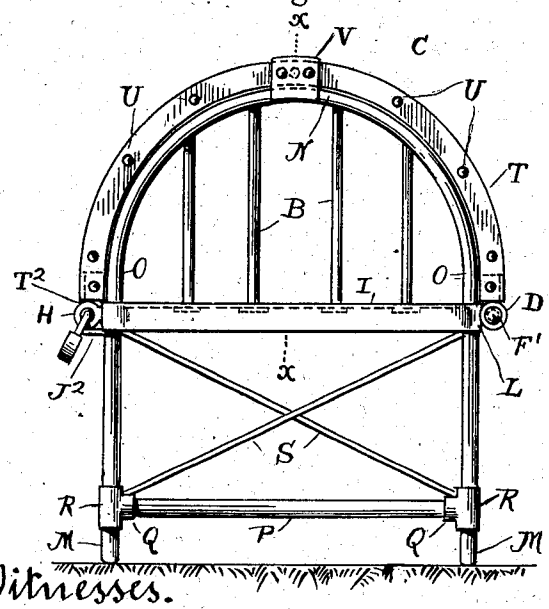
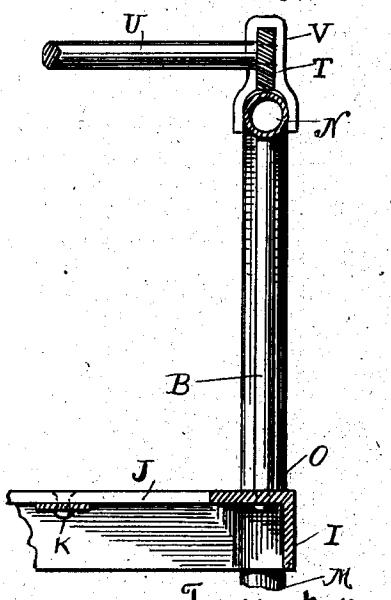


Fig. 5.



Witnesses.

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 728,483. Patented May 19, 1903.

UNITED STATES PATENT OFFICE.

THOMAS L. MAHONEY, OF SAN FRANCISCO, CALIFORNIA.

BED.

SPECIFICATION forming part of Letters Patent No. 728,483, dated May 19, 1903.

Application filed April 9, 1902. Serial No. 102,127. (No model.)

To all whom it may concern:

Be it known that I, THOMAS L. MAHONEY, a citizen of the United States of America, and a resident of the city and county of San Francisco, in the State of California, have invented certain new and useful Improvements in Beds, of which the following is a specification.

This invention is a safety-bed for the secure confinement of delirious persons and for wards of the municipality or state whose liberty must be more or less intermittently limited, as well as for others, such as somnambulists, who may deem proper to at times place themselves under like restriction, and all persons, young or old, whose welfare may depend on the safeguards that are placed around them during their sleep or while in bed.

In the accompanying drawings, which are integral with this specification, I employ similar reference characters to indicate similar parts in the several figures.

Figure 1 is a perspective view of my invention, showing it embodied in a metallic bedstead with grating-like head and foot barriers and bottom and containing means for the secure combining therewith of a cage-like safety-top, such as is illustrated in the following figures. Fig. 2 gives a top view of this bed and a bottom view of the safety-top in hinge connection therewith and swung back off the bed in horizontal position, this figure representing the open position of the invention. Fig. 3 is an end elevation of the construction shown in Fig. 2 looking from the right. Fig. 4 is a similar elevation showing the safety-top swung over into its functional position and locked. Fig. 5 is an enlarged sectional detail elevation taken on the line *x x* of Fig. 4 looking to the right.

This safety-bed consists of an inclosing structure comprising a grated or solid bottom A; grated upright head and foot barriers B, one at each end of the bed and more or less firmly connected therewith; an embracing cage-like top or vaulted superstructure C, which functionally contacts or sufficiently approaches the said head and foot barriers B, as well as the bottom A, to with them constitute a confining-inclosure; means for fastening the top C in hinge or pivotal connection with one side or end of the bottom A or with one of the barriers B—such as lugs D integral with or secured to the safety-top C, counter-lugs E, similarly fast to the bottom A or to an end barrier B, and a bolt or bolts F for pivotally joining these lugs D and counter-lugs E; and means, such as one or more lugs G, securely fast to the free or swinging part of the top C, and corresponding counter-lugs H, secured to the bottom A or to an end barrier B, said lugs G and H properly registering with each other and disposed more or less oppositely to the aforesaid hinging-lugs D and E for the purpose of safely locking the top C in secure contact or proximity with the bottom A and end barriers B, forming a closed cage or chamber.

The bottom A, Figs. 1 and 2, I have illustrated as a loosely-interwoven lattice-work of strong longitudinal and transverse slats. Each longitudinal slat is firmly secured to end beams I by a means to be explained hereinafter, and each transverse slat is likewise firmly fastened to side rails J by means of rivets K. (Best seen in Fig. 5.) The beams I and rails J are preferably made of strong angle-iron bars, with the channel downwardly and inwardly disposed, so that one flat face lies horizontal upwardly and the other vertical and outward. Sockets L are provided at the four corners, where the said beams and rails meet, to receive and secure the bed-legs M. These parts are shown integral with each other, suggesting welding or casting.

The end barriers B may be latticed similarly to the bottom A; but I have shown them grated by vertical rods or pieces of tubing, (marked B,) which rods or tubing-pieces are let into cross-bars N at their upper ends. At their lower ends these rods or pieces of tubing are passed through the horizontal member of the angle-iron end beam I and through the ends of the longitudinally-disposed slats of the bottom A and riveted thereunder or otherwise fastened, so as to combine the double purpose of the slats and the rods mutually securing each other. The cross-bars N are supported by corner-posts O, which also are secured with the sockets L, before mentioned.

I prefer to make the legs M, corner-posts O, and cross-bars N of one continuous piece of metal piping bent to correspond with the desired transverse form of the top C, the two ends which constitute the legs M being

straight and parallel, so as to facilitate their being properly forced into the sockets L. I have shown the combined posts O and cross-bars N semicircular or in the form of a semi-ellipse whose line of section is along its transverse axis; but they may assume any other form to accommodate the top C. The legs M are fortified laterally each by a tie-girth P, secured to a socket Q of a leg-embracing sleeve R, and braces S firmly join these sleeves with the sockets L. I also purpose to provide, as far as necessary, other braces running longitudinally of the bed from the sleeves R to the side rails J. (Not shown in the drawings.)

As illustrated, the cage-like top C is composed of transverse arches T, one at each end and one centrally disposed, and longitudinal rods U, which pass through apertures in these arches and are securely joined therewith. The several arches T, as shown in Fig. 2, are flanged and riveted (or strongly clipped) to the lower or extreme rods U. To one of these extreme rods are secured the before-mentioned hinging-lugs D and to the other the locking-lugs G. When functionally in position on the bed, the end arches of the top C will be disposed above or adjacent to the similarly-arched cross-bars N and more or less vertically and horizontally parallel therewith. Centrally on these end arches I secure clips V, which functionally extend below and in contact with the cross-bars N on opposite sides, so as to grasp and maintain the end barriers B and top C in secure combination at the apex or center, as indicated in Figs. 4 and 5. Projections J^2 T^2 are further provided on the rails J and arches T, respectively, to assist in supporting the top C on the locking side.

The before-mentioned lugs D and G and counter-lugs E and H for hinging and locking the vaulted top C to the bed proper may be integral with their respective connections or simple eyebolts rigidly riveted thereto. I have shown them variously disposed along the sides of the bed; but they may be simply secured to or be integral with the corner-clips of the top C and bottom A, respectively. The hinging-lugs D may be dispensed with by making the counter-lugs E to grasp their adjacent extreme rod of the top C, which latter rod would then act as hinge-bolt. As shown in Fig. 2 and mentioned above, however, a separate hinge-bolt F is provided for, so as to admit of the convenient removal of the top C for shipping purposes. The bolt F has a removable or integral head F′ and is furnished with an eye at F^2 for the use of a lock F^3.

It will be observed that I have illustrated my safety-bed as composed of common forms of stock, such as gas or electric piping and their connections and ordinary angled and flat bars, and generally that the foregoing specification provides for the cheaper form of my device; but it is evident that I may indefinitely vary the shape, material, and general structure of the invention without exhausting its scope, and therefore every possible modification of structure and design is herein implied. I have also omitted to encumber the specification with mention of the padding of grates and other expediences which are easily inferred.

It is clearly manifest that my invention provides adequate means to occasionally confine and protect delirious persons, somnambulists, infants, and irrational members of the family, not only for private use, but for infirmaries, sanitariums, foundling and other hospitals, for academies, universities, and boarding-schools, for lunatic asylums, prisons, and other seclusions of the unfortunate, and like public institutions as well.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. The combination with a bed having head and foot sections, of means for inclosing an occupant thereof comprising a cage-like top adapted to fit over the bed, and clips on the top adapted to engage portions of the head and foot sections to properly seat the top when in closed position, substantially as described.

2. In a bed having a bottom and head and foot sections constituting barriers, a cage-like top adapted to overlie and fit the head and foot sections, means for hinging the top to one of the side rails of the bed-bottom, and projections J^2 adjacent to the opposite side rail of the bottom for supporting the free edge of the top, substantially as described.

3. In a bed having a bottom and head and foot sections constituting barriers, said head and foot sections being arched, a cage-like top for the bed having correspondingly-arched end bars adapted to fit over the head and foot sections, means for hinging the top to one side rail of the bed-bottom, and means for locking the top at its free edge to the opposite side rail of the bottom, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOS. L. MAHONEY.

Witnesses:
CHAS. T. STANLEY,
A. H. STE. MARIE.