

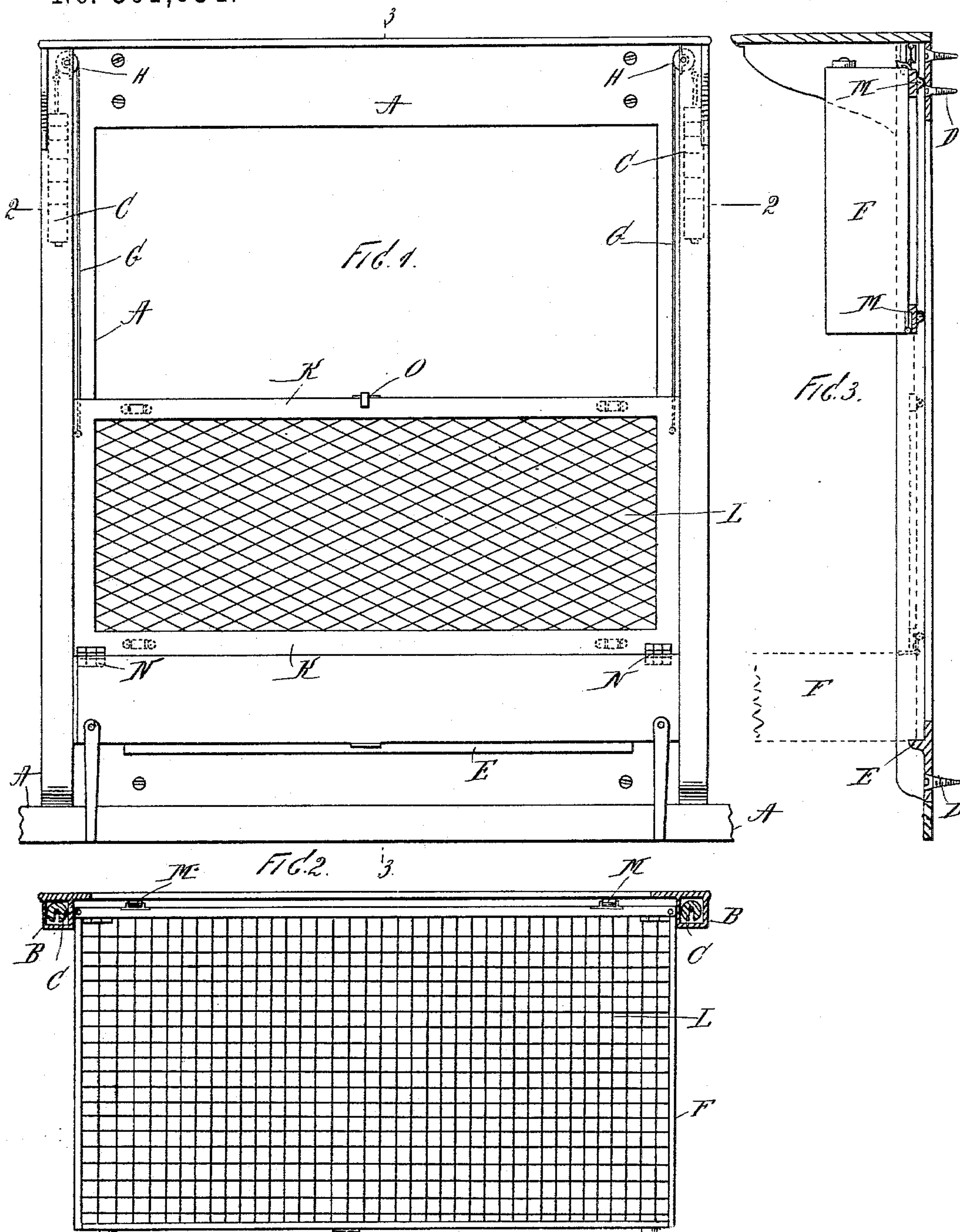
(No Model.)

2 Sheets—Sheet 1.

W. COLE, Jr.
FOLDING BED.

No. 561,654.

Patented June 9, 1896.



WITNESSES:

L. M. Muller.
C. Persh

INVENTOR

Warren Cole, Jr.
BY
Edgar Tate & Co
ATTORNEYS

(No Model.)

2 Sheets—Sheet 2.

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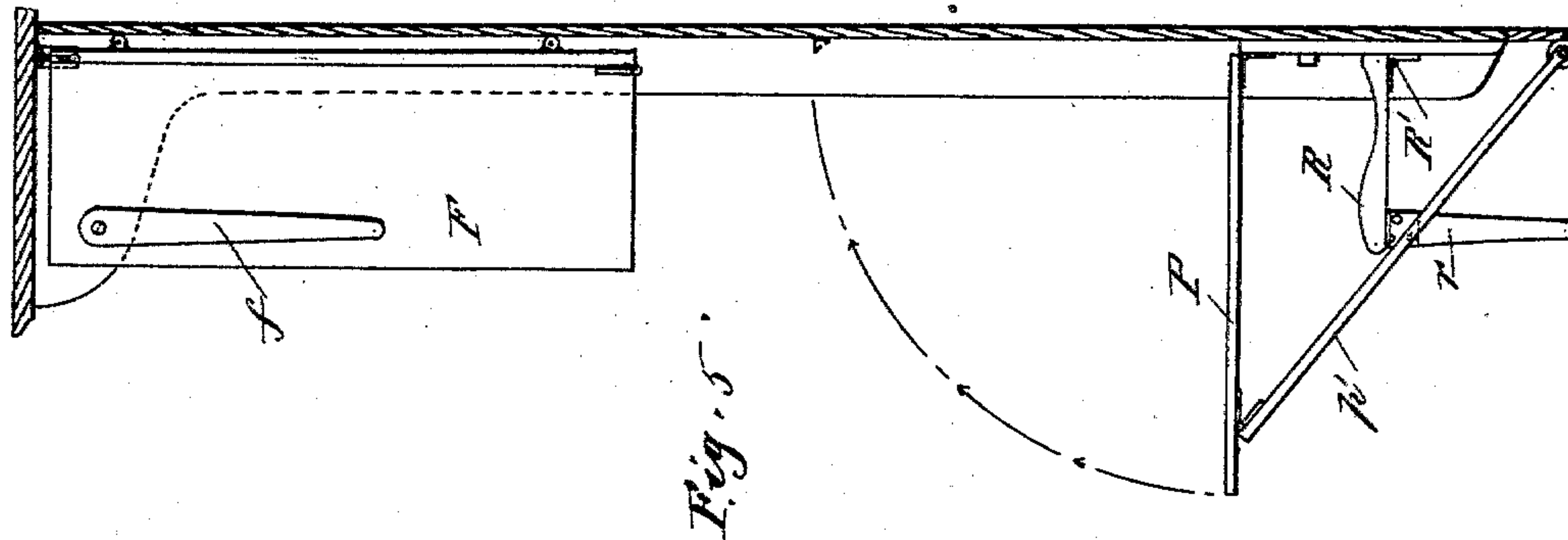


Fig. 5.

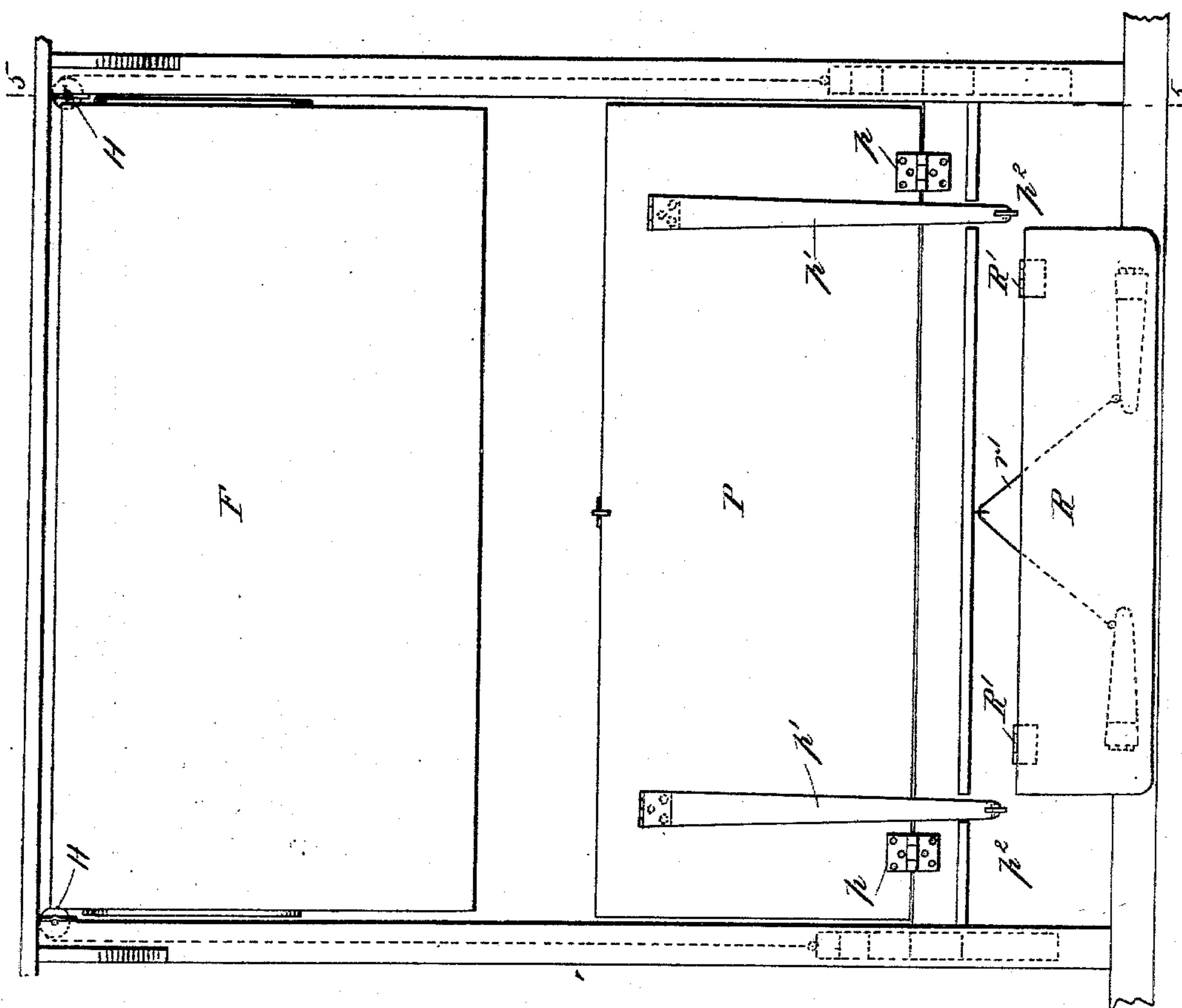


Fig. 4.

WITNESSES:

C. W. Benjamin.
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UNITED STATES PATENT OFFICE.

WARREN COLE, JR., OF KNOXVILLE, TENNESSEE.

FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 561,654, dated June 9, 1896.

Application filed July 6, 1895. Serial No. 555,107. (No model.)

To all whom it may concern:

Be it known that I, WARREN COLE, Jr., a citizen of the United States, and a resident of Knoxville, county of Knox, and State of Tennessee, have invented certain new and useful Improvements in Folding Beds, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to folding beds; and the object thereof is to provide a bed of this class adapted to be used in small rooms or apartments, and particularly adapted for use as what is known as a "half" or "three-quarter" bed; and a further object thereof is to provide a bed of this class the frame of which may be rigidly secured to a wall or other support and the bed proper of which may be folded adjacent to said frame and raised to the upper end thereof and lowered and extended when desired for use; and with this and other objects in view the invention consists in the construction, combination, and arrangement of parts hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, and in which—

Figure 1 is a front elevation with the bed lowered as when in use; Fig. 2, a plan view of the bed when extended for use and a sectional view of the frame on the line 2 2 of Fig. 1; Fig. 3, a sectional view on the line 3 3 of Fig. 1; Fig. 4, a front elevation showing my combination bed, table, and seat; and Fig. 5, a section on the line 5 5 of Fig. 4.

In the practice of my invention I employ a frame A of any preferred form or construction, at each side of which are vertical housings B, adapted to receive suspended weights C. (Shown in section in Fig. 2 and in dotted lines in Fig. 1.)

The frame A may be secured to a wall or other support by screws or bolts D (shown in Fig. 3) or in any other desired manner. Secured to the bottom thereof is a transverse shoulder or projection E, adapted to serve as a rest for the bed F when the latter is in position for use. The bed F is suspended within the sides of the frame by means of cords or chains G, which pass over pulleys H in the opposite upper corners of the frame, and to

the ends of which are secured the weights C, which are designed as a counterbalance for the bed and to hold it in the elevated position shown in Fig. 3 when not in use.

The bed F consists of a frame K of any preferred form or construction, and the open portion is covered with a wire netting or screen, as shown at L, and the back of the frame is provided with rollers M, which serve as anti-friction devices and operate in connection with the back of the frame A in raising or lowering the bed.

The lower side of the bed proper is also hinged at N to a back frame K, to which the cords or chains G are attached, and when lowered to the position shown in Fig. 3 it may be extended, as shown in dotted lines in said figure, and when folded to the vertical position, as shown in Fig. 3, it is held in place by a spring-catch O, as seen in Fig. 1.

In the modifications shown in Figs. 4 and 5 I provide a table P, which is hinged to the supporting-frame at p and provided with hinged legs p', having rollers on the lower end, as shown at p², and when the bed is in the elevated position and not in use, as shown in Fig. 4, the table P may be extended, as shown in Fig. 5, in which position the outer edge thereof will be supported by legs p', and when the table is not in use it may be folded to a vertical position, as shown in Fig. 4, in which position the legs p' will be vertically suspended therefrom and adjacent thereto.

In said Figs. 4 and 5 is also shown a sofa or other seat R, which is hinged to the bed-frame at R' and provided on its lower side with hinged legs r, which are adapted to be folded transversely of the bed-frame and longitudinally of the seat, and when the seat is not in use said legs are folded, as described, and held in position by a cord or chain r', connected with the frame, as shown in Fig. 4. The bed F is also provided with folding legs f, as shown in Fig. 5, by which the outer edge thereof is supported when lowered and extended for use, as will be readily understood; and the operation of my improved bed will be apparent from the foregoing description, when taken in connection with the accompanying drawings.

It will of course be understood that the table P may be employed when the bed and seat

are not in use, and when the table and bed are not in use the sofa or seat R may be used, and the bed of course may be folded and elevated to the position shown in Figs. 3, 4, and 5 when it is desirable to use the table or seat, where it will be held and counterbalanced by the weights C, as will be apparent, and it may be lowered and extended, as shown in Fig. 3, whenever the device is required for use as a bed.

It is evident that changes in and modifications of the construction described may be made without departing from the spirit of my invention or sacrificing its advantages, and I therefore reserve the right to make such alterations and modifications in the form, construction, combination, and arrangement of the various parts as fairly come within the scope of the invention.

Having fully described my invention, I claim and desire to secure by Letters Patent—

1. A bed comprising a supporting-frame, adapted to be secured to a wall or other support, a bed hinged to a frame supported therein, the frame to which the bed is hinged being supported by counterbalanced weights, and adapted to be raised or lowered, substantially as shown and described.

2. In a bed, the combination of a supporting-frame, adapted to be secured to a wall or other

support, a bed-frame supported therein by cords or chains, by means of counterbalanced weights which pass over pulleys in the upper corners thereof, a bed hinged to said bed-frame and adapted to be vertically folded adjacent thereto or to be extended for use, said bed-frame being adapted to be raised to the top or lowered to the bottom of the supporting-frame, substantially as shown and described.

3. In a bed, the combination of a supporting-frame, adapted to be secured to a wall or other support, a bed-frame supported therein by cords or chains, by means of counterbalanced weights which pass over pulleys in the upper corners thereof, a bed hinged to said bed-frame and adapted to be vertically folded adjacent thereto, or to be extended for use, said bed-frame being adapted to be raised to the top or lowered to the bottom of the supporting-frame, said frame being provided at its sides with vertical housings in which the counterbalanced weights move, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 28th day of June, 1895.

WARREN COLE, JR.

Witnesses:

H. T. HACKNEY,

E. R. CARTER.