To all whom it may concern:

Be it known that I, Jesse D. Hoyt, a citizen of the United States, residing at Los Angeles, county of Los Angeles, and State of California, have invented a new and useful Folding Bedclothes Hanger, of which the following is a specification.

My invention relates to folding beds, being more particularly a folding bed provided with means for retaining the bed clothes or covers thereon.

Folding beds in general are provided with some means for holding the clothes on the bed, such means usually consisting of clamps whereby the clothes are clamped to the mattress and remain so in both positions of the bed.

The principal object of my invention is to produce a device of the class described which will coact with the movement of the bed to hold the clothes in certain positions in which the bed may be placed, that is, when the bed is lowered and in use, the clothes are held at the foot of the bed loose enough so that the movement of the person is not interfered with and so arranged that when the bed is in folded or closed position the bed clothes or covers are automatically spaced apart so that each cover is separated from the others thereby permitting a free circulation of air between the covers when the bed is in such closed or raised position.

Other objects and advantages will appear hereinafter from the following description and drawings.

Referring to the drawings which are for illustrative purposes only,

Fig. 1 is a vertical sectional view of the bed showing an embodiment of my invention thereon, such bed being shown in full lines in closed position, in dotted lines in lowered position.

Fig. 2 is an enlarged side elevation of the foot of the bed.

Fig. 3 is an end view of the foot of the bed.

Fig. 4 is an enlarged detail face view of one of the hangers showing the clothes secured thereto.

Fig. 5 is an enlarged face view of a portion of the hanger, and

Fig. 6 is a vertical sectional view on line 6—6, Fig. 4.

As diagrammatically illustrated in Fig. 1, 11 designates the floor, 12 the ceiling, 13 a wall having an opening 14, and 15 a closet behind such wall 13.

Pivotedly mounted at 16 in any suitable manner to a standard 17 is a bed frame 18 having thereon a mattress 19. Secured to the back of the closet 15 in any suitable manner is a head board 20 which, when the bed is in lowered position as shown in dotted lines in Fig. 1, is engaged by the mattress, as shown.

21 designates the folding legs pivotally mounted to the bed frame 18 in any suitable manner and 23 designates the foot board of the bed.

Secured to the upper portion and extending across the foot board is an angle iron 24, such angle iron being provided with a series of perforations 25 which are arranged to receive the reduced upper ends 26 of rods 27, the lower ends of such rods 27 extending through an angle iron 28 secured to the foot board and which extends across the same. The rods 27 extend freely through perforations formed in the angle iron 23 and on each rod 27 is a fixed collar 29 engaging by a coiled spring 30 on the rod 27, extending between such collar 29 and the angle iron 28, the function of the spring is to elastically or yieldingly hold the upper end of the rod in engagement with the angle iron 24, as shown in Fig. 2.

Slidably mounted on the rods 27 are a series of hangers 32 which are preferably made of wood having holes or perforations 33 to receive the rods 27, such hangers 32 are provided with a series of clamping members, each of which consists of a jaw 34, the rounded face of which is beveled to engage a correspondingly beveled rounded recess 35 formed in the bottom or lower edge of the hanger. Secured to each jaw 34 is a rod 37 which slidably extends upwardly through the hanger being provided at its upper end.
with a plate or head 38, the hanger being formed with a recess 39 to receive a coiled spring 40, the upper end of which engages the head 38 and the lower end of which engages the lower end of the recess 39.

For the purpose of limiting the relative movement between the hangers, that is, to properly space the same, I provide short flexible tapes 43 provided with eyes 41 which are arranged to engage headed pins or buttons 42 on the top of the hangers.

This device operates in the following manner:

Each bed cover is attached to one of the hangers 32 by inserting the lower edge between the jaws 34 and the notch 35, this, it will be understood, may be readily done by depressing the springs 40 so as to open the jaws. When the covers are attached, as shown in Figs. 4 and 6, and the hangers placed upon the rods 27, the rods 27 are depressed against the action of the springs 30 and the ends of the rods connected with the angle iron 24, heretofore described.

When the bed is in lowered position shown in dotted lines in Fig. 1 and in full lines in Fig. 2, the hangers stack upon the rods 27, the covers lie flat upon the mattress. The mattress is provided with a movable section 45 connected to the mattress body by means of flexible straps, one of which is indicated at 46, such connections forming hinges for the purposes hereinafter described.

As the bed is raised from the dotted line position in Fig. 1 to the full line position, the momentum of the lower end of the bed moving upwardly throws the hangers away from the mattress on the rods 27, which action is assisted by the section 45 of the mattress which swings upon the hinge in the full line position shown in Fig. 1. The hangers 32 are spaced apart, that is, prevented from piling up by the spacing tapes 43 heretofore described.

The covers of the bed hang as shown in Fig. 1, that is, spaced apart from each other so that air passing upwardly through an opening 50 in the floor passes between the covers and out of an opening 51 in the top of the closet thereby providing a free circulation through the covers.

When the bed is lowered, the legs 21 assume their supporting position shown in dotted lines and the bed covers during the downward movement of the bed first pile up on the lowermost cover. The weight of these covers at one end press against the section 45 and the same swings on its hinges into the position shown in Fig. 2 with the covers lying flat on the mattress.

It will be understood that any of the covers may be readily removed from the bed by disengaging the rods 27 at their upper ends from the angle iron 24 and the hangers above the one having the cover to be removed are taken from the rods 27 and such hangers and covers are folded back upon the bed leaving exposed the cover to be removed. Such cover is then detached from its associated hanger by opening the jaws thereon and the clean cover inserted in its place, after which the hangers containing the upper covers are placed on the rods 27 and such rods attached to the angle iron 24.

I claim as my invention:

1. In combination with a folding bed, a foot board, upper and lower angle irons extending across said foot board each having perforations therein, rods slidable through the perforations in the lower iron, fixed collars on each rod, coiled springs on each rod between the collar thereon and the lower iron, a plurality of hangers slidably mounted on said rods each consisting of a board having perforations to receive the rods, and means on each hanger for attaching the bed covers thereto.

2. In combination with a folding bed, a foot board, upper and lower angle irons extending across said foot board each having perforations therein, rods slidable through the perforations in the lower iron, fixed collars on each rod, coiled springs on each rod between the collar thereon and the lower iron, a plurality of hangers slidably mounted on said rods each consisting of a board having perforations to receive the rods, and means on each hanger for attaching the bed covers thereto, and means for limiting the relative movement between said hangers.

3. In combination with a folding bed, a foot board, upper and lower angle irons extending across said foot board each having perforations therein, rods slidable through the perforations in the lower iron, fixed collars on each rod, coiled springs on each rod between the collar thereon and the lower iron, a plurality of hangers slidably mounted on said rods each consisting of a board having perforations to receive the rods, and means on each hanger for attaching the bed covers thereto, and means for limiting the relative movement between said hangers, said limiting means consisting of flexible members having eyes formed therein and headed pins on each hanger for engagement with said eyes.

4. In combination with a folding bed, a foot board, upper and lower angle irons extending across said foot board each having perforations therein, rods slidable through the perforations in the lower iron, fixed collars on each rod, coiled springs on each rod between the collar thereon and the lower iron, a plurality of hangers slidably mounted on said rods each consisting of a board having perforations to receive the rods, and means on each hanger for attaching the bed covers thereto, said means consisting of a series of jaws formed to fit into recesses.
formed in said hangers, a rod on each jaw slidably mounted in said hanger and means for yieldingly holding said jaws in engagement with their respective recesses.

5. In combination with a folding bed, a series of rods mounted on the outer end of the bed, and a plurality of hangers slidably mounted on said rods, each hanger consisting of a flat board having a series of recesses formed in its lower face, a jaw in each recess, a rod on each jaw slidably mounted in the hanger, a head on each rod, and a coiled spring on each rod engaging said head to yieldingly hold the jaw in engagement with its associated recess.

6. In combination with a folding bed, a series of rods mounted on the outer end of the bed, a series of hangers slidably mounted on said rods, means on each hanger for engaging the bed covers, a mattress on said bed, and a movable section on said mattress hinged to the mattress arranged to engage the lowermost cover to swing the covers away from the mattress when the bed is swung into closed position.

In testimony whereof, I have hereunto set my hand at Los Angeles, California, this 7th day of March, 1921.

JESSE D. HOYT.