May 16, 1933. T. HIROSE ET AL 1,909,467

SCREEN

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Fig. 1.

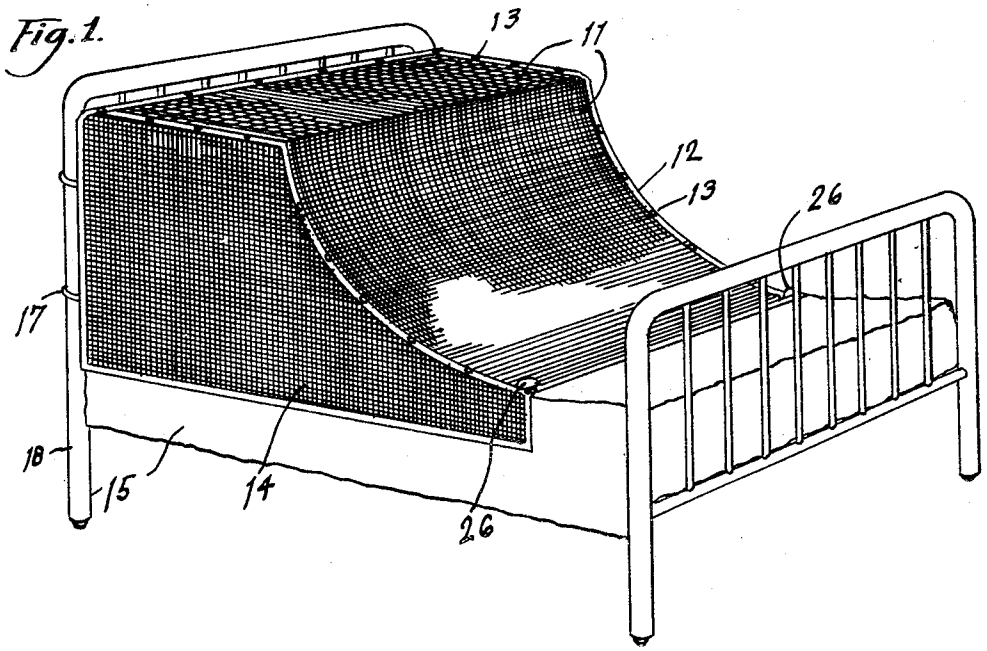
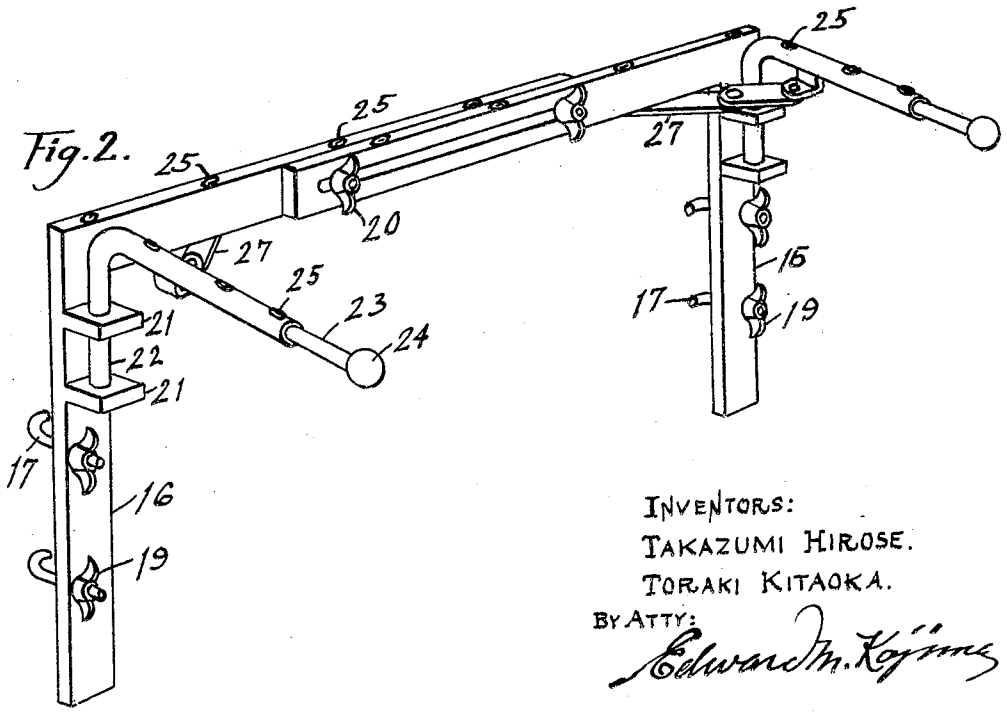


Fig. 2.



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Fig. 3.

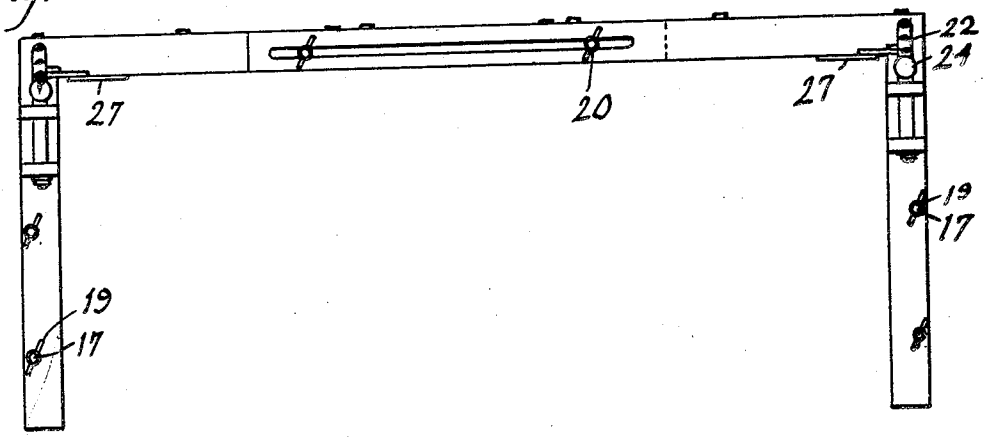


Fig. 4.

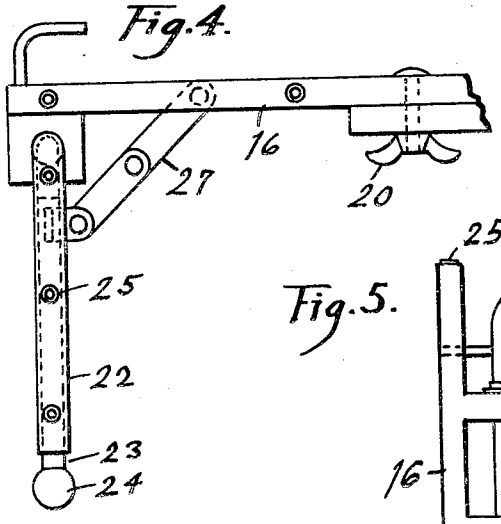


Fig. 5.

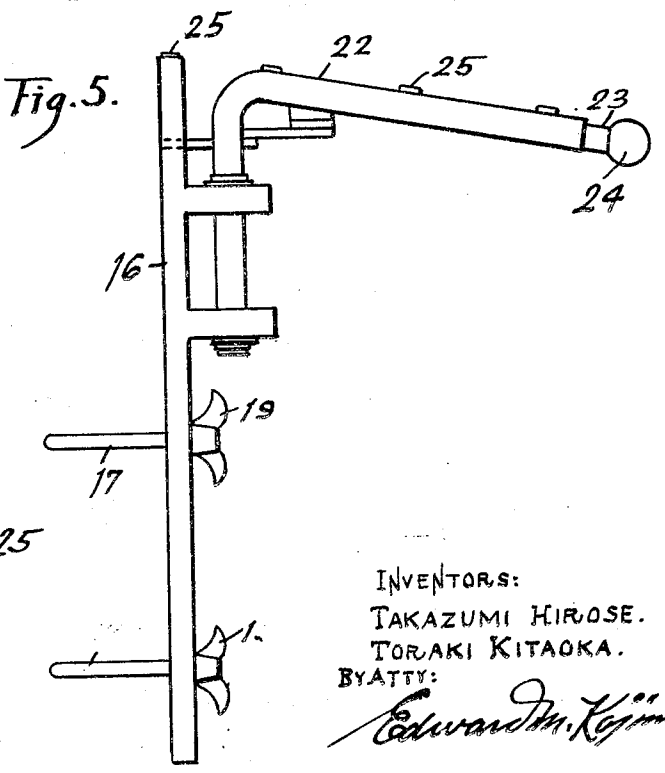
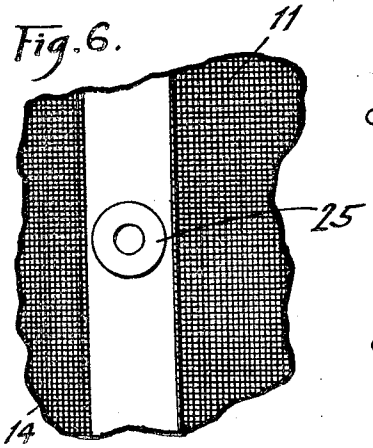


Fig. 6.



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UNITED STATES PATENT OFFICE

TAKAZUMI HIROSE AND TORAKI KITAOKA, OF GUADALUPE, CALIFORNIA

SCREEN

Application filed April 18, 1932. Serial No. 605,812.

This invention relates to screens, and particularly to a screen that may be mounted upon a bed, and has for its objects to provide a screen device that will protect the occupants of the bed from mosquitoes, and to provide a screen device of this character that may be readily attached to any bed, that may be adjusted to any ordinary size of bed, and that will be attractive in appearance when attached to the bed.

The drawings illustrate a form of the invention which we have so far found to be practical in use and efficient for the purpose intended.

In the drawings: Figure 1 is a perspective view of a bed having our improved screen applied thereto. Fig. 2 is a perspective view of the frame portion of the screen device. Fig. 3 is a front elevation of the frame portion. Fig. 4 is a fragmentary and top plan view of the frame portion. Fig. 5 is an end elevation of the frame portion. Fig. 6 is a fragmentary and detail view of the fabric screen showing a portion of a snap fastener whereby the fabric screen may be secured to another portion thereof, or to the supporting frame.

Referring in detail to the drawings, our improved screen consists of a top portion 11, consisting of mosquito netting, and having fabric tape edges 12, provided with snap fasteners 13, whereby the netting may be secured to other portions 14, of netting, or to the supporting frame hereinafter set forth.

To support the screen netting upon a bed 15, we provide frame members 16, which have bolts 17 that are adapted to engage with the bed frame members 18 to clamp members 16 thereto. Wing nuts 19 are provided on bolts 17. The frame members 16 are adjustable relative to one another, and are secured in adjusted position by clamp nuts 20, and may be adjusted to the width of the bed. Frame members 16 have the projecting brackets 21, in which are journalled the movable arms 22, consisting of metal tubes, and having rods 23 which telescope therein, and are provided on their outer ends with knobs 24. Frame members 16 and tubes 22 are provided with the snap fasteners 25, whereby the fabric netting may be secured thereto. The top portion of the netting 11 is provided at the outer corners with weights 26, whereby the device may be maintained in the position shown in Fig. 1 when in use. Other parts of the supporting frame consist of collapsible links 27 secured to tubes 22 and to frame members 16, and serving to hold tubes 22 in their extended position.

In use, the frame is adjusted and clamped to the bed frame by means of the bolts 17. The top netting 11 is then secured thereto, and then the side portions 14 are secured to netting 11 and to the frame.

From the foregoing description and drawings, it may be seen that we have provided a simple and efficient screen device that may be applied to any bed for protection from mosquitoes, and a screen device that is easy to adjust and set up.

What is claimed is:

1. In a netting fabric supporting frame, two frame members adjustable longitudinally relative to one another, means for clamping the frame members to a bed, tubular arms operatively mounted relative to the frame members, and collapsible links serving to hold the tubular arms in extended position.

2. In a supporting frame, two frame members adjustable relative to one another, means for clamping the frame members in their adjusted position, means for clamping the frame members to a bed, brackets on the frame members, tubular arms journalled in the brackets, links serving to hold the tubular arms in extended position, rods mounted in the tubular arms, and a series of snap fasteners mounted on the frame members and on the tubular arms.

3. In a supporting frame for fabric netting, two frame members adjustable relative to one another, bolts arranged for clamping the frame members to a bed and at the head of the bed, brackets on the frame members, tubular arms journalled in said brackets, links connected to the tubular arms and to the frame members and serving to support the tubular arms in their extended

position, rods mounted in said tubular arms and to telescope therein, and a series of snap fasteners mounted on the frame members and tubular arms.

In testimony whereof, we hereunto affix our signatures.

TAKAZUMI HIROSE.
TORAKI KITAOKA.