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S_E.Hartwell,

Mosquito-Net Frame.

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N₽14,655.

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Palented Apr 15, 1856.

Fig: 20



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N. PETERS, PHOTO-LITHOGRAPHER. WASHINGTON. D. C.

UNITED STATES PATENT OFFICE.

SAMUEL E. HARTWELL, OF NEW YORK, N. Y.

FRAME FOR MOSQUITO-NETS.

Specification of Letters Patent No. 14,655, dated April 15, 1856.

forces the clamp against the face of the To all whom it may concern: Be it known that I, SAMUEL E. HARTknob. The ribs as shown consist of four long WELL, of the city, county, and State of New ones (o) and two short ones (o') shaped as York, have invented a new and useful Im-5 provement in Portable Frames for Mosin the figure; these are hinged at (c) as be- 60 fore described. The four long ones stretch quito-Nets; and I do hereby declare that out to the four corners of the bedstead the following is a full, clear, and exact description of the same, reference being made where eyes may be placed to receive their to the annexed drawing, making a part of ends, when used as permanent fixtures. At a short distance from the knob, say about 65 10 this specification, in which one third of the length, holes are made Figure I is a vertical central section. Fig. through these rods as at (r), and the two II is an elevation, or side view. Fig. III short rods have also a similar hole in their is of a part in detail, and similar letters inouter ends, at the same distance from the dicate similar parts throughout. knob as those in the long arms. These short 70 My improvement consists of a series of 15 arms (o') are situated between the long ones light rods of metal or other suitable ma-(o) so as to extend toward the sides of the terial curved to form an arch which shall bedstead, and in these positions are shown support a canopy when expanded, each of by the letters of reference in Fig. III. which arms is hinged at one end near a com-Through the holes in the arms a cord (i) 75 is rove for the double purpose of preventmanner similar to the arms of an unbrella, ing the gauze net from swagging down beand my improvement lies in the arrangetween the rods, and of stiffening the frame ment of a clamp to secure firmness and rigwhen distended, and by shortening this cord idity when the rods are opened out. By the frame will fit a smaller bedstead and 80 25 this means a perfectly portable net and form will still be firmly held together. can be constructed, which, by reason of its To extend the ribs lay each one in its apoccupying little room when folded, may be propriate groove (b); then turn the clamp carried in an ordinary traveling baggage. until each prong (d) lies over its appropri-The head may consist of some ornamental ate groove, and set it there by screwing up 85 30 knob and as seen at (a). The underside of the nut (f) until it pinches; each rib will this is flat, as shown, and radiating from then be held firmly in place and may be the center a series of six or more grooves is affixed upon the bedstead in the manner cut according to the number of ribs to be inindicated; or where the eyes are not found, serted for the frame, and these are so dias in the case of traveling, it may be sup- 90 35 vided that four grooves shall be directed ported simply by standing it so that the toward the four corners of an ordinary bedfeet of the rods will rest on the frame or stead, the knob being supposed to stand over even the bed clothes—the gauze being its center. These grooves are shown at (b), thrown over and allowed to hang down all and if the ribs are round ones the grooves around. To fold the ribs, unscrew the nut 95 40 will be a half round. These grooves all (f), then turn the clamp-plate so that the terminate in a circular one near the center prongs (d) will stand between the spaces of the knob, and which is to receive the from groove to groove, when each rib will hinge wire for attaching the ribs as seen fold down without interference. at (c'). What I claim is— The clamp is a plate with arms cut so as 100 45to cover the grooves and is of the shape The arrangement for screwing the ribs shown at (d) Fig. III. One side of each | rigidly in position when expanded, that is arm has a half round groove also cut upon to say, the radial grooves on the knob in combination with the grooved clamp, conit, and this side is to face the grooved side structed and operated as described. 50 of the knob, so that when an arm of the clamp lies over a groove a round hole will SAMUEL E. HARTWELL. be formed, as seen at (b) Fig. II. The clamp is kept in place by a screw (E) Fig. Witnesses: S. H. MAYNARD, I, on which a thumb-nut turns as in (f)T. TUCKERMAN. 55 Fig. II. Thus the screwing up of the nut |

20 mon center from which they radiate in a