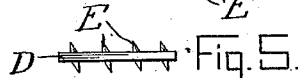
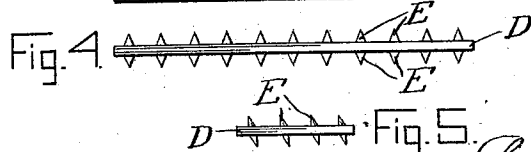
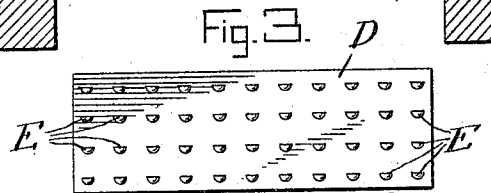
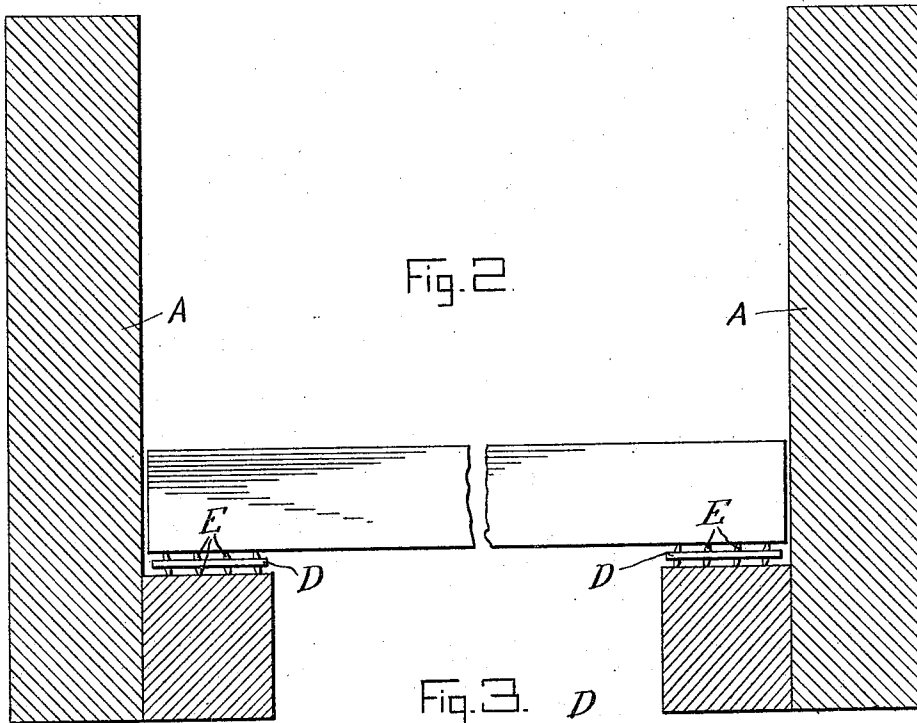
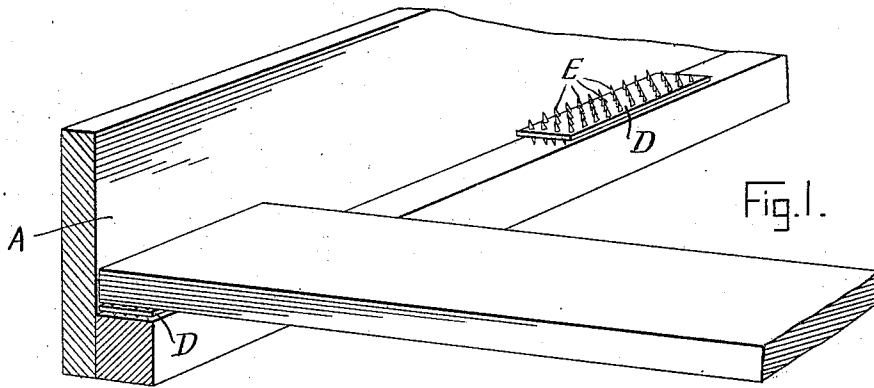


G. M. DONALDSON.
 LOCKING PLATE FOR THE RAILS OF BEDSTEADS.
 APPLICATION FILED MAY 26, 1909.

944,325.

Patented Dec. 28, 1909.



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE M. DONALDSON, OF WYNNE, ARKANSAS.

LOCKING-PLATE FOR THE RAILS OF BEDSTEADS.

944,325.

Specification of Letters Patent.

Patented Dec. 28, 1909.

Application filed May 26, 1909. Serial No. 498,484.

To all whom it may concern:

Be it known that I, GEORGE M. DONALDSON, a citizen of the United States, residing at Wynne, in the county of Cross and State of Arkansas, have invented certain new and useful Improvements in Locking-Plates for the Rails of Bedsteads, of which the following is a specification.

My invention relates to improvements in locking plates for the rails and slats of bedsteads, and the object of the invention is to provide a toothed plate, the teeth of which are "struck up" from said plate upon the upper and lower surfaces thereof and having a slight pitch or inclination in opposite directions, those upon the upper surface having a pitch upwardly and those upon the lower surface downwardly.

With these and other objects in view the invention consists in the novel construction and arrangement of the teeth of the plate as will be hereinafter more in detail described and the asserted novelty particularly pointed out in the claim.

I have fully and clearly illustrated my invention in the accompanying drawings in which:

Figure 1 is a sectional view of the bed rail and slats showing my locking-plates in position. Fig. 2 is a sectional view of the bed rails and side-boards also showing plates in position. Fig. 3 is a plan view of the locking-plate and teeth. Fig. 4 is an edge view of the plate and teeth, and Fig. 5 is an end view of the same.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings by letters: A represents a portion of a bedstead of the ordinary construction composed of the side-boards, rails and slats which form herein no part of my invention having my locking-plate applied thereto.

D designates a detachable rectangular locking-plate interposed between the ends of the slats and provided with a multiple number of teeth E "struck up" from both the upper and lower surfaces of the plate or being formed integrally therewith, and disposed in series laterally thereon and at predetermined distances apart, the points of the teeth upon the upper surface having a pitch or inclination slightly upwardly, and those

upon the lower surface a corresponding pitch or inclination downwardly in an opposite direction to those of the former, and which is shown more clearly in Figs. 4 and 5 of the drawings.

The function of the locking-plate is double acting, the action of the teeth formed upon the upper surface of the plate and those formed upon the lower surface taking hold of or gripping the under surface of the slats and the upper surface of the rails simultaneously. From the peculiar construction and disposition of these teeth upon the upper and lower surface of the plate D and the slight pitch given the points thereof in opposite directions they have a bracing action one upon the slats and the other upon the rails by embedding themselves deeply into the rails and slats, thus holding the slats rigidly in place to the locking plate D and the plate to the rails of the bedstead and any displacement of the slats is thereby effectually prevented. Either surface of the locking-plate can be used to connect the slats rigidly with the rails. From two to six locking-plates are used for each bedstead, they being applicable to either iron or wooden bedsteads.

My device as herein described will readily be seen combines simplicity and durability in its construction, and at the same time avoids all of the usual annoyances of falling out of place of the slats from the rails which usually attend bedsteads of the ordinary construction, my device always maintaining its proper relation to the slats and rails, as the series of teeth in the upper surface of the device serve to brace those formed upon the lower surface. This being the result of the pitch in opposite directions of the teeth formed upon both surfaces, the more weight there is placed upon the bed the deeper the points of the teeth enter the slats and rails of the bedstead.

Having thus described my invention what I claim as new and desire to secure by Letters Patent, is—

The locking plate for the slats of bedsteads provided with teeth upon the upper and lower surfaces of the plate and formed integral therewith, the points of the series of teeth upon the upper surface of the plate having a slight pitch in one direction to op-

pose the pull of the slat and those of the series upon the lower surface of the plate in an opposite direction to oppose the pull of the slat the said upper and lower series of
5 teeth being in alinement with each other, substantially as described and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE M. DONALDSON.

Witnesses:

C. A. SMITH,
A. THACKER.