L. F. HAMMER.

FASTENER.

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899,972.

Patented Sept. 29, 1908.

Fig. 1.

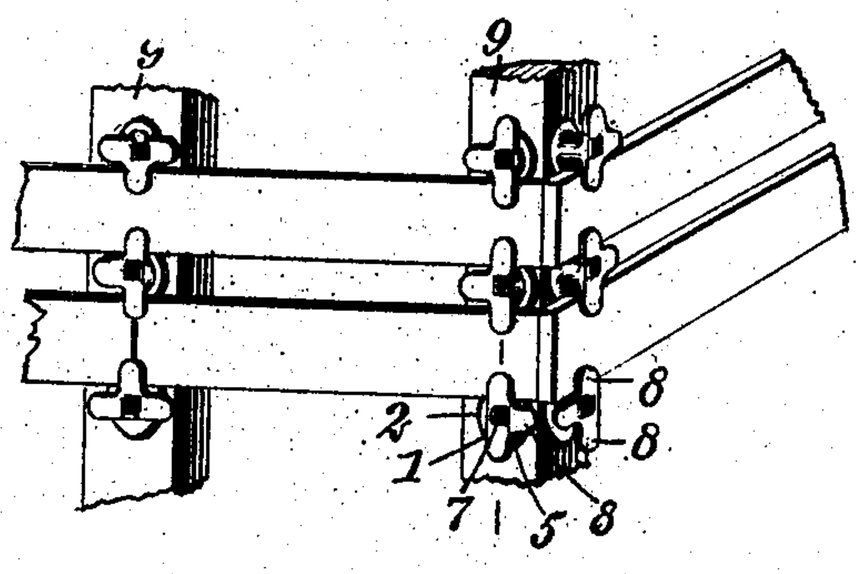


Fig. 2.

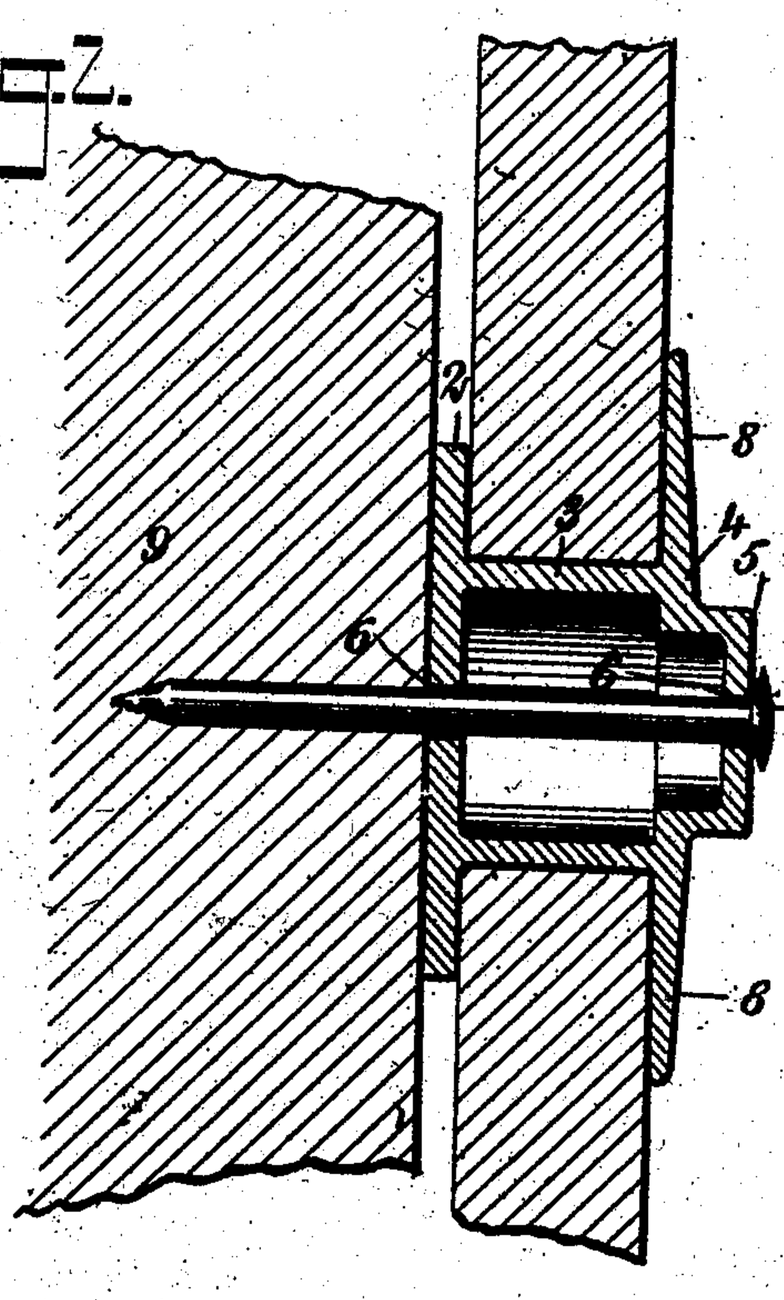


Fig. 3.

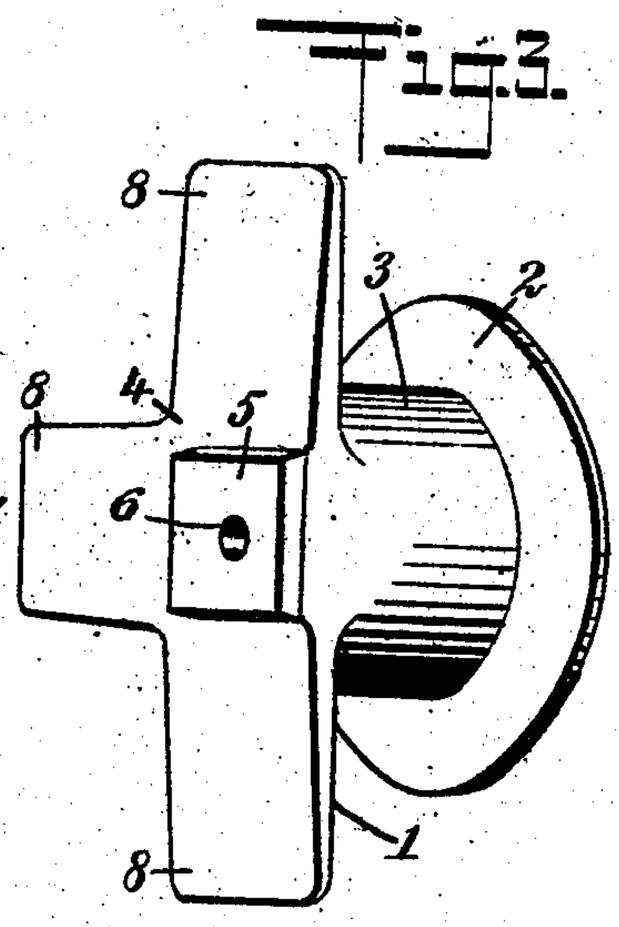
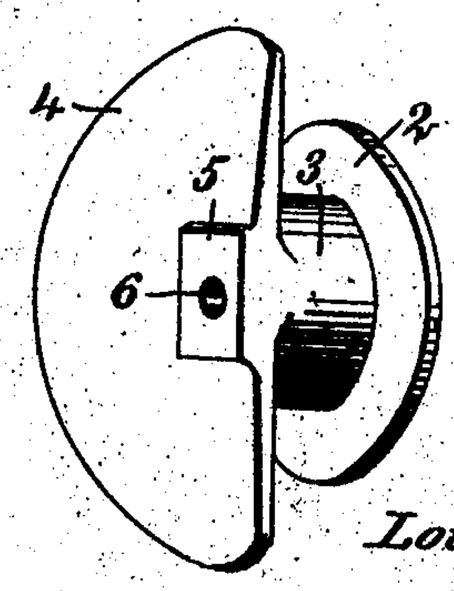


Fig. 4.



WITNESSES

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FASTENER.

No. 899,972. Specification of Letters Patent. Patented Sept. 29, 1908.

Application filed March 27, 1908. Serial No. 423,567.

To all whom it may concern:

Be it known that I, LOUIS FRANKLIN HAMMER, a citizen of the United States, and a resident of Omaha, in the county of Douglas and State of Nebraska, have invented a new and Improved Fastener, of which the following is a full, clear, and exact description.

This invention relates to fasteners, and more particularly to fasteners such as are used with fences, cribs or the like, for removably supporting cross boards, panels or the like in position.

An object of this invention is to provide a simple, inexpensive and serviceable fastener, which permits of the removal of the cross boards without damage to the latter, thus obviating the waste of material incident to the use of nails or the like.

A further object of the invention is to provide fasteners adapted to be rotatably mounted upon the supports of fences, cribs or the like, which not only hold the cross boards in rigid position but at the same time space them any desired distance apart and also permit the removal of any of the cross boards without deranging those remaining in place.

The invention consists in the construction and combination of parts, to be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view showing the fasteners supporting cross boards in position; Fig. 2 is an enlarged cross section showing the pivotal means for mounting the fastener on a support; Fig. 3 is an enlarged perspective view of the fastener, and Fig. 4 is an enlarged perspective view showing a modification of the form illustrated in Fig. 3.

Before proceeding to a more detailed description of my invention, it should be understood that although my device is applicable to many forms of structures in which cross-bars, cross-boards, rods, panels or the like are used, it is especially adapted for use with fences, cribs, sties and the like, where it is an advantage to mount the cross members removably and adjustably in place. In cribs my device is especially useful, as it permits a ready access to the contents of the same at any place desired. Further, as the use of nails, screws and the like is entirely obviated in the cross-boards, a great economy in material results and the life of the cross-boards is lengthened.

Referring more particularly to the drawings, 1 represents a fastener, preferably hollow, constructed of any suitable material, such as cast metal, wood or the like, and consisting of an annular flange 2, a shank 3, a keeper 4 and an integral head 5, adapted for engagement by a wrench or the like, to permit the rotation of the fastener. The keeper 4 may be either semi-circular in form, as shown in Fig. 4, or may have a plurality of points or fingers 8, as illustrated in Fig. 3. Registering openings 6 are formed in the fastener, in which is arranged an elongated member 7, such as a nail, screw or the like, the member serving movably to mount the fastener upon the support 9.

The cross-boards, when in position, rest upon the shanks of the fasteners, being held out of engagement with the supports by the flanges 2. The keepers, when rotated, so that they are in contact with the boards, serve to secure the latter upon the supports. When it is desired to remove any of the boards, it is necessary simply to rotate the fasteners to displace the keepers from engagement with the boards. The keepers are cut away at one side and are flush at the cut-away part with the shanks for this purpose. Further, the keepers, on account of their projection beyond the shanks on three sides thereof, may be arranged to engage two boards, one above the shank and the other below, at the same time, or to engage only one. In the case of two boards joining at a keeper, the latter is so constructed that it will engage both and secure them on the support.

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

1. A fastener, comprising a shank having an opening therethrough, means in said opening for rotatably mounting said fastener, a flange integral with said shank, a keeper integral with said shank, and a head integral with said keeper, said head being adapted to be grasped by a wrench, said keeper being cut away at one side of said shank.

2. A fastener comprising a shank, a flange integral with the shank, a keeper integral

with the shank and spaced apart from the flange, said keeper being cut away at one side of the shank, and being provided with an integral head whereby to turn the keeper, said fastener being provided with means whereby it may be secured to a support.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LOUIS FRANKLIN HAMMER.

Witnesses:
O. WILLIAMS,
H. Z. JACKSON.