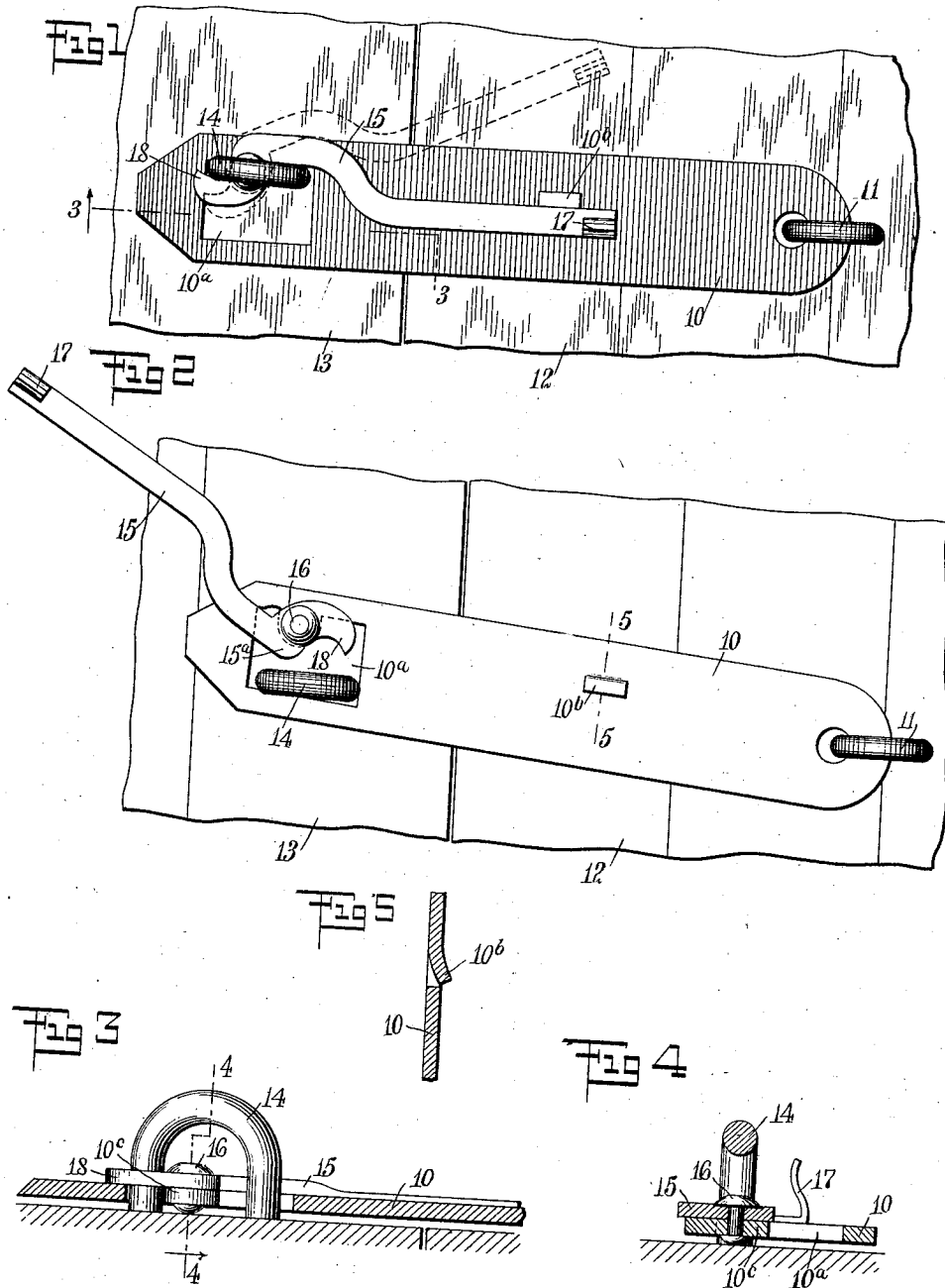


J. B. CRANE.
SAFETY DOOR HASP.
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1,062,821.

Patented May 27, 1913.



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UNITED STATES PATENT OFFICE.

JUDD B. CRANE, OF ELLENSBURG, WASHINGTON.

SAFETY DOOR-HASP.

1,062,821.

Specification of Letters Patent.

Patented May 27, 1913.

Application filed July 26, 1912. Serial No. 711,655.

To all whom it may concern:

Be it known that I, JUDD B. CRANE, a citizen of the United States, and a resident of Ellensburg, in the county of Kittitas and State of Washington, have invented a new and Improved Safety Door-Hasp, of which the following is a full, clear, and exact description.

This invention relates to hand operated fasteners for barn doors or the like, and has particular reference to devices of this nature which are intended to make it impossible for a door thus secured to be opened by a horse or for the door to be rattled or shaken loose by any other means.

The primary object of this invention is to produce a safety hasp for the purpose above indicated which is simple in construction and quite as easy of manipulation as the ordinary unreliable fastener.

Reference is to be had to the accompanying drawing forming a part of this specification in which like characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a front elevation of the hasp in closed or locking position; Fig. 2 is a similar view with the lock thrown up ready for opening of the door; Fig. 3 is a detail on the line 3—3 of Fig. 1; Fig. 4 is a transverse detail on the line 4—4 of Fig. 3; and Fig. 5 is a corresponding detail on the line 5—5 of Fig. 2.

Referring particularly to the drawings which show a preferred embodiment of the invention, 10 indicates a plate connected by a staple 11 to the movable part or door 12 and adapted to overlap the jamb 13 as usual. The plate at its outer end is formed with an opening or wide slot 10^a adapted to receive freely the staple 14 secured in the door jamb 13. In devices of this nature there is commonly pivoted to the plate a hook adapted to drop loosely into or through the staple 14, but such hook may readily be lifted by a mischievous horse and the door thereby be permitted to swing open. To prevent the foregoing unwarranted opening of the door I provide a locking member 15 and pivot the same at 16 to the plate 10 adjacent the upper edge of the slot 10^a. Said locking member constitutes in effect a lever of the first class, the longer arm of which is provided with a finger piece 17, and the shorter arm of which constitutes a hook 18 adapted to pass downwardly through the

staple 14 and around one leg thereof when the lever 15 is turned about its pivot in a clockwise direction as viewed in the illustrations. The pivot 16 is shown extending through the lever 15 and the lug 10^b projecting downwardly from the upper edge of the slot and is adapted to extend into the fixed staple 14 when the hasp is in locking position. Any simple means may be provided to secure the lever 15 in the position just described, and to this end I have formed on the plate 10 a lug 10^b over which the lever 15 will ride and snap when swung downward in the locking direction. The lever has sufficient flexibility to permit of this action and to make it easy for an operator drawing outward upon the finger piece to disengage the lever from the lug and to swing it upward toward the opening position. As a convenient and effective way of forming the lug 10^b the material of the plate 10 may be struck outward by a punch, as indicated in Fig. 5.

When the plate 10 is put into the position indicated in Fig. 2 when the door is being closed, a simple swing of the lever 15 clockwise will cause the hook 18 to pass through and snugly embrace the staple 14, causing the plate to assume the position indicated in Fig. 1, the end of such swinging movement of the lever resulting in locking the same beneath the lug 10^b. A reverse movement of the lever for unlocking will cause the shoulder 15^a of the lever to ride upon the upper surface of the staple 14 in the nature of a cam, whereby the plate will be lifted to or toward the position shown in Fig. 2 ready to be freed from the staple. The lever 15 will, therefore, substantially retain the position indicated in Fig. 2 with relation to the plate when the door is open.

The several parts of the improved hasp may be made of any suitable materials and the relative sizes and proportions thereof varied without departing from the spirit of the invention.

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

1. In a safety door hasp, the combination of a plate having a slot adapted to admit a staple, a lever of the first class constituting a locking member pivoted on said plate adjacent the upper edge of said slot, said lever terminating at one free end in a hook adapted to embrace one leg of the staple in the

locking operation of the hasp, and means cooperating with the opposite end of the lever to secure it in locking position.

2. In a safety door hasp, the combination
5 of a substantially flat plate having a wide slot, a locking member pivoted on the plate adjacent one side of the slot, one end of the lever constituting a hook adapted to embrace a staple projecting through the slot,
10 another portion of the lever constituting a cam to cooperate with the staple in opening the hasp, and means formed on the plate to secure the locking lever in locking position.

3. In a safety door hasp, the combination
15 of a substantially flat plate having a wide slot at one end, a portion of said plate constituting a lug extending into said slot from

the upper side thereof, a staple adapted to pass through said slot and to admit said lug, a locking member pivoted on said lug, 20 one end of the locking member constituting a hook adapted to pass downwardly through the staple and to embrace one leg of the same, and means cooperating with the opposite end of the lever to secure it in locking position. 25

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

JUDD B. CRANE.

Witnesses:

W. W. BONNEY,
L. R. THOMAS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."