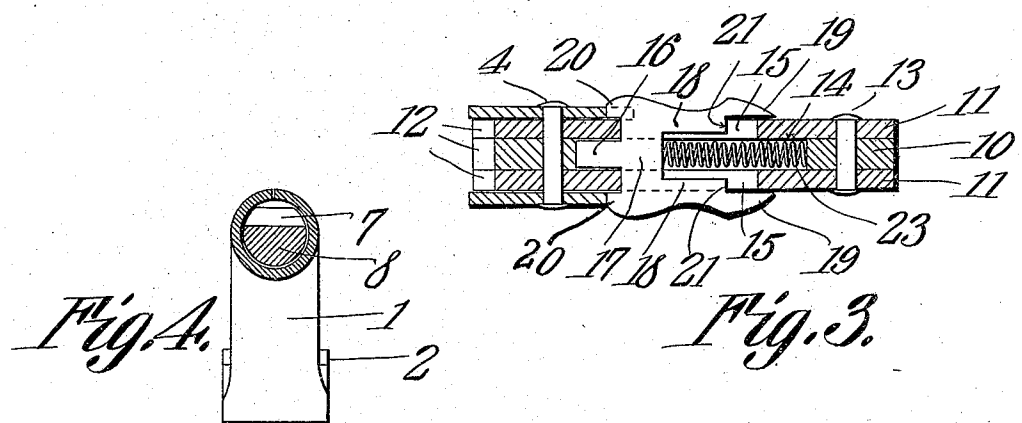
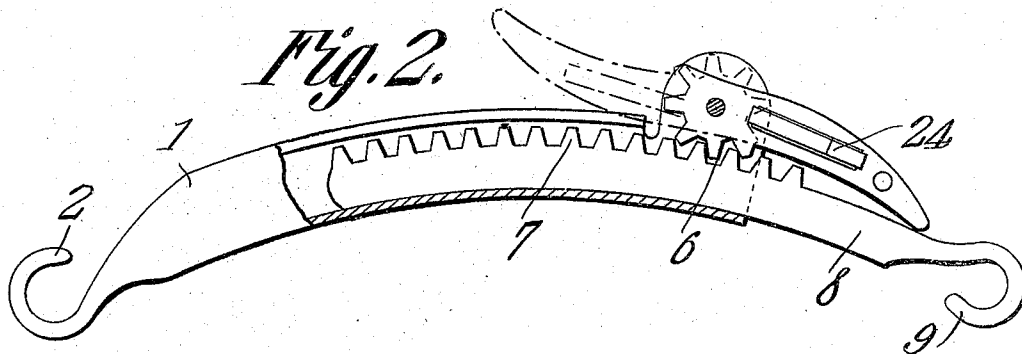
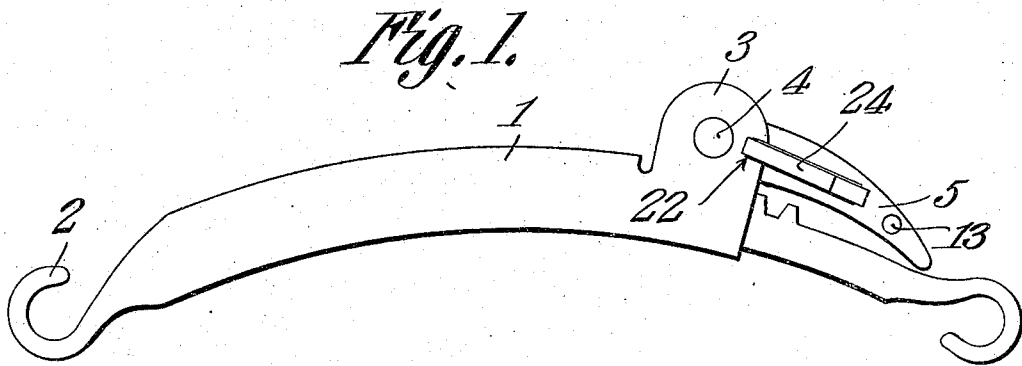


G. W. REYER.  
HAME FASTENER.  
APPLICATION FILED APR. 29, 1909.

939,321.

Patented Nov. 9, 1909.



Witnesses

*E. J. Stewart*  
Mason B. Lawton

Inventor

*Gus W. Reyer.*

By *CA Snow & Co.*  
Attorneys

# UNITED STATES PATENT OFFICE.

GUS W. REYER, OF WICHITA, KANSAS.

HAME-FASTENER.

939,321.

Specification of Letters Patent.

Patented Nov. 9, 1909.

Application filed April 29, 1909. Serial No. 492,979.

*To all whom it may concern:*

Be it known that I, GUS W. REYER, a citizen of the United States, residing at Wichita, in the county of Sedgwick and State of Kansas, have invented a new and useful Hame-Fastener, of which the following is a specification.

The device forming the subject matter of this application for Letters Patent, is intended as an improvement on the hame fastener shown and described in Patent No. 727,197, issued to me under date of May 5, 1903.

The objects of the invention are, generally, the provision, in a merchantable form, of a device of the class above mentioned which shall be inexpensive to manufacture, facile in operation and devoid of complicated parts; specifically, the provision, in a novel and improved form, of a holder, and a tension member designed to be used in connection with the holder, and of a lever for operating the tension member; of novel means for assembling the lever with the holder and for locking the lever in position upon the holder; other and further objects being made manifest hereinafter as the description of the invention progresses.

The invention consists in the novel construction and arrangement of parts hereinafter described, delineated in the accompanying drawings, and particularly pointed out in that portion of this instrument wherein patentable novelty is claimed for certain distinctive and peculiar features of the device, it being understood that within the scope of what hereinafter thus is claimed, divers changes in the form, proportions, size and minor details of the structure may be made without departing from the spirit or sacrificing any of the advantages of the invention.

Similar numerals of reference are employed to denote corresponding parts throughout the several figures of the drawings.

In the accompanying drawings:—Figure 1 shows my invention in side elevation; Fig. 2 shows the same in side elevation, parts being broken away better to illustrate the structure; Fig. 3 is a detail of a portion of the device, the same being shown in longitudinal section; and Fig. 4 is a vertical transverse section of the device.

In carrying out my invention, I provide, primarily, a holder 1, which is tubular in

form and arcuate in outline. One end of this holder 1 is flattened and bent to form a hook 2. Upstanding from the opposite end of the holder 1 are ears 3, provided in their peripheries with slots 22. Transversely mounted in the ears 2 is a pivot bolt 4, and mounted upon the pivot bolt 4 and free to swing thereon is a lever 5, provided at its lower terminal with a segmental gear 6, arranged to coöperate with the teeth 7 of the tension member, which, in the present instance, takes the form of a rack-bar 8, designed to be introduced into the holder 1 and to be slidably inclosed thereby, the end of the rack-bar which protrudes from the holder 1 being bent to form a hook 9, similar in form to the hook 2 of the holder 1.

Passing now to Fig. 3, wherein the lever is shown in detail, it will be seen that the same is laminated in construction, comprising a center member 10, upon either side of which are disposed side members 11. The said members 10 and 11 are terminally provided with teeth 12, and when the members 11 and 10 are brought into close relation by means of the rivet 13, which is passed transversely through them near their ends and by means of the pivot bolt 4, the teeth 12 matching in the several members, unite to form the segmental gear 6 of the lever. These members 10 and 11 are longitudinally slotted, the slot 14 of the inner member 10 being longer than the slot 15 in the side members 11, the slot 14 of the inner or center member extending at both its terminals beyond the slot 15 in the side members 11. Transversely mounted in the slots 14 and 15 is a catch 24, which, as shown in Fig. 3, may roughly be described as being of Y-shape. This catch 24 comprises a body portion 17, which is transversely mounted in the slots of the lever, a shank 16 projecting from the body portion 17. Extending from the terminals of the body 17 of the catch in an opposite direction to the shank 16 are arms 18, having forwardly extending portions 19 and rearwardly extending portions 20, the forwardly extending portions 19 being narrower than the arms 18, whereby are formed shoulders 21. A resilient element, preferably a coiled spring 23, is housed in one terminal of the slot 14 of the inner member being retained therein laterally by the side or outer members 11. This spring 23 bears at one end against the center member 10 at the end of the slot 14 therein, and

at the other end against the body portion 17 of the catch.

The shank 16 of the catch 24 taken with the forwardly extending portions 19 of the arms, and the rearwardly extending portions 20 thereof, serves to maintain the alinement of the catch as it slides in the slot, the shank 16 being housed between the side members 11, and the portions 19 and 20 of the said catch being arranged to engage the exterior of the side members 11. The arms 18 of the catch are arranged to register in the slots 15 of the side or outer members 11, and this construction serves further to maintain the alinement of the catch 24. The shoulders 21 of the catch 24 are designed to engage the side members 11 when the catch is moved against the tension of the spring 23, and to limit and define the motion of said catch.

Let it be supposed that the lever 5 is in the position shown in dotted line in Fig. 2. Then the operation of the device is as follows:—

When the lever 5 is in the position above mentioned, the segmental gear which is carried by the said lever is out of engagement with the teeth 7 of the rack-bar 8, and the said rack-bar 8 may readily be slid inward in the holder 1, to bring the rack-bar into a position in which it may be engaged by the segmental gear 6. When thus placed in position, the rack-bar 8 may be forced into the holder 1 and the hames drawn tightly about the collar by throwing the lever 5 into the position shown in Fig. 1, the segmental gear 6 engaging the teeth 7 of the rack-bar as the lever is thrown over. When the lever is in the position shown in dotted line in Fig. 2, the portions 20 of the catch 24 will be maintained by means of the spring 23 in contact with the periphery of the ears 3 of the holder 1. As the lever 5 is thrown from the position shown in dotted line in Fig. 2 to the position shown in solid line therein, the portions 20 of the catch will move over the periphery of the ears 3 until the said portions 20 encounter the slots 22. Actuated by the spring 23 the catch 24 will then be forced into the slots 22, the lever 5 being thereby locked in position after it has completed its function in forcing the rack-bar 8 into the holder 1 and tightening the hames about the collar.

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

1. In a device of the class described, a holder; a laminated lever pivoted in the holder and comprising a center member and side members disposed upon either side of the center member, all of said members being longitudinally slotted, the slot of the center member being longer than the slots of the side members; a catch transversely

mounted in the slots and being arranged to engage the holder; resilient catch-actuating means housed in the slot of the center member and being laterally retained by the side members; and a tension member mounted in the holder and being operable by the lever.

2. In a device of the class described, a holder; a laminated lever pivoted in the holder and comprising a center member and side members disposed upon either side of the center member, all of said members being longitudinally slotted, the slot of the center member being longer than the slots of the side members; a Y-shaped catch transversely mounted in the lever, the shank of the catch being disposed in the slot of the center member and being laterally retained by the side members; and the extremities of the arms of the catch being extended to engage the exterior of the side members; and a tension member mounted in the holder and being operable by the lever.

3. In a device of the class described, a holder; a laminated lever pivoted in the housing and comprising a center member and side members disposed upon either side of the center member, all of said members being longitudinally slotted, the slot of the center member being longer than the slots of the side members; a Y-shaped catch transversely mounted in the lever, the shank of the catch being disposed in the slot of the center member and being laterally retained by the side members, the arms of the catch being arranged to register in the slots of the side members and being terminally extended to engage the exterior of the side members; and a tension member mounted in the holder and being operable by the lever.

4. In a device of the class described, a holder; a laminated lever pivoted in the holder and comprising a center member, and side members disposed upon either side of the center member, all of said members being longitudinally slotted, the slot of the center member being longer than the slots of the side members; a Y-shaped catch transversely mounted in the lever, the shank of the catch being disposed in the slot of the center member and being laterally retained by the side members; and the extremities of the arms of the catch being extended to engage the exterior of the side members; a tension member mounted in the holder and being operable by the lever; resilient catch-actuating means housed in the slot of the center member and being laterally retained by the side members.

5. In a device of the class described, a holder; a laminated lever pivoted in the housing and comprising a center member and side members disposed upon either side of the center member, all of said members being longitudinally slotted, the slot of the center member being longer than the slots

of the side members; a catch transversely  
mounted in the lever, the shank of the catch  
being disposed in the slot of the center mem-  
ber and being laterally retained by the side  
5 members, the arms of the catch being ar-  
ranged to register in the slots of the side  
members and being terminally extended to  
engage the exterior of the side members; a  
tension member mounted in the holder and  
10 being operable by the lever; resilient catch-

actuating means housed in the slot of the  
center member and being laterally retained  
by the side members.

In testimony that I claim the foregoing as  
my own, I have hereto affixed my signature 15  
in the presence of two witnesses.

GUS W. REYER.

Witnesses:

C. A. MATSON,  
GEO. H. REYER.