(Model.)

J. STRAUS.

HAME FASTENER.

No. 263,737. Patented Sept. 5, 1882.

Fig. 1.

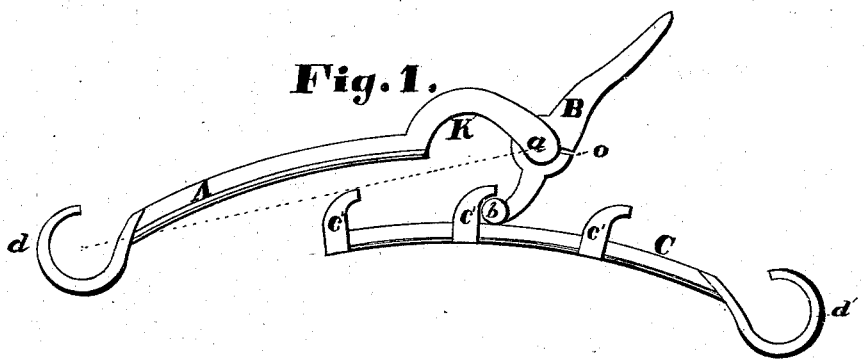


Fig. 2.

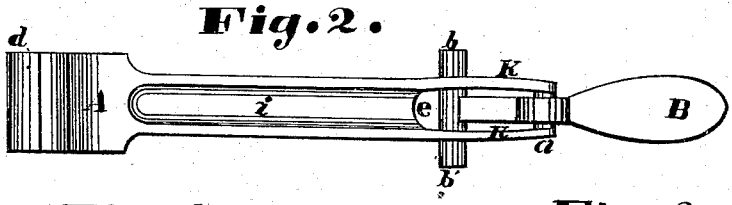


Fig. 4.

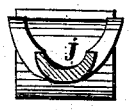
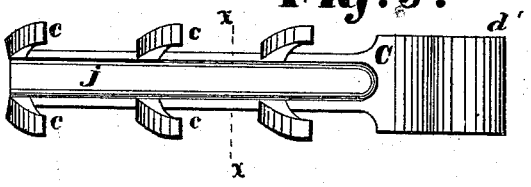


Fig. 3.



Attest:

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UNITED STATES PATENT OFFICE.

JACOB STRAUS, OF ST. LOUIS, MISSOURI.

HAME-FASTENER.

SPECIFICATION forming part of Letters Patent No. 263,737, dated September 5, 1882.

Application filed February 28, 1882. (Model.)

To all whom it may concern:

Be it known that I, JACOB STRAUS, a citizen of the United States, residing in the city of St. Louis and State of Missouri, have invented a new and useful Improvement in Hame-Fasteners, of which the following is a specification.

My invention relates to improvements in metallic hame-fasteners in which the parts are so constructed as to overcome some of the defects and objectionable features existing in other devices of this kind.

The objects of my invention are, first, to construct a hame-fastener so as to attain as large "take-up movement" as possible and hold it from any reaction or loosening in the adjustment of its several parts; second, to arrange adjustably a fulcrum and lever of the first-class, so it may be placed to act at any one of several points at short distances apart, in a hame-fastener to obtain "take-up motion" more perfectly; thirdly, to make a device strong yet small enough to lie entirely within the groove of the collar, so as to hold the hames securely, and at the same time support the collar against the strain that may be upon it from the pole-strap, which passes around it; fourth, to attain simplicity of construction, ease of operation, and ready removal in case of accidents. I attain these objects by the mechanism illustrated in the accompanying drawings, which form a part of this specification, in which—

Figure 1 is a side view, showing the parts of which the fastener is constructed open. Fig. 2 is a plan of the lever and fulcrum-arm. Fig. 3 is a plan view of the weight-arm or part acted upon by the lever, fulcrum, and power. Fig. 4 is a cross-section on the line *x x* of Fig. 3, showing the groove in which the parts A B, Fig. 2, rest when the fastener is locked.

Similar letters refer to similar parts in each of the views.

All the parts are made of metals.

A in Fig. 1 represents the fulcrumed-arm part of the fastener. It is curved outwardly lengthwise from a radial line drawn through the center of the hook *d*, by which it is fastened to the hame and the center pin or fulcrum, *a*, which is a part of the same casting. At its fulcrum end it has the irregular short curve K, both sides of which are arched and have the opening *e* between them extending to the fulcrum-pin *a*, forming under the arches a recess in which the T-head *b b'* and part of the lever B rest when the parts are locked under the studs *c c'* of the arm C, Fig. 3. Lengthwise this arm is rounded laterally upon its under side, and has the groove *i* upon the upper side.

Attached to the arm A, movably upon the fulcrum *a*, is the T-headed lever B, Fig. 1. Its parts are made of suitable length and strength, and it is cast with the slot *o* in it, which slot is made sufficiently large to admit the fulcrum *a* into it from the opening *e*, after which the slot is closed by hammering the parts together, thus fastening the lever in place. The T-heads *b b'* extend out sidewise far enough to lock under and against the brackets *c c'* on the edges along the arm C, as shown in this figure.

The arm C, Fig. 3, is shaped like the arm A, leaving off the curve *k*. Upon one end of it is the hook *d'*, for fastening it to the hame-strap or eye. The groove *j* is made some wider and deeper than the groove *i*, for the purpose of allowing the parts of A and B which rest upon it to lie closely in it, and thus cause the line of center draft between the locking parts to draw, so as to keep them from unlocking. Upon the outside of this arm, and along the opposite sides of the groove *j*, parallel to each other, are placed the L-shaped studs *c c'* in sets at short distances apart and rigidly attached, underneath and against which the T-heads *b b'* of the lever draw, tightening the hames upon the collar closely when power is applied to the lever-arm for locking the parts and keeping them so when in use.

Brief.—A hame-fastener made of cast metal and so constructed as to take up every quarter of an inch, if required, and shaped so as to lie entirely within the groove of a collar, so as to hold the hames securely, and at the same time form a strong support for the collar against any strain that is upon it from the pole-strap, which passes around it.

I am aware that hame-fasteners have been heretofore constructed having opposing arms provided with levers and corresponding teeth or stops for engagement therewith secured to

the hames, and locked or secured and unlocked by appropriate movement of the lever for engagement and disengagement with the said teeth. I therefore do not claim such construction, broadly.

What I do claim, and desire to secure by Letters Patent, is—

As an article of manufacture, the hame-fastener consisting of the arm A, formed with the longitudinal groove *i*, and the arms K, having pin *a* integral therewith, and the lever B, formed with slot O and secured on pin *a* by compressing the surrounding metal, in combination with the arm C, formed with longitudinal groove *j*, and the laterally-projecting brackets *c c*, forming fulcra for the lever B, and arranged to extend above and protect the said lever when locked, substantially as shown and described.

JACOB STRAUS.

Witnesses:
H. M. THOMPSON,
GEO. CREHORE.