A. SCHROEDER.

HINGE HASP.

APPLICATION FILED DEC. 24, 1917.

1,309,748.

Patented July 15, 1919.

2 SHEETS—SHEET 1.

Fig. 1

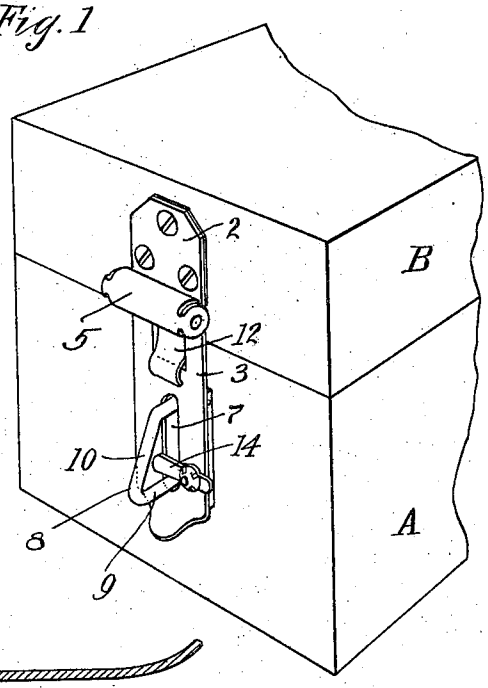


Fig. 5

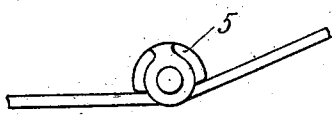


Fig. 4

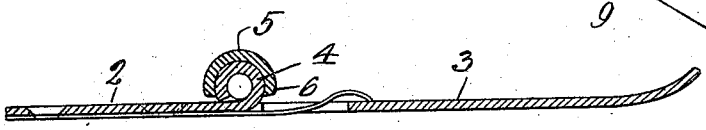


Fig. 2

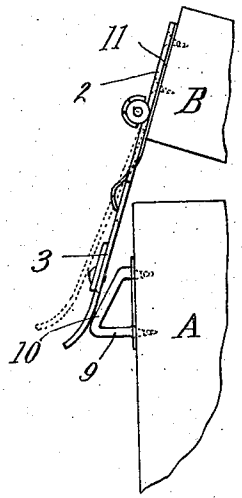
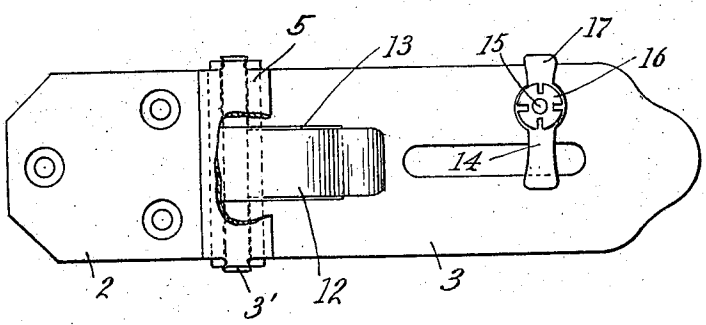


Fig. 3



Inventor;
Anton Schroeder
by A. C. Johnson
his Attorney.

THE COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

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2 SHEETS—SHEET 2.

Fig. 8

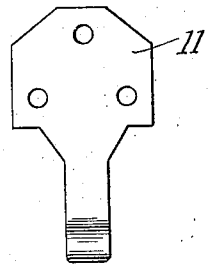


Fig. 7

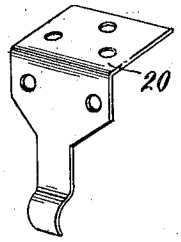


Fig. 6

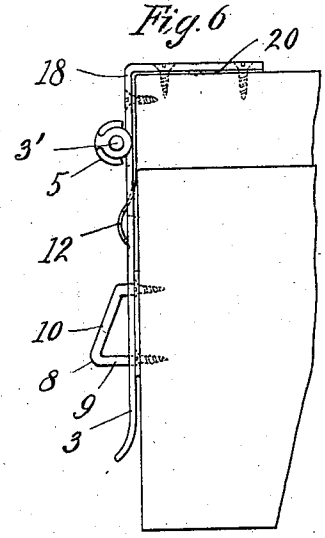


Fig. 9

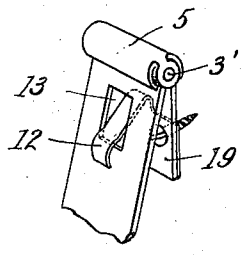


Fig. 10

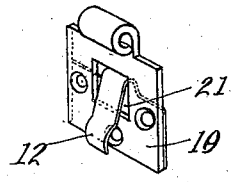


Fig. 11

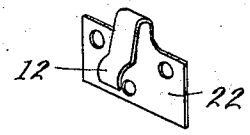


Fig. 13

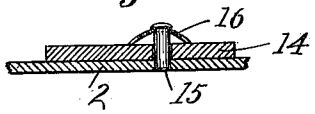
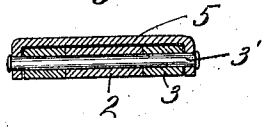


Fig. 12



Inventor,
Anton Schroeder
by C. C. Johnson
his Attorney.

THE COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ANTON SCHROEDER, OF ST. PAUL, MINNESOTA.

HINGE-HASP.

1,309,748. Specification of Letters Patent. Patented July 15, 1919.

Application filed December 24, 1917. Serial No. 208,541.

To all whom it may concern:

Be it known that I, ANTON SCHROEDER, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Hinge-Hasps, of which the following is a specification.

My invention relates to improvements in hinge hasps, its object being to provide means whereby the hinge strap of hasp, when brought into coöperating relationship with the staple will automatically interlock therewith and avoid the necessity of using separate locking means.

My improved hasp is especially designed for use in connection with boxes, cases, etc., but may be used wherever the ordinary hasp is applicable.

In the accompanying drawings forming part of this specification,

Figure 1 shows one form of my improved hasp arranged in connection with a box to form a fastening means therefor,

Fig. 2 is a side elevation of the parts shown in Fig. 1 showing the hasp opened in the opening movement of the box,

Fig. 3 is a plan view of a hasp showing Figs. 1 and 2 partly broken away,

Fig. 4 is a partial longitudinal section and a partial side view of the hasp shown in Fig. 3,

Fig. 5 is a detail of the hinge portion of the hasp,

Fig. 6 is a side elevation of a modified form of my improved hasp shown in connection with a box,

Fig. 7 is a detail of a spring used in connection with the form shown in Fig. 6,

Fig. 8 is a detail of the spring used in connection with the forms shown in Figs. 1 and 2,

Fig. 9 is a detail of a modified form of hasp,

Fig. 10 is a detail of one member of the hasp shown in Fig. 9,

Fig. 11 is a detail of a spring forming part of the hasp shown in Fig. 9,

Fig. 12 is a section taken along side the pintle of the hasp in Fig. 9, and

Fig. 13 is a detail view of a controlling spring for a locking lever forming part of my construction.

Referring to the drawings, A represents a box and B the cover thereof with which my improved hasp is shown associated.

The supporting plate 2 and the hinge plate 3 are fulcrumed in ordinary manner upon the pintle 3 as by having the adjacent ends of the plates 2 or 3 turned over the pintle to form a knuckle 4, plate 3 being formed with spaced pintle receiving lugs, and plate 2 with one lug fitting between said spaced lugs.

In carrying out my invention, I support a partial sleeve or cover 5 upon the pintle, said cover partially inclosing a knuckle as shown in Fig. 4, with its rear walls 6 standing slightly separate from adjacent plates 3. The cover 5 thus serves as a stop between the plates 3 and 2 to limit the opening movement of the hinge plate 3.

The plate 3 is formed with an opening 7 to receive staple 8. Staple 8 is constructed with a straight under side 9 so as to hold the hinge member of the hasp locked as indicated in Fig. 1, the outer side 10 of the staple being inclined to allow the hasp to slide over the same into locking position as indicated in Fig. 2.

A flat spring plate 11 is secured behind the supporting plate 2 of the hasp and is formed with a tongue 12 projecting outwardly through an opening 13 in the hinge member of the hasp with the free end of the tongue overlapping the outer face of said hinge member 3 of the hasp.

Thus the finger 12 will exert a spring pressure against the member 3 of the hasp to hold the same in locking position as shown in Fig. 1.

To further secure the hasp in the closed position shown in Fig. 1, I provide a finger lever 14 fulcrumed upon a pivot 15 and held in set position by a spring button 16. The lever 14 as shown preferably formed with the projecting end 17 to allow the same to be easily actuated by the finger and turned into and out of the position shown in Fig. 1.

In Figs. 6 and 9, I have shown two modified forms of hasps, embodying my invention; the first having an angular supporting plate 18 and the second having a concealed supporting plate 19, the latter being known in the art as a safety hasp, owing to the concealment of the screws when the strap 3 is in locking engagement with the staple 8.

In connection with the angular supporting plate, I use the angular spring plate 20 which is bent to closely conform to the shape of the supporting plate.

In the safety hasp form (Fig. 9) an open-

ing 21 in the supporting plate 19 is arranged to approximately register with the opening 13 in the hinge plate 3, when the latter is folded upon said supporting plate in locking engagement with the staple 8.

The spring plate 22 has an acute return bend in its finger 12, causing it to project downwardly and outwardly so that it may be projected through openings 13 and 21, to engage with its outer end, the outer face of the hinge plate 3 to exert spring pressure thereon.

Manifestly, my invention may be applied to many other forms of hinges without departing from the principle and certain features of construction hereinbefore described.

I claim:

A hasp of the class described, comprising a staple, a hinge member formed with an opening to receive said staple and with spaced pintle receiving lugs at one end, and a supporting plate for said hinge member having a pintle receiving lug fitting between said spaced lugs, a pintle in said lugs hingedly connecting said plates, a spring arranged in connection with said supporting plate and overlapping said hinge member, and a cover pivoted on said pintle and arranged over said pintle and said lugs to cover the joints between the latter and to form a stop limiting the movement of said hinge member in the manner set forth.

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

ANTON SCHROEDER.

Witnesses:
H. S. JOHNSON,
FLORENCE WINKLER.

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