

J. SCHACHT.
SHOE FASTENER.
APPLICATION FILED OCT. 10, 1908.

936,172.

Patented Oct. 5, 1909.

2 SHEETS—SHEET 1.

Fig: 1,

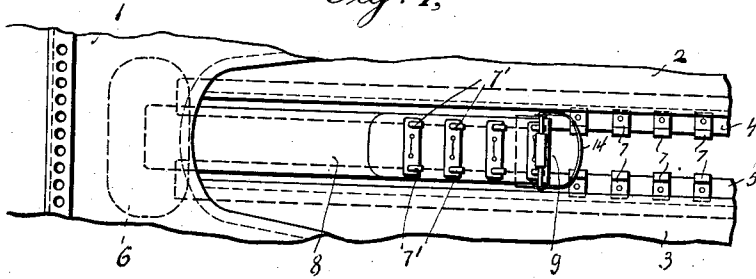


Fig: 2,

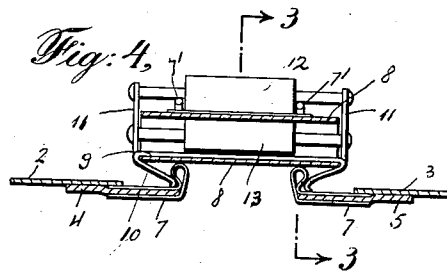
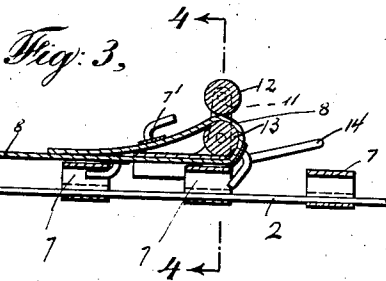
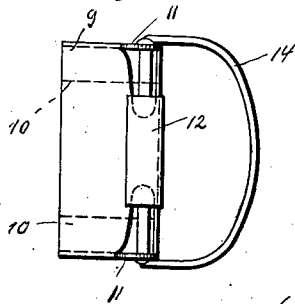


Fig: 5,



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2 SHEETS—SHEET 2.

Fig. 6.

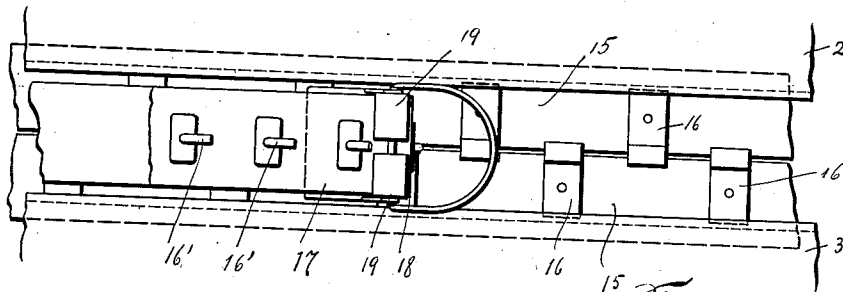


Fig. 7.

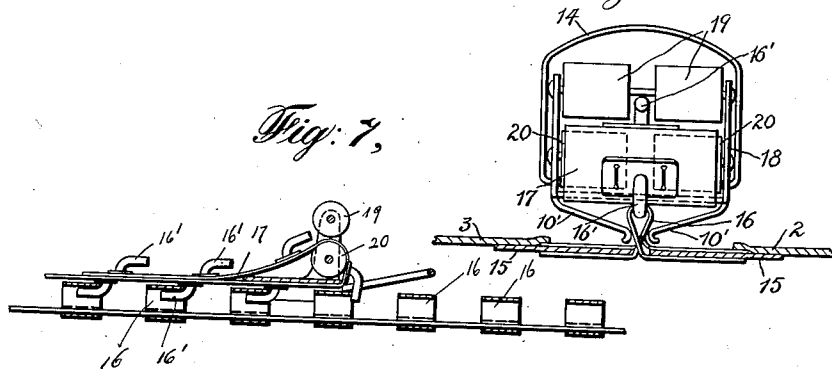
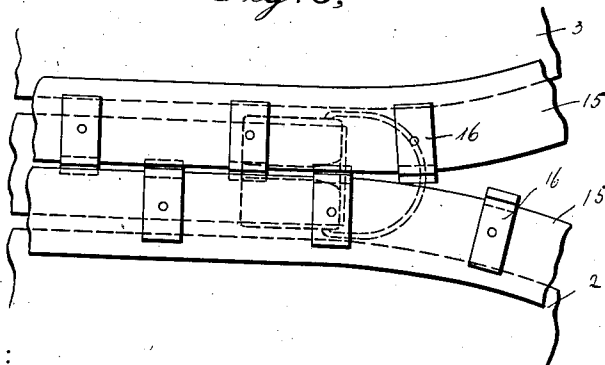


Fig. 8.



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UNITED STATES PATENT OFFICE.

JULIUS SCHACHT, OF NEW YORK, N. Y.

SHOE-FASTENER.

936,172.

Specification of Letters Patent.

Patented Oct. 5, 1909.

Application filed October 10, 1908. Serial No. 457,169.

To all whom it may concern:

Be it known that I, JULIUS SCHACHT, citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Shoe-Fasteners, of which the following is a specification.

The present invention pertains to shoe or garment fasteners and consists in the construction of a fastener, comprising eyelets and hooks that are so arranged relative to one another, that by a single operation, consisting in the drawing upward or stretching of a flap carrying the hooks, the hooks become automatically engaged with the eyelets, thereby effecting at once the fastening of the shoe or garment, and by a single reverse operation the shoe or garment is unfastened.

To make my invention more clear the same is illustrated in the accompanying drawing in which similar reference numerals denote corresponding parts and in which—

Figure 1 is a plan view of my new fastener as applied to a shoe; Fig. 2 is a side view thereof; Fig. 3 is a vertical section on line 3—3 of Fig. 4; Fig. 4 is a cross section on line 4—4 of Fig. 3; Fig. 5 is a top plan view of a detail in enlarged scale; Fig. 6 is a top plan view of the modified construction; Fig. 7 is a longitudinal section, Fig. 7^a is a cross section on Fig. 7 similar to that of Fig. 4, and Fig. 8 a bottom plan view thereof.

In the drawing 1 is the toe portion of the shoe upper and 2 and 3 are the two parts of the shoe upper that in fastening the shoe are to be drawn together.

4 and 5 are flies or strips of leather or the like attached to the parts 2 and 3, which at the lower end may be secured to or may be integral with a piece 6 secured to the shoe upper. These flies have each suitably attached to it a set of eyelets 7 formed of sheet metal or the like. The eyelets are so arranged that the openings therein are in planes perpendicular to the surface of the flies.

Sewed to or otherwise suitably secured inside of the toe portion of the shoe upper is a flap 8 of leather or other suitable material, which is adapted to extend centrally through the space between the two parts 2 and 3, and which is adapted, when drawn upward, to overlap the eyelets 7.

To the inner surface of the flap 2 two lateral rows of hooks 7' are secured, the

hooks in each row being spaced in conformity with the eyelets and arranged longitudinally with the flap, their open ends directed downward to allow of their engagement with the eyelets from above as the flap is being stretched or drawn upward.

To hold the flap while drawing it upward close to the eyelets and to effect the engagement of the hooks and eyelets, I provide a slide 9, the lateral ends of which are bent upon themselves forming guides 10 that are adapted to constantly be in frictional engagement with the outer lateral surfaces of one, two or more eyelets in each row. Formed integral with or secured to the slide 9 are lateral ears 11 that project upward from the surface thereof and in which two central rollers 12, 13 are journaled one above the other, which rollers permit the passage of the hooks at both sides thereof. The flap 8 is guided between the slide 9 and bent ends 10, and being bent upon itself is passed between the rollers. To the rear end of the slide 9 a bow or arm 14 is attached which serves as a handle for the shifting of the slide upward or rearward.

The mode of operation is as follows:—Supposing the shoe is unfastened, in which case the flap is folded upon itself, its free end projecting forward from within the rollers. To fasten the shoe the slide is shifted upward or rather rearward by means of the handle. The lower bent ends 10 of the slide, which as stated are constantly in frictional engagement with the lateral surfaces of the eyelets, prevent the flap from being moved away from above the eyelets and cause the hooks of the flap which, by this operation become gradually unfolded, to automatically engage the eyelets (as shown in Fig. 3). The bent ends 10 of the slide also draw the eyelets of the opposed flies together to adjust them in proper position in which the automatic engagement of the hooks is possible. When it is desired to unfasten the shoe or garment the upturned end of the flap that projects forward from the rollers is grasped, and by drawing it forward the hooks become automatically disengaged from the eyelets.

In Figs. 6, 7 and 8 a modification is shown, in which the flies 15 have each attached to it a set of eyelets 16, the eyelets of one set being displaced to those of the opposite set. The flap 17, instead of two lateral rows, has only one central longitudinal row of hooks

16'. In the present construction the flaps 15 are somewhat broader and the eyelets when drawn together are adapted to lie in a central longitudinal line. The slide 18, instead of having two central rollers, has two pairs of lateral rollers 19, 20 which permit the passage of the hooks between them while the flap is drawn rearward or forward. As in the first example, the slide 18 has bent edges 10' that are adapted to be in frictional engagement with one or a number of eyelets 16 and to thereby serve as a guide for the slide and to hold the flap 17 down upon the eyelets, permitting their engagement with the hooks 16'.

It is understood that the construction may be still more modified in various other ways without deviating from the spirit of my invention.

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

1. The combination with a shoe or garment having two parts to be drawn together, of eyelets secured to the said parts, a central flap secured to the shoe or garment and adapted to overlap the eyelets when extended or unfolded, hooks secured to the inside of said flap and adapted to automatically engage said eyelets at the unfolding or extension of the flap and to disengage therefrom at the folding of the same.

2. The combination with a shoe or garment having two parts to be drawn together, of eyelets secured to the said parts, a central flap secured to the garment or shoe and adapted to overlap the eyelets when unfolded, hooks secured to the inside of said flap and adapted to automatically engage

said eyelets at the extension or unfolding of the flap and to disengage therefrom at the folding of the same, and means to hold the flap while it is unfolded close to the eyelets.

3. The combination with a shoe or garment having two parts to be drawn together, of eyelets secured to the said parts, a central flap secured to the garment or shoe and adapted to overlap the eyelets when unfolded, hooks secured to the inside of said flap and adapted to automatically engage said eyelets at the extension or unfolding of the flap and to disengage therefrom at the folding of the same, means to hold the flap while it is unfolded close to the eyelets, and means to draw the opposite eyelets in position for engagement with the hooks.

4. The combination with a shoe or garment having two parts to be drawn together, of eyelets secured to the said parts, a central flap secured to the shoe or garment and adapted to overlap the eyelets when extended or unfolded, hooks secured to the inside of said flap and adapted to automatically engage said eyelets at the unfolding or extension of the flap and to disengage therefrom at the folding of the same, and a slide formed with projections to frictionally engage the eyelets and to cause their adjustment in proper position and serving as a guide for the flap.

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

JULIUS SCHACHT.

Witnesses:

JOSEPH E. CAVANAUGH,
MAX D. ORDMANN.