Oct. 12, 1926.

1,602,571

C. J. COONS

SHOE FASTENER

Filed March 19, 1926

Fig. 1.

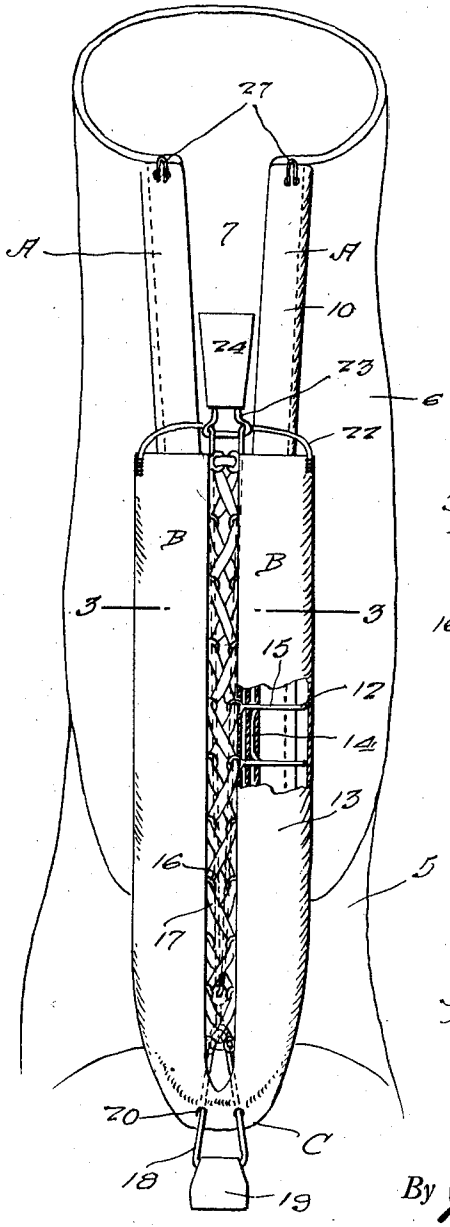


Fig. 2.

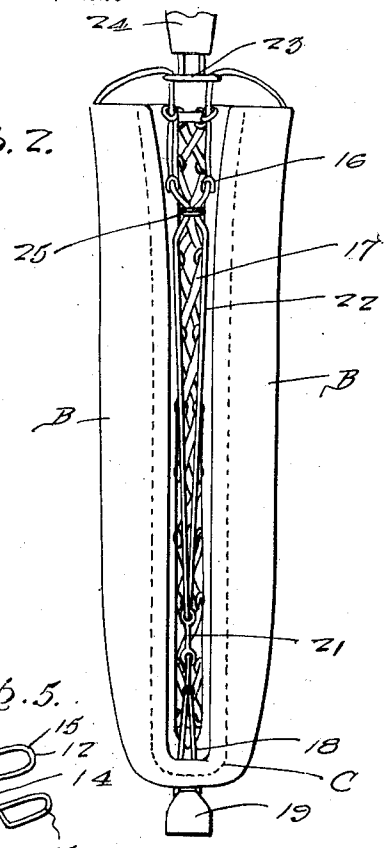


Fig. 5.

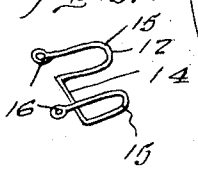


Fig. 3.

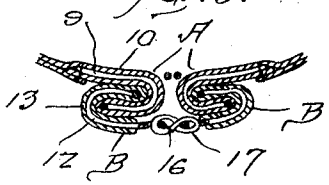
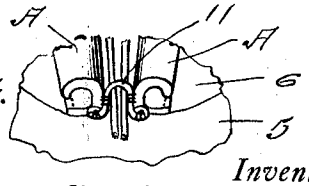


Fig. 4.



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UNITED STATES PATENT OFFICE.

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SHOE FASTENER.

Application filed March 19, 1926. Serial No. 95,949.

The present invention relates to shoe fasteners and has for its prime object to provide a device of this nature which will be substantial in use, easy to operate, cheaply constructed, and of attractive appearance and by the use of which the shoe may be fastened and unfastened quickly and easily by one operation.

Another important object of the invention is to provide a shoe fastener of this nature which will form an elastic connection between the edges of the opening of the shoe upper.

Another important object of the invention is the provision of a shoe fastener of this nature having a flexible member thereon slidable through a loop fixed to the shoe to prevent the loss of the fastener when the same is in a disengaged position.

Another important object of the invention lies in the production of a shoe upper having beads formed on the edges of the sides of the opening of the shoe upper on which are slidable flexible sections connected together by elastic lacing whereby said sections with their lacing may be slid along the beads for opening and closing said opening.

Another very important object of the invention lies in the provision of means for holding the sections in a closed position in relation to the opening of the shoe upper.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts hereinafter more fully described and claimed.

In the drawing:—

Figure 1 is a fragmentary front elevation of a shoe showing my improved fastener associated therewith,

Figure 2 is a plan view showing the inner face of the fastener,

Figure 3 is a cross section therethrough,

Figure 4 is a detail elevation showing a portion of the shoe and the bottom end of the fastener beads, and

Figure 5 is a detail perspective of one of the skeleton members.

Referring to the drawing in detail, it will be seen that the numeral 5 designates a shoe of any desired or conventional construction which is provided with the usual upper 6 having the opening 7, the sides of which are formed with beads indicated generally by the letters A. These beads A are U-shaped in cross section or end elevation as is apparent respectively from Figures 3 and 4, thereby forming channels. Each bead is constructed from a plurality of skeleton members indicated generally by the numerals 9 which are covered by leather such as the shoe upper is made from, indicated at 10. A loop 11 is held by stitching or the like between the lower ends of the beads A.

The fastener includes a pair of slide sections indicated generally by the letters B. Each section B includes a plurality of skeleton members 12 covered by leather 13. These slide sections are U-shaped in cross section and are connected at their bottom ends as is indicated at C. The outer sides of the sections B extend toward each other as clearly shown in Figure 3 and slide inside the channels of the beads A. The skeleton members 9 are similar in construction to the skeleton members 12. One of the skeleton members 12 is shown in a detail perspective view in Figure 5, and referring thereto it will be seen that this skeleton member 12 is formed from a single strand of wire providing an intermediate portion 14 having a pair of U-shaped frames 15 merging therefrom in spaced parallelism and terminating in eyes 16. These eyes 16 are exposed as clearly seen in Figures 1, 2, and 3, so that an elastic strip 17 may be laced therethrough, thereby forming an elastic connection between the two slide sections B. A flexible strand 18 has its intermediate portion passed through a tab 19. The strand is then trained through openings 20 in the connection C and is then attached to a clevis 21. Another flexible strand 22 is trained through an eye on the end of the clevis 21 and through some of the upper eyes 16 and through a loop 23 on a tab 24, and then attached to the upper ends of the sections B. Immediately below the bottom eyes 16 through which the strand 22 is trained, the runs of said strand are connected as at 25. The strand 18, clevis 21, and strand 22 are trained through the loop 11. Thus by pulling on the tab 19, the slide sections B may be moved downwardly as is indicated at Figure 1 for unfastening the opening 7. The tab 24 may be pulled upwardly for pulling the sections so as to close the opening 7. The strand 18, clevis 21, and strand 22 prevent the fastener from being totally removed from the shoe and

becoming misplaced or lost. Suitable fastening elements 27 are provided at the upper ends of the beads A with which the upper portions of the strand 22 may be engaged for holding the fastener in a closed position against sliding movement downwardly.

From the above description it will be seen that I have provided a fastening device which can be conveniently brought to a closing position and as readily and rapidly carried to a releasing position, so that the shoe can be unobstructedly removed from the foot, and which is simple, durable, effective, and inexpensive to manufacture as well as attractive in appearance.

It is thought that the construction, operation, and advantages of this invention will now be clearly understood without a more detailed description thereof. The present embodiment of the invention has been disclosed in detail since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description. It will be apparent, however, that numerous changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

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

1. A shoe fastener of the class described; wherein the shoe is provided at the sides of its opening with a pair of beads; a pair of slide sections on said beads and elastic connecting means between said slide sections, each section being made up of a plurality of skeleton members covered by flexible material, each skeleton member including an intermediate straight portion merging into U-shaped frames disposed in parallel spaced relation.

2. A shoe fastener of the class described; wherein the shoe is provided at the sides of its opening with a pair of beads; a pair of slide sections on said beads and elastic connecting means between said slide sections, each section being made up of a plurality of skeleton members covered by flexible material, each skeleton member including an intermediate straight portion merging into U-shaped frames disposed in parallel spaced relation, said frame terminating in eyes which are exposed beyond the covering material, and said means being in the form of lacing trained through said eyes.

3. A shoe fastener of the class described; wherein the shoe is provided at the sides of its opening with a pair of beads; a pair of slide sections on said beads and elastic connecting means between said slide sections, each section being made up of a plurality of skeleton members covered by flexible material, each skeleton member including an intermediate straight portion merging into U-shaped frames disposed in parallel spaced relation, said frame terminating in eyes which are exposed beyond the covering material, said means being in the form of lacing trained through said eyes, a loop between the bottom ends of the beads, and a flexible member attached to the top and bottom ends of the sections and trained through said loop.

4. A shoe fastener of the class described; wherein the shoe is provided at the sides of its opening with a pair of beads; a pair of slide sections on said beads and elastic connecting means between said slide sections, each section being made up of a plurality of skeleton members covered by flexible material, each skeleton member including an intermediate straight portion merging into U-shaped frames disposed in parallel spaced relation, said frame terminating in eyes which are exposed beyond the covering material, said means being in the form of lacing trained through said eyes, a loop between the bottom ends of the beads, a flexible member attached to the top and bottom ends of the sections and trained through said loop, fastening elements provided at the upper ends of the beads for engagement by the flexible member.

In testimony whereof I affix my signature.

CHARLES J. COONS.