

E. F. KING.
 DEVICE FOR PACKAGING SHOE, CORSET, AND OTHER LACES.
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1,372,884.

Patented Mar. 29, 1921.

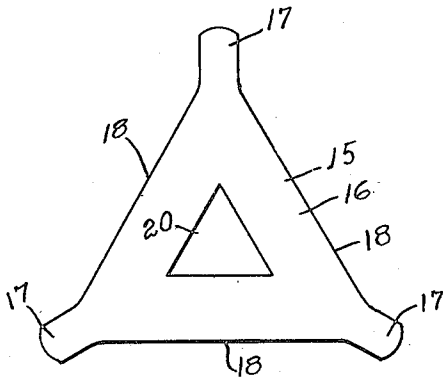


Fig. 1

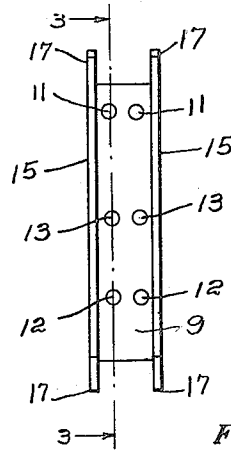


Fig. 2

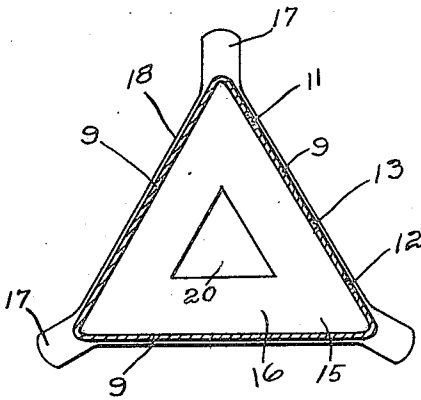


Fig. 3

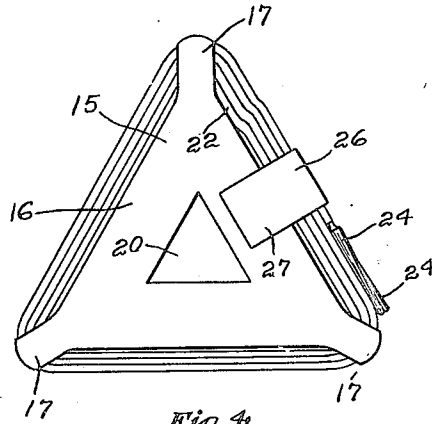


Fig. 4

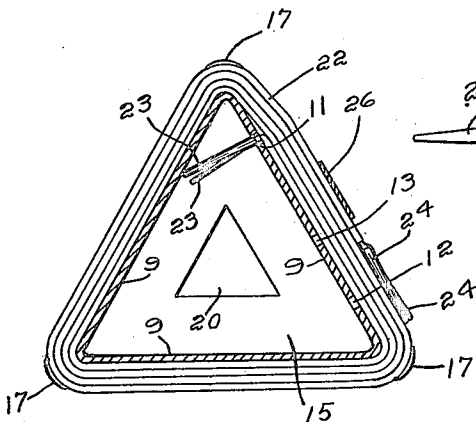


Fig. 5

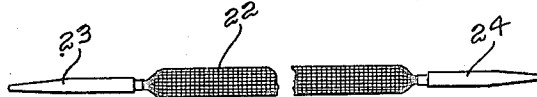


Fig. 6

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UNITED STATES PATENT OFFICE.

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DEVICE FOR PACKAGING SHOE, CORSET, AND OTHER LACES.

1,372,884.

Specification of Letters Patent.

Patented Mar. 29, 1921.

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To all whom it may concern:

Be it known that I, EDWARD F. KING, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Devices for Packaging Shoe, Corset, and other Laces, of which the following is a specification.

My invention relates to a device adapted for packaging shoe, corset, and other laces, and particularly for laces in pairs.

The essential objects of my invention are, adaptation of a single package to accommodate laces of varying lengths, at the same time insuring that outer tips lie in a predetermined position and in parallel contact with the windings; to insure a maximum sightly and even wind; to conserve space in packing the packages in a larger receptacle, to facilitate the winding of the package; to prevent tangling and to attain these ends in a simple, neat, compact, and inexpensive structure.

To the above ends essentially my invention consists in such parts and in such combinations of parts as fall within the scope of the appended claims.

In the accompanying drawings which form a part of this specification, and which illustrate the principle of this invention and the best mode now known to me of applying that principle—

Figures 1 and 2 are side and edge elevations respectively of my package empty,

Fig. 3, a section on line 3—3 of Fig. 2,

Fig. 4, a side elevation of the same filled,

Fig. 5, a section of the same taken on a line corresponding with line 3—3 of Fig. 2, and

Fig. 6, a detail view of a shoe lace.

Like reference characters indicate like parts throughout the views.

In the form of my invention illustrated a single strip of thin sheet metal is bent to constitute a frame comprising angularly disposed walls 9, in this instance three in number, constituting a triangle. One wall has a pair of holes 11 arranged side by side near one end, similarly arranged holes 12 near its other end, and a like pair of holes 13 nearer to the holes 12 than to the holes 11. The holes of the series of couplets are in longitudinal alinement with each other.

Retaining walls 15 of thin sheet metal are

fastened by solder or otherwise to the opposite edges of the frame. Each wall 15 comprises in this instance a triangular body portion 16 and arms 17 at the corners of the body portion. The walls 9 of the frame are parallel with and adjacent the angularly disposed marginal edges 18 of the retaining walls, while the angles of the frame terminate at the bases of the extensions 17.

In the center of each wall is an angular opening 20.

Upon the described structure the laces are wound in pairs. Two shoe laces 22 with opposite tips 23 and 24 in unwound position have their two end tips 23 inserted through a pair of holes, in this case 11, and the strings are then together wound in independent coils side by side on the frame and the tips 24 rest flat on the flat windings of the laces. It is important that the tips 24 terminate at a point on the flat winding, because the presence of a tip 24 at a corner of the package would cause it to project at an angle from the package and prevent an effective or complete package. The tips 24 should preferably rest near a corner of the winding to afford ample room for the binding means, if any binding means is desired. In order to accommodate the package to laces of different lengths so as to insure the proper position of the outer tips, it will be noted that pairs of holes 11, 12, and 13 are at varying distances in the frame. The tips 23 are therefore, inserted into different pairs of holes according to the different length of laces.

The free ends of the laces may be retained, if desired, in any convenient manner such as by fastening the outer layers by a pin. I prefer employing as a binding means a strip of flexible material such as paper, which is passed over the windings and has its ends pasted to the exterior of the retaining walls 15.

It will be understood that while the package shown is constructed of metal, the material may be of other material such as cardboard, and the parts thereof may be attached together in any convenient manner.

It is obvious that many changes in details of construction within the spirit of my invention may be made.

I claim:—

1. In a lace package, a triangular frame provided with holes arranged in pairs

spaced from each other, retaining walls on the ends of said frame, and laces coiled about the frame and having their inner ends in one pair of said holes and their outer ends resting on the coils of the laces at a distance from the corner of the package.

2. In a lace package, a triangular frame provided with holes arranged in pairs spaced unequally from each other, retaining walls on the ends of said frame, and laces coiled about the frame and having their inner ends in one pair of said holes and their outer ends resting on the coils of the laces at a distance from the corner of the package.

3. In a lace package, a triangular frame provided with holes arranged in pairs spaced from each other, retaining walls on the ends of the frame, laces comprising coils embracing the frame having their inner stiffened tips in the holes and their outer stiffened tips resting on the coils, and a

binding strip embracing the coils and having its ends fast to the retaining walls.

4. A frame comprising angularly-disposed walls, one of said walls having openings therein in pairs, and retaining walls of triangular form secured to the opposite edges of said frame and having arms at the corners of the frame to serve as retainers for laces wound upon said frame.

5. In a lace package, a frame provided with holes in pairs spaced apart, retaining walls on the ends of the frame forming a housing for the laces, laces coiled upon the frame between said walls with one end in the holes of the frame and their other ends resting on the coiled laces, and means for retaining said last-mentioned ends in position upon the coils.

In testimony whereof I have affixed my signature.

EDWARD F. KING.