No. 618,614. Patented Jan. 31, 1899.

M. A. POSSONS.

SHIPPING PACKAGE.

(Application filed Aug. 16, 1898.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

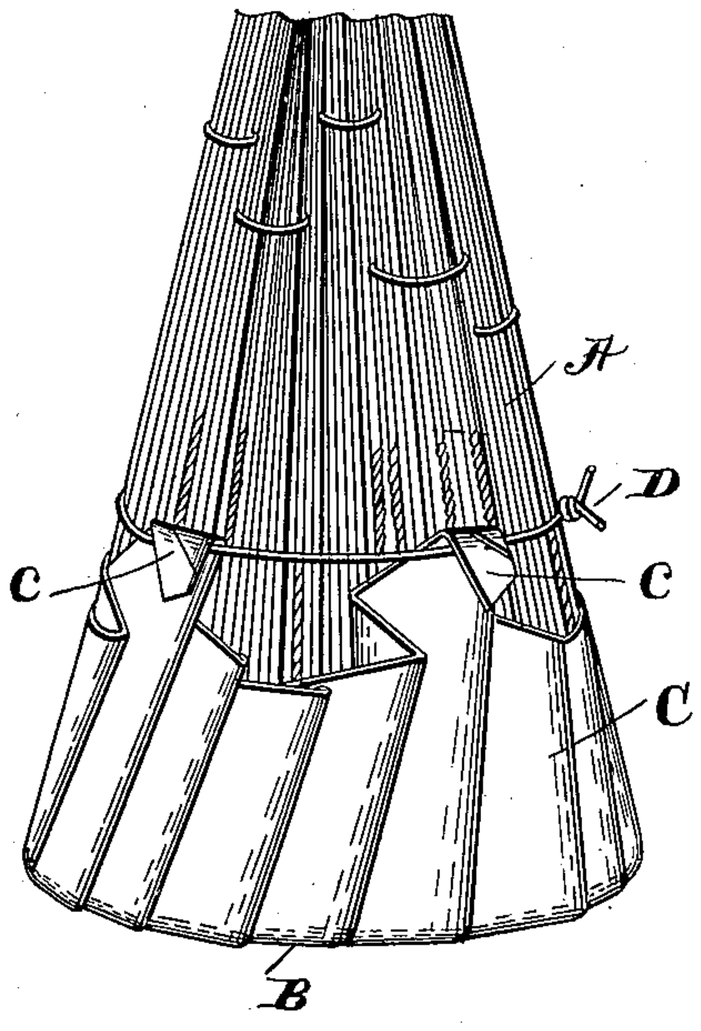


Fig. 2.

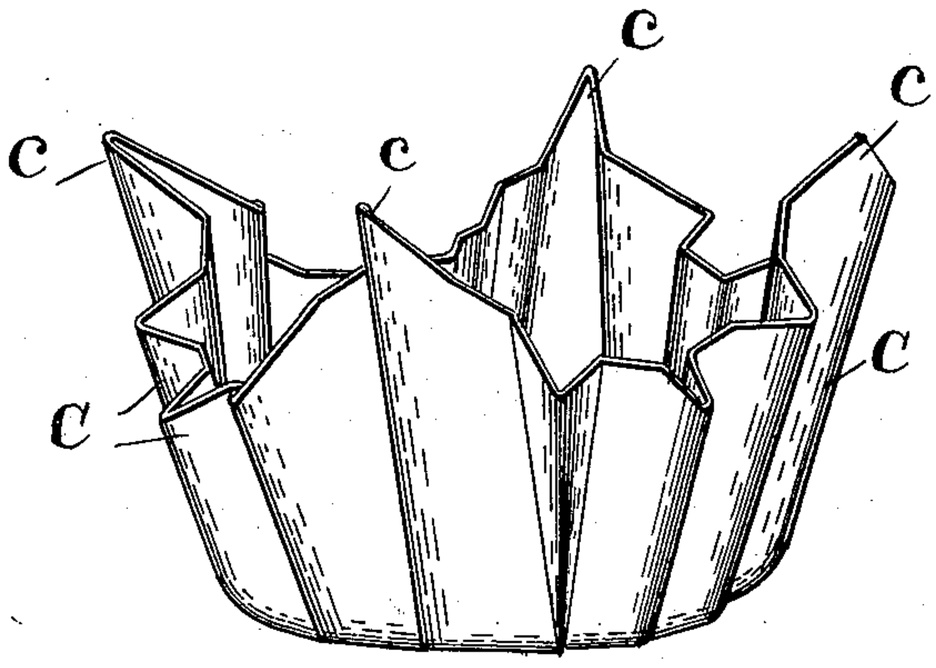
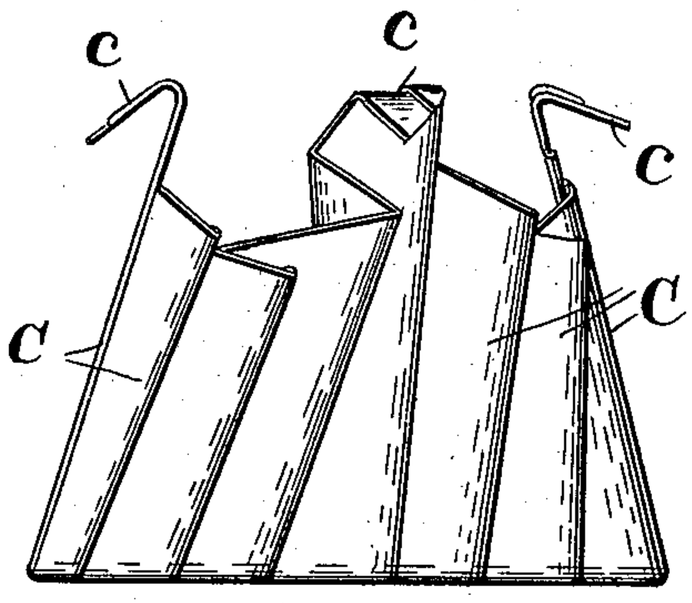


Fig. 3.



Witnesses
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(No Model.) 2 Sheets—Sheet 2.

Fig. 4.

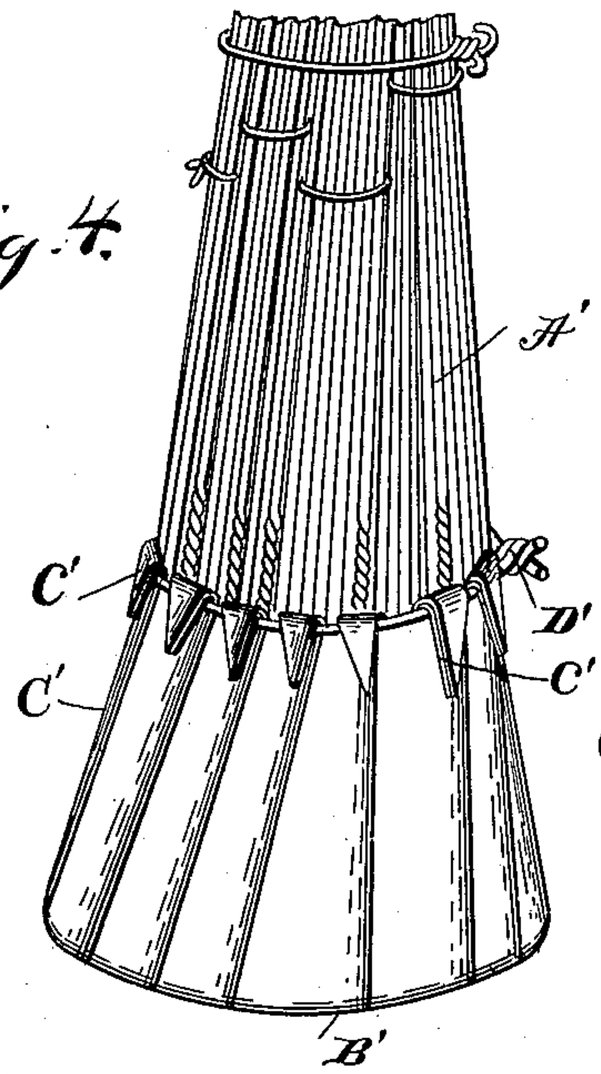


Fig. 6.

Fig. 5.

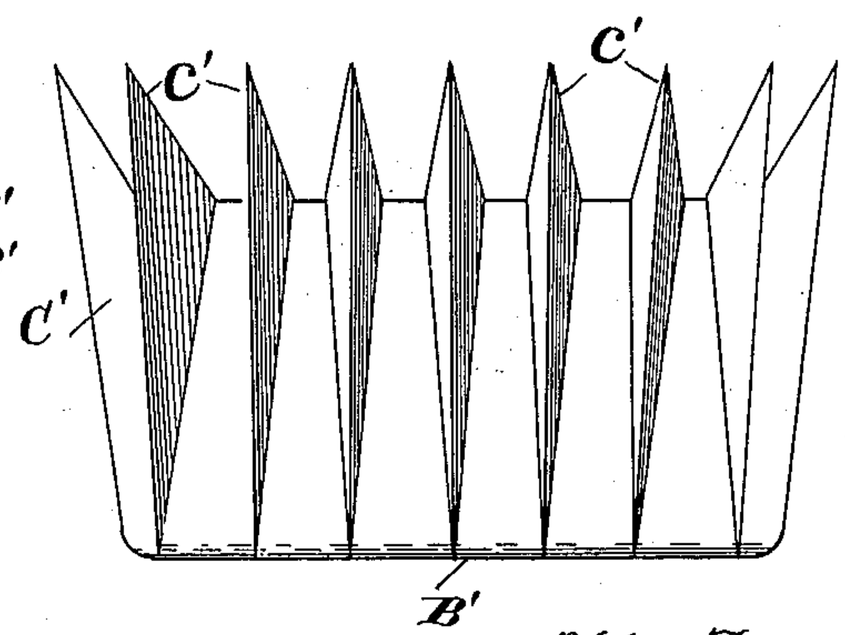
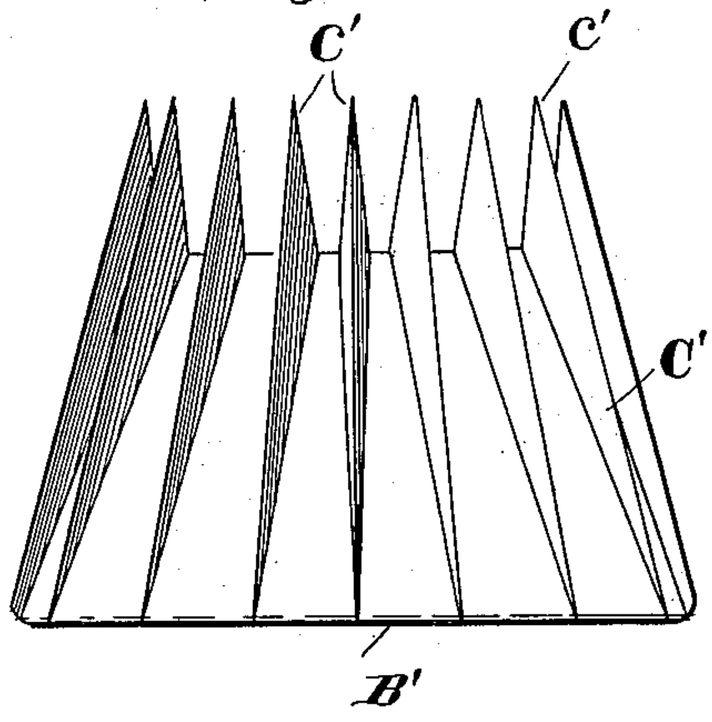
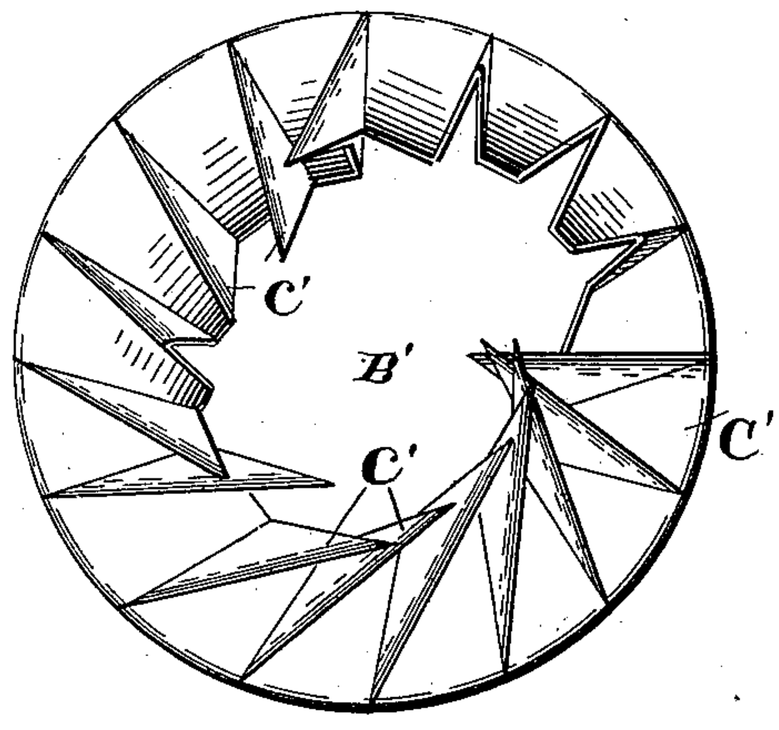


Fig. 7.





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UNITED STATES PATENT OFFICE.

MINARD A. POSSONS, OF CLEVELAND, OHIO.

SHIPPING-PACKAGE.

SPECIFICATION forming part of Letters Patent No. 618,614, dated January 31, 1899.

Application filed August 16, 1898. Serial No. 688,730. (No model.)

To all whom it may concern:

Be it known that I, MINARD A. POSSONS, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented new and useful Improvements in Shipping-Packages, of which the following is a specification.

My invention relates to improvements in shipping-packages, and pertains particularly to a device constructed to protect the end or ends of a package of wire bale-ties, all of which will be fully described hereinafter, and especially pointed out in the claims.

Packages of wire bale-ties have heretofore been protected at one or both ends by means of a burlap sewed therearound, but which has been found inadequate to properly protect the ends of the ties, and consequently in practice the manufacturers suffer a large loss in the way of returned injured ties, which, owing to their injury, cannot be repaired to withstand the necessary strain and must either be thrown in the scrap pile or cut down into shorter ties, and in either event causing a considerable loss to the manufacturer. The size of wire and length of bale-ties are marked on the burlap, and when the bale-ties are shipped a long distance the burlap becomes so badly damaged and dilapidated that it is very difficult and oftentimes impossible to distinguish their dimensions. This difficulty is overcome in using my device in that the dimensions are marked or embossed on the metallic caps and will remain intact, which is very desirable in packages of this character. By means of the simple and cheap device hereinafter shown and described I am enabled to afford absolute protection for the ends of the ties of a package, and thus avoid the loss to the manufacturer and to insure the reading of the size of the wire and ties by the person receiving the package.

In the accompanying drawings, Figure 1 is a perspective view of a package embodying my invention. Fig. 2 is a side elevation of the protector, showing it open. Fig. 3 is a detached perspective view of the protector. Figs. 4, 5, 6, and 7 are views of a modification of my protector.

A represents a bundle of wire bale-ties arranged longitudinally, as illustrated and in the usual manner, making a bundle which is tapering in shape.

My invention pertains to a metallic protector which is cup-shaped, as clearly shown in Fig. 2, having a transverse end B and a fluted or wrinkled side C. The inner end of this fluted side is provided with a plurality of projecting arms or prongs *c*, which are adapted to be turned around a wire D, that is passed around the bundle of ties, as also illustrated, and prevents the protector from sliding outward thereof, owing to the increased shape.

The side C of the protector is fluted, as before stated, before being applied to the bundle to form the shipping-package, and after being placed over the ends of the package this fluted side is lapped, as clearly illustrated in Figs. 1, 3, and 7, one wrinkle or flute being lapped over the adjoining one and the projection or arms *c* doubled around the wires, which firmly holds the protector to its place on the ends of the bundle of ties and affords absolute protection therefor. This protector is formed of thin sheet metal and is struck up in any desired manner to the form or forms shown, ready to be quickly applied to the bundle by lapping or folding the fluted side thereof.

The protector, as illustrated in Figs. 1, 2, and 3, is formed from a square sheet of metal, thus forming the four projecting points or arms *c*, which are adapted, as illustrated in Fig. 1, to be passed around the wire D.

While I prefer the form shown in Figs. 1, 2, and 3, in that it is the cheapest in respect to the quantity of metal required to form it, I do not limit myself to that particular shape. For instance, the protector may be formed from a circular sheet of metal, in which event it will appear as shown in Figs. 4, 5, 6, and 7. In this instance each fold or lap is provided with a projecting arm *c'*, and the flute or wrinkles C' are lapped one over the other—say as illustrated in Figs. 1, 2, and 3—when it has been applied to the package of bale-ties. It is not necessary that the protector shall have an arm *c'* for each of the folds or laps when formed from a circular sheet of metal, as in Figs. 4, 5, 6, and 7, and only a small number of arms may be provided instead of one for each lap, as illustrated

in these figures, without departing from the scope and spirit of my invention. In this modified construction the protector is provided with the end B′, the same as in Figs. 1, 2, and 3.

A protector formed of sheet metal in substantially the manner herein shown and described provides absolute protection for one or both ends of the bale-tie, and also provides an indestructible means for marking thereon the size of the wire and bale-ties, which is found to be a defect when destructible material, such as burlap, is used.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A shipping-package comprising a plurality of longitudinally-arranged wire articles, a cup-shaped protector passed over one or both ends thereof, the protector having a fluted side adapted to be folded against the side of the bundle, and projections or arms, and a wire passed around the bundle at a point inside the protector and to which the said arms are fastened, substantially as described.

2. A cup-shaped metallic protector for shipping-packages having a longitudinally-fluted side, and securing members carried by the side, substantially as described.

3. A cup-shaped metallic protector for shipping-packages having a longitudinally-fluted side, and securing-arms projecting from the inner end of the side, substantially as described.

4. A protector of the character described formed from a rectangular sheet of metal bent into a cup shape and having fluted or wrinkled sides, the corners of the sheet forming projecting arms for attachment to the package, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

MINARD A. POSSONS.

Witnesses:

LYMAN A. REED,

A. J. BLACKFORD.