May 11, 1926. 1,583,919

E. E. FLORA

SEAL

Original Filed August 4, 1917

Fig. 3

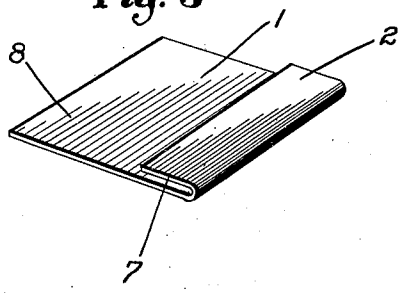


Fig. 2

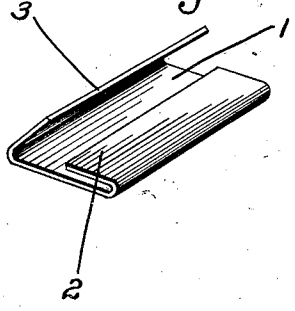


Fig. 4

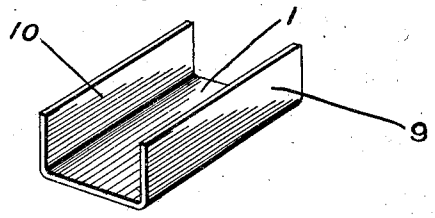


Fig. 1

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Patented May 11, 1926. 1,583,919

UNITED STATES PATENT OFFICE.

ELLSWORTH EPHRAIM FLORA, OF CHICAGO, ILLINOIS, ASSIGNOR TO CONSOLIDATED STEEL STRAPPING COMPANY, A CORPORATION OF DELAWARE.

SEAL.

Application filed August 4, 1917, Serial No. 184,535. Renewed December 20, 1923.

This invention relates to seals for metallic box straps designed to surround and support a box or package under tension and particularly to an improved partially preformed seal by which the packaging operation is facilitated.

Seals of the kind herein alluded to are customarily made as slotted flat tubular sheet metal devices which are slipped endwise onto one of the strap ends, after which the other strap end is slidably inserted into the opposite end of the seal. The strap is then stretched and the seal and enclosed mutually overlapping strap ends simultaneously crimped to provide a tension resisting joint. According to my invention the seal is made in such a fashion that it can be applied simultaneously to both overlapped strap ends, requires less time to apply and less clearance for the strap ends, eliminates troublesome manipulation, and is otherwise advantageous over the seal now made.

In the drawings:—

Fig. 1 is a perspective view of a section of the box having box strapping thereon and showing the seal of my invention being applied thereto.

Fig. 2 is a perspective view of a form of the invention.

Figs. 3 and 4 are perspective views of modifications thereof.

1 represents the body portion of a seal constructed according to my invention provided with a folded-over wing 2 and a wing 3, partially folded over but not interfering with the application of the seal sideways on the strap. By this construction it will be apparent that the seal can be applied slidably upon the overlapped box strap ends 4 (see Fig. 1) after the same have been overlapped and without necessity for any clearance or troublesome manipulation such as is necessary when the two ends of the strap must be separately threaded through a tubular seal. As the seal is applied in the manner indicated to the left of Fig. 1, wing 3 slips in under the strap and the seal and strap are crimped to produce the joint illustrated at 5 in Fig. 1. It will be noted that between the body portion 1 and the wing 2 is formed a slot or pocket 7 against the bottom of which the overlapped edges of the strap fit when the seal is being applied. This accurately aligns and defines the position of the seal, as well as bringing the edges of the strap into correct relative position. The application of such a seal is extremely simple and in many classes of work where the threading of the individual strap ends through a tubular seal is extremely difficult, a seal of the character above described affords many advantages.

In Figs. 3 and 4 are modifications of the seals shown in Fig. 2. In Fig. 3 the wing 8 corresponding to the wing 3 in Fig. 2 is left in the plane of the body portion 1. In Fig. 4 the wings 9 and 10 are each partially bent to form a channel which can simultaneously receive the overlapped strap ends, after which both wings 9 and 10 may be folded in to encircle the strap.

Having now described my invention, I claim:—

1. A seal for tensional box strapping and the like comprising a sheet metal device adapted to receive the overlapped strap ends simultaneously and comprising a back member and wings, one of said wings being folded over in position to engage the edges of the overlapped strap ends at the fold to properly locate the seal with respect to the strap ends, and the other wing being opened out to permit the seal to be applied simultaneously to both strap ends after the same have been overlapped.

2. A seal for tensional box strapping and the like comprising a malleable metallic device comprising a back member and a pair of wings integral therewith, one of said wings being folded over to provide a slot pocket into which both overlapped strap ends may be simultaneously and sidewise inserted, the other wing being folded over partially and sufficiently to be engageable with the strap ends when they have been simultaneously inserted, but not sufficiently to prevent said simultaneous insertions, said malleable metallic device being adapted to be crimped simultaneously with the strap ends into a crimped joint.

3. The method of strapping boxes, which consists in applying a strap to the box, over-

lapping the ends of the strap, applying an open reinforcing girth, comprising a back piece and wing pieces opened sufficiently for the girth to be applied to both overlapped strap ends simultaneously and in a direction transverse to length of the strap ends, to simultaneously partially encircle both overlapped strap ends, bending the girth to completely encircle the strap ends and forming interlocking deformations simultaneously in the strap ends and the girth.

In testimony whereof, I have signed my name to this specification.

ELLSWORTH EPHRAIM FLORA.