

A. E. MORGAN.
PACKAGE BINDER.
APPLICATION FILED APR. 9, 1910.

1,014,506.

Patented Jan. 9, 1912.

Fig. 1.

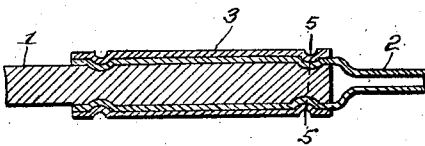
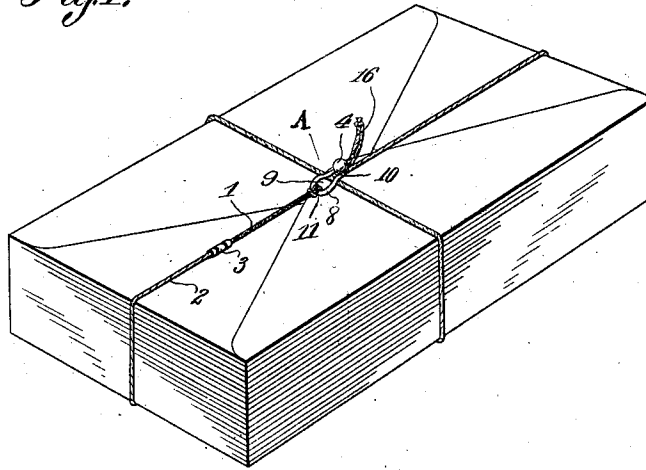


Fig. 3

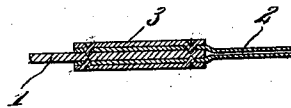


Fig. 2



Fig. 4

Witnesses
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UNITED STATES PATENT OFFICE.

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PACKAGE-BINDER.

1,014,506.

Specification of Letters Patent.

Patented Jan. 9, 1912.

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To all whom it may concern:

Be it known that I, ALFRED E. MORGAN, a citizen of the United States of America, residing at Hartford, in the county of Hartford and State of Connecticut, have invented new and useful Improvements in Package-Binders, of which the following is a specification.

This invention relates to improvements in cord couplings and more particularly to the means of connecting cords for package binders whereby an elastic and non-elastic cord may be employed, said elastic and non-elastic cords forming means whereby the package binder may be conveniently operated.

With the above and other objects in view the invention consists in the construction, combination and arrangement of parts as hereinafter fully set forth and claimed, and illustrated in the accompanying drawing, wherein;

Figure 1 is a perspective view of a package binder secured in position and illustrating my improved cord coupling applied thereto. Fig. 2 is a section taken through the connecting flexible elements showing the clamping element therefor. Fig. 3 is a similar view showing a slightly modified form of clamping elements. Fig. 4 is a cross section on the line 5—5 of Fig. 3.

Referring more particularly to the accompanying drawing, wherein is illustrated the preferred embodiment of my invention, the letter A designates a package binder composed of a flexible but non-elastic cord 2 and an elastic cord 1. The non-elastic cord is fitted at its outer end to a spherical retainer 4, which is apertured, for the reception of the outer terminal of the cord. The outer end of the elastic cord 1 is provided with a keeper 8 which is formed to provide a cylindrical passage 9, which communicates with a contracted passage 10 in said keeper. The keeper is provided with an extension 11 to which the said outer terminal of the elastic cord is tied. The flexible non-elastic cord 2 is of hollow cylindrical form in cross section so that the inner end of the elastic cord 1 can be inserted in a portion of the non-elastic cord as shown in Fig. 2 of the drawing. The inner end portions of the two cords de-

scribed are secured together by a clamp 3, the said clamp consisting of a single piece of suitable sheet metal bent in cylindrical form to surround the cords at their meetings ends, as shown. The cylindrical member forming the clamp is stamped or otherwise suitably formed to provide a plurality of inwardly extending anchoring spurs which are embedded in the cords when the clamp is in its applied position. In this manner I effectively secure the two cords together and hold them against accidental disengagement from each other.

In the modified form of my invention shown in Fig. 3, the clamping member is formed to provide a plurality of annular gripping portions which are operable to bite into the connected end portions of the cords, as is obvious.

The device described is particularly designed for use with package binders, but it is obvious that it may be used for other similar purposes where it is desired to hold two cords connected.

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

1. A device of the class described comprising elastic and non-elastic cords, said non-elastic cord being of tubular form and fitting over one end of said elastic cord a sleeve fitting over the connected ends of the elastic and non-elastic cords, said sleeve being formed to provide a plurality of gripping portions to grip the connecting ends of said cords whereby to hold said cords against separation.

2. A device of the class described, comprising elastic and non-elastic cords, said non-elastic cord being of tubular form and fitting over one end of said elastic cord, a sleeve fitting over the connected ends of the elastic and non-elastic cords, said sleeve having portions stamped to engage the said elastic and non-elastic cords whereby to hold said cords against separation.

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

ALFRED E. MORGAN.

Witnesses:

BURTON HILLS,
B. A. GILBERT.