No. 649,816. Patented May 15, 1900.

F. C. DAVIS.

FILE WRAPPER AND PACKAGE FASTENER.

(Application filed Dec. 30, 1899.)

(No Model.)

Fig. 1.

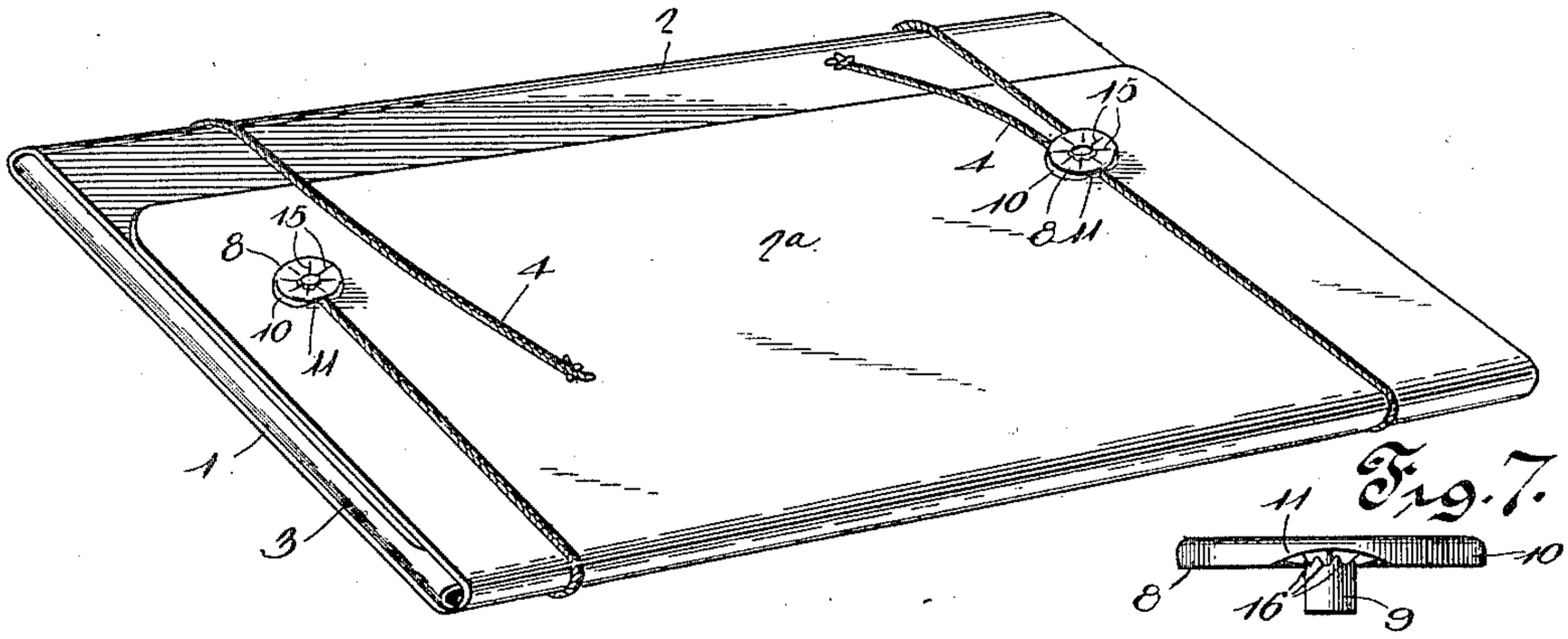


Fig. 7.

Fig. 2.

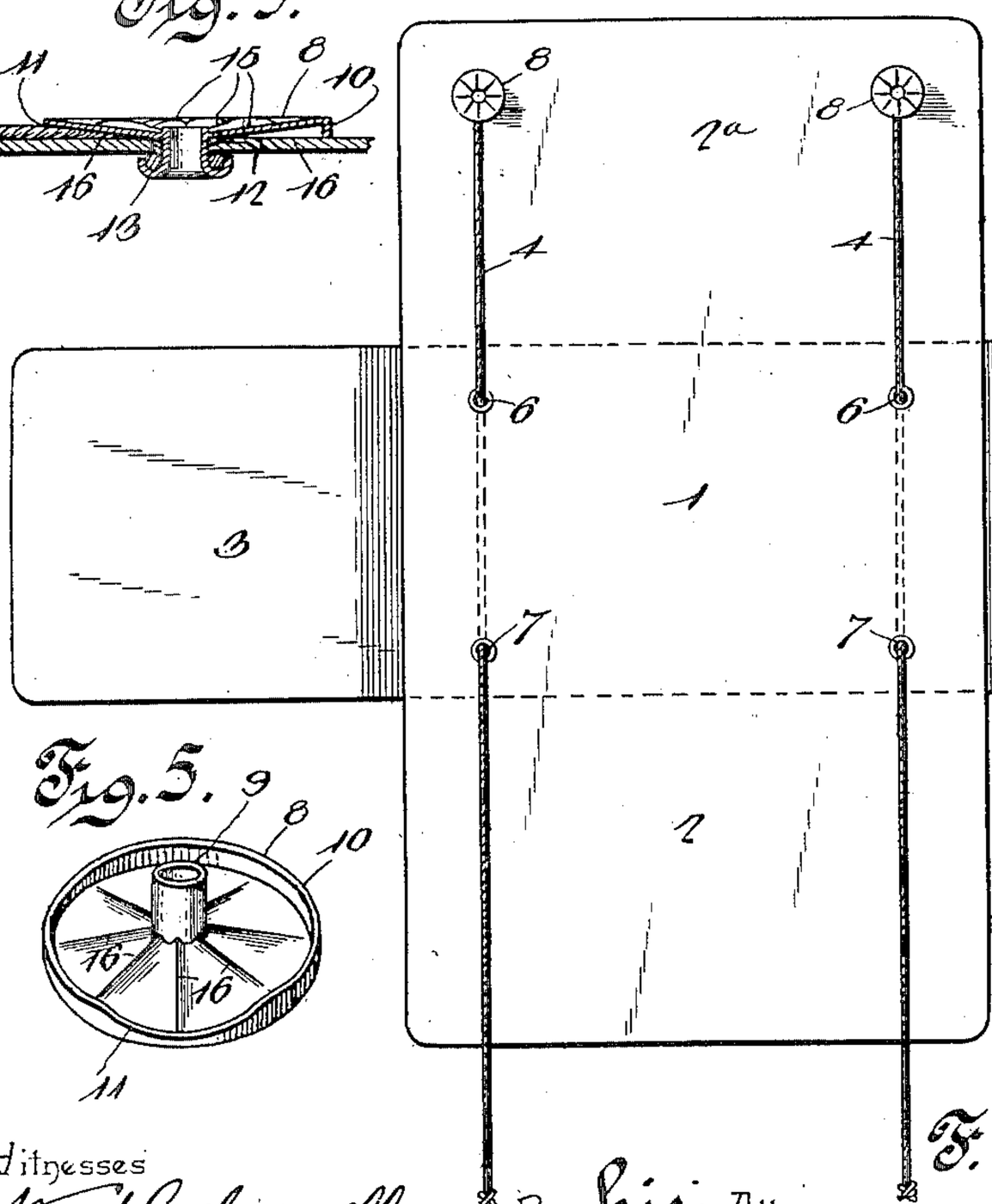


Fig. 3.

Fig. 4.

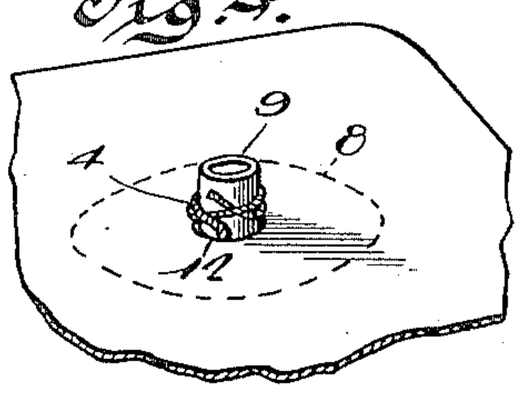
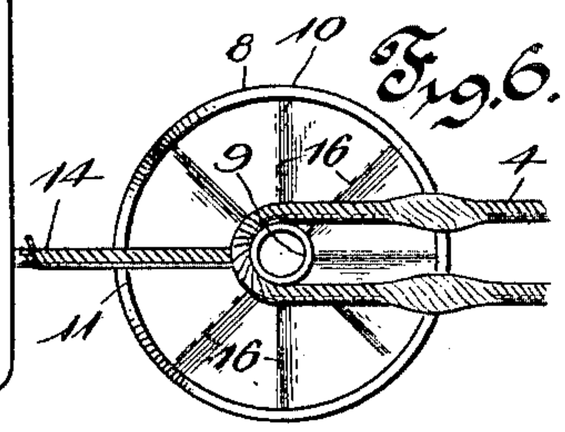


Fig. 5.

Fig. 6.



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UNITED STATES PATENT OFFICE.

FREDERICK CLARKE DAVIS, OF AUSTIN, TEXAS.

FILE-WRAPPER AND PACKAGE FASTENER.

SPECIFICATION forming part of Letters Patent No. 649,816, dated May 15, 1900.

Application filed December 30, 1899. Serial No. 742,103. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK CLARKE DAVIS, a citizen of the United States, residing at Austin, in the county of Travis and State of Texas, have invented a new and useful File-Wrapper and Package Fastener, of which the following is a specification.

This invention relates to expansible envelops, file-wrappers, and similar packages having a flexible cord or the like to embrace the wrapper and thereby hold the contents therein.

The objects of the invention are to provide an improved arrangement of the securing-cord, so as to facilitate the closing of the package, and also to provide an improved fastening device for fixedly connecting one end of the cord to the package. It is furthermore designed to provide means for conveniently securing the opposite free end of the cord, so that the latter may hold the package in a tight embrace, while at the same time permitting of the cord being readily released when it is desired to have access to the interior of the package.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of a file-wrapper or like package provided with the present fastening means. Fig. 2 is a plan view of the package in its open or extended position. Fig. 3 is an enlarged central sectional view of the means for fastening the cord. Fig. 4 is an inverted detail perspective view illustrating the first step in securing the fixed end to the cord. Fig. 5 is a detail inverted perspective view of the device for securing the cord. Fig. 6 is a reverse plan view thereof, showing both ends of the cord secured thereto. Fig. 7 is a side elevation of the fastening-disk.

Corresponding parts in the several figures of the drawings are designated by like characters of reference.

Referring to the accompanying drawings, 1 designates the back of the file-wrapper or package, having the opposite side flaps 2, which extend longitudinally of the back, and the end flaps 3. As indicated in Fig. 1 of the drawings, the end flaps 3 are first folded inwardly across the inner side of the back, and afterward the side flaps are alternately folded over upon the end flaps.

To hold the several flaps after being folded, I provide one or more cords 4, preferably two in number and arranged adjacent to opposite ends of the package. One end of each cord is fixedly connected adjacent to the outer free edge of one of the side flaps 2 and is extended inwardly across the exterior of the flap and passed through a perforation 6, so as to extend transversely across the inner side of the back 1, as indicated in dotted lines in Fig. 2 of the drawings. The cord then extends outwardly through a perforation 7, formed through the back and adjacent the opposite edge thereof, and the free end of the cord extends transversely across the outer side of the other side flap. As indicated in Fig. 1 of the drawings, the side flap 2^a, to which the cord is fixedly secured, is located exteriorly of the opposite side flap, so that the free end of the cord may be conveniently secured to the fixed end in the manner hereinafter described.

In order that the fixed end of the cord may be firmly secured to the package, I have provided a fastening device 8 in the form of a metallic disk having a central hollow stem or shank 9 and a marginal flange 10, extending in the same direction as the shank and provided with a notch or opening 11. To secure the fixed end of the cord, the latter is passed inwardly through an opening 12, formed in the flap 2^a and adjacent the outer edge thereof, and afterward the stem 9 of the disk 8 is also passed inwardly through the same perforation, so that the head of the disk is located upon the exterior of the flap and the stem or shank projects at the inner side thereof. The cord is then wrapped upon the stem or shank,

as indicated in Fig. 4 of the drawings, and the extremity of the cord is passed beneath the portion which extends outwardly through the perforation 12, and then the end of the stem or shank is bent or crimped outwardly upon the wrapped portions of the cord, as shown at 13 in Fig. 3. The outer portion of the cord, as indicated by the numeral 14, extends radially from the shank or stem and passes outwardly through the notch or opening 11 in the flange 10, and such notch or opening is disposed toward the folded edge of the flap, so that the cord may extend transversely of the latter.

The free end of the cord is secured to the fastening-disk by being looped transversely across the opposite portion of the cord and forced beneath the flange 10, so as to contact with the stem or shank, as best illustrated in Fig. 7 of the drawings. The opposite edges of the notch or opening in the flange 10 diverge outwardly and are rounded or beveled, so that when the free end of the cord is looped and drawn against the notched portion of the flange the opposite edges of the notch will form wedges or guides to aid or facilitate the passage of the cord beneath the flange. It will thus be apparent that the under side of the disk has a frictional engagement with the looped portion of the cord, so as to hold the free end thereof firmly to the fastener.

To provide for a more positive and effectual frictional engagement between the disk and the cord, the former is dished or concaved and provided upon its outer side with a plurality of radial grooves or corrugations 15, which are pressed or struck into the head of the fastener, so as to form a plurality of radial ribs or teeth 16 upon the inner or under side of the disk. The lower or inner edges of these ribs incline inwardly and downwardly, so as to form wedges to bind the cord between them and the adjacent side of the package when the looped portion of the cord is drawn beneath the flange and toward the attaching-shank.

The purpose of the flange 10 is to substantially close the space between the outer edge of the disk and the adjacent surface of the file-wrapper, so as to form a guard to prevent papers or other files from catching beneath the disk, as will be readily understood. The inner or lower edge of this flange also has a frictional engagement with the looped end of the cord, so as to form an additional fastening therefor.

When it is desired to have access to the interior of the package, the cord may be readily released by forcibly drawing the free end thereof from beneath the ribs or teeth and the flange of the fastening, whereby the several flaps are released and may then be opened or folded outwardly.

From the foregoing description it will be apparent that the fixed end of the cord is firmly connected to the package and not liable to be torn therefrom, and by passing the cord through the opposite perforations in the back said cord is always held in proper position for conveniently securing the flaps. Moreover, the same device which secures the fixed end of the cord also serves to detachably secure the free end of the cord.

What is claimed is—

1. A fastening device of the class described, comprising a flanged disk, and a cord having one end secured thereto, its opposite end being arranged to be engaged beneath the flange, the latter having a notch in its outer edge, and the opposite edges of said notch diverging outwardly to facilitate the engagement of the cord beneath the flange.

2. A fastening device of the class described, comprising a flanged disk, having a central attaching stem or shank projecting in the same direction as the flange, the latter having a notch in its outer edge, the opposite edges of the notch diverging outwardly, and a cord having one end secured to the stem or shank, and its opposite end to be engaged beneath the flange of the disk.

3. A fastening device of the class described, comprising a disk, having a central attaching shank or stem, and radial ribs or teeth projecting at the inner side of the disk and inclining downwardly and inwardly toward the stem or shank, to form wedges, and a cord having one end connected to the stem or shank, and the free end of the cord to be looped beneath the disk and into frictional engagement with the ribs or teeth.

4. A package-fastening device, comprising a disk, having a central hollow stem or shank passing through a perforation in the package, and a marginal flange extending in the same direction as the stem or shank and provided with a notch or opening, and a cord having one end extending inwardly through the opening in the marginal flange and through the perforation in the package, the adjacent extremity of the cord being wrapped upon the projecting portion of the stem or shank, and the latter being bent or crimped upon the wrapped portion of the cord, and the free end of the cord to be engaged beneath the flange of the disk.

5. A fastening device of the class described, comprising a disk having a central hollow attaching shank or stem, radial ribs or teeth upon the inner side of the disk, and a marginal flange projecting in the same direction as the stem or shank, and provided with a notch or opening.

6. The combination with a file-wrapper, comprising a back, and opposite inwardly-foldable flaps, of a fastening device therefor comprising a disk having an attaching shank or stem connected to one of the flaps, and a marginal flange extending toward the adjacent side of the flap, and provided with a notch or opening directed toward the folded edge of the flap, the opposite edges of the

notch being inclined and diverged outwardly, and a cord, having one end fixedly connected to the shank or stem and extending outwardly through the notch or opening in the flange and embracing the package, the free end of the cord to be engaged beneath the flange of the disk.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

FREDERICK CLARKE DAVIS.

Witnesses:

E. HUPPERTZ,

JAS. P. HART.