

F. E. SPEARS.  
BUNDLE TYING DEVICE.  
APPLICATION FILED JAN. 2, 1908.

910,597.

Patented Jan. 26, 1909.

Fig. 1.

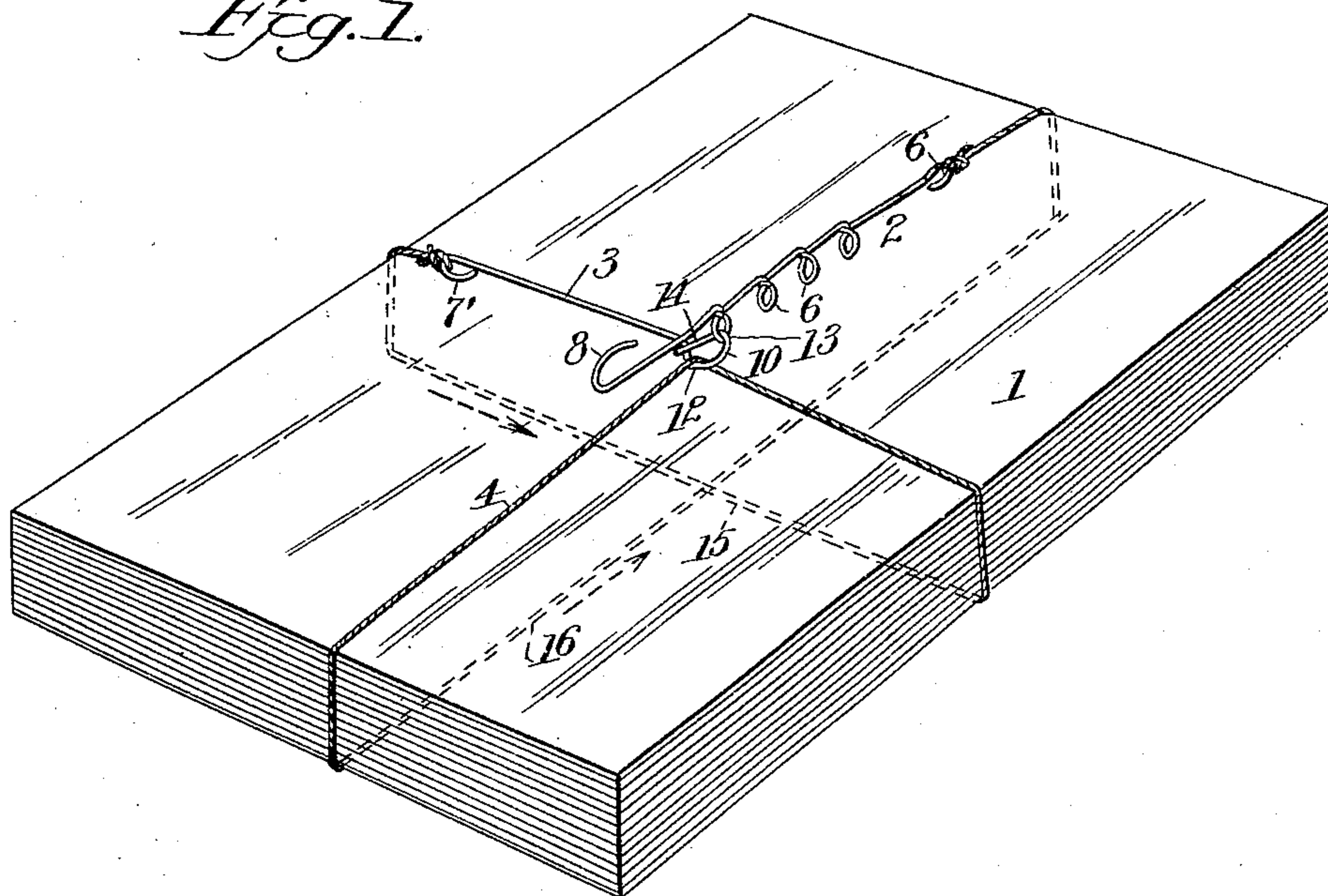


Fig. 2.

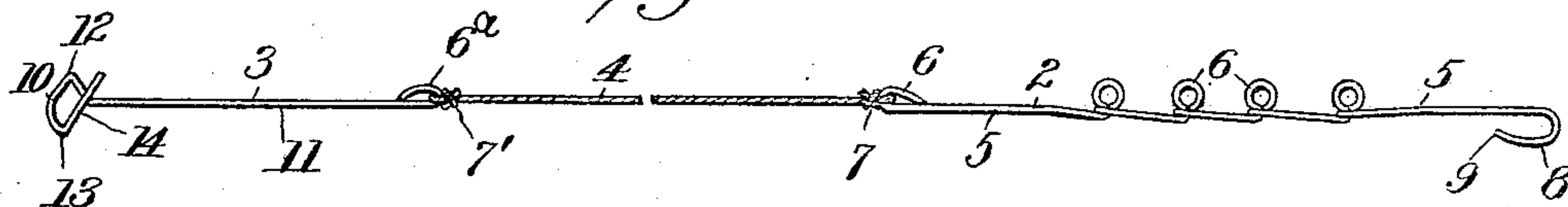


Fig. 3.

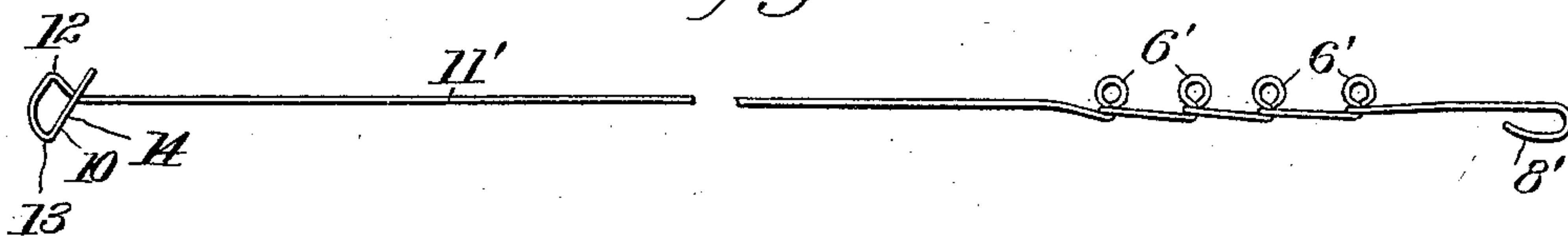
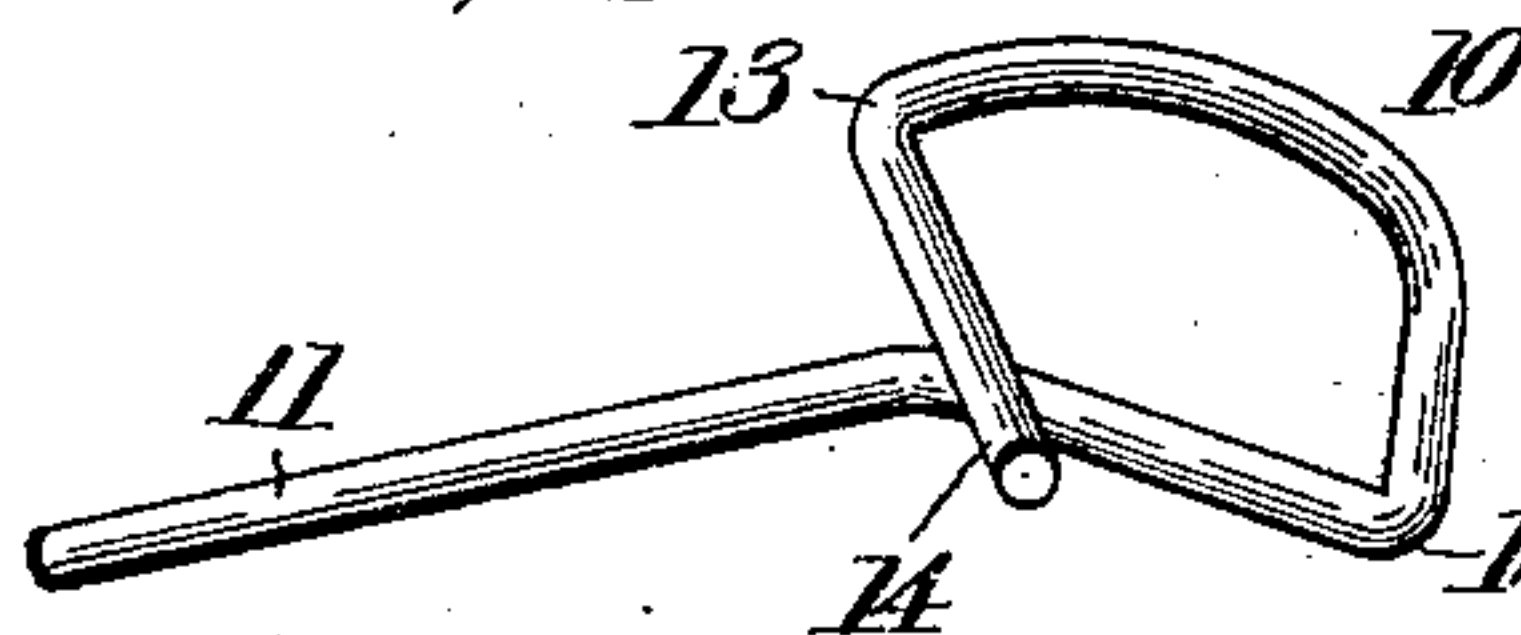


Fig. 4.



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# UNITED STATES PATENT OFFICE.

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## BUNDLE-TYING DEVICE.

No. 910,597.

Specification of Letters Patent.

Patented Jan. 26, 1909.

Application filed January 2, 1908. Serial No. 408,988.

*To all whom it may concern:*

Be it known that I, FLORENCE E. SPEARS, a citizen of the United States, residing at Pell City, in the county of St. Clair and State of Alabama, have invented certain new and useful Improvements in Bundle-Tying Devices, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to a parcel or bundle tying device, and has for its object the provision of means for facilitating the holding together or tying of a plurality of packages, envelopes, sheets, and the like.

15 Another object of the invention is the construction of a tying device, which can be used a number of times, and which can be quickly attached or detached, without injuring the object or objects upon which it is mounted, and also without materially injuring the device itself.

20 A further object of the invention is the construction of a tying device, which comprises a minimum number of parts, which is durable and efficient in operation, and which can be constructed or manufactured very cheaply.

With these and other objects in view, the invention consists of certain novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

30 In the drawings: Figure 1 is a perspective view of my tying device, showing the same mounted upon a plurality of sheets or objects for holding or tying the same together. Fig. 2 is a plan view of the device constructed in accordance with the present invention. Fig. 3 is a plan view of another embodiment of my invention. Fig. 4 is a view of a portion of the device.

45 Referring to the drawings by numerals, 1 designates a parcel or package composed of a plurality of sheets or objects or members, secured or tied together by a device constructed in accordance with the present invention. My tying device comprises a primary member 2, an auxiliary, outer member or section 3, and an intermediate, flexible inner member or section 4.

50 The primary, outer member or section 2 comprises a body portion 5, preferably, formed from a single-strip or piece of wire, and provided with integral loops 6 intermediate its ends; said loops are formed from a single piece and twisted at their base and extend

tend laterally only from one side of the portion 5. At the inner end of the body portion 5 is formed an integral loop 6, and one end of the flexible intermediate portion 4 is connected thereto, as at 7. The opposite end of the body portion 5 terminates in a hook 8; the hook 8 has its outer end 9, preferably, spaced from the body 5, so that the same can be easily hooked into the central holding device 10 of my invention, which device 10 is formed upon the outer end of the auxiliary member 3. The loop 6 constitutes a hook for holding the inner end of the intermediate member or cord 4, and, therefore, it would be seen that I have provided parallel hooks or loops 6 and 8 at the ends of the portion 5.

70 The auxiliary member 3 is, preferably, formed from a single strip or piece of wire, and comprises a body portion 11, which body portion is provided, at its inner end, with a loop 6<sup>a</sup> similarly constructed to eye 6, and to which loop 6<sup>a</sup>, one end of the intermediate flexible member or cord 4 is fastened, as at 7'. The central or holding device 10 is formed integral with the body portion 11, and comprises a body having two integral V-shaped portions 12 and 13. Each of the sides of the V-shaped portions is positioned at an angle to the body portion 11, for the purpose hereinafter described. The inner side 14 of the V-shaped portion 13 is of greater length than the outer side of the same portion, and is extended across the outer end of the body portion 11, whereby the extended end constitutes a guide-finger for directing the intermediate portion of the tying device into the V-shaped portions, when the device is wrapped around a parcel or bundle, as in Fig. 1. It is to be noted that in Figs. 1 and 2 I have shown a bundle tying device made in sections which is assembled upon the package or bundle or a plurality of sheets or objects by properly placing the auxiliary portion 3 upon one side of the bundle; and then bringing the intermediate or cord-portion 4 under or around the bundle, as indicated by dotted line 15, Fig. 1, and then inserting or hooking the cord or flexible or intermediate portion 4 under the finger 14, causing the cord to be seated in the V-shaped portion 13, and, subsequently, passing the cord around the bundle, as indicated by dotted line 16, and placing the auxiliary portion 2 substantially parallel with the upper face of the bundle or that face carrying the auxiliary portion 3.



If the bundle is of such size as to only permit the hook 8 to be hooked under finger 14, and rest in the V-shaped portion 12, this can be easily accomplished, but if the bundle is smaller, or is of such size as to permit one of the loops 6 to be hooked into the central holding device 10, this can be accomplished by passing the finger 14 through, or passing one of the loops 6 over the finger for placing the particular loop or eyelet in the V-shaped portion 12. It is to be noted that the V-shaped portions securely retain the engaging portions of the tying device, which are placed in the central holding device, in the tied position, Fig. 1, and will not permit the same to be disassembled, under normal conditions, although the operator can easily detach hook 8 or the loop 6 for removing the tying device from off the bundle or package.

In the embodiment depicted in Fig. 3, the tying device is, preferably, formed from a single-piece or strip of resilient, metallic material, as for instance, wire, and is of substantially the same structure as the device depicted in Fig. 2, except that in this embodiment, I do not employ any intermediate portion, as the cord 4, but form the central holding-device 10 directly upon the body portion 11', at one end; at the opposite end of the body portion 11' is formed a hook 8' similar to the hook 8 in the embodiment depicted in Figs. 1 and 2. This device (Fig. 3) is also provided with the loops 6', the same as the loops 6. When it is desired to fasten the single-piece tying device upon a plurality of articles or sheets, etc., it is only necessary to lay the holding device 10 upon one side of the package or parcel, and wrap the body 11 transversely around the package on dotted line 15, Fig. 1, and then hook a portion of the body 11' into the central holding device, and pass the body portion longitudinally around the package, on dotted line 16, and subsequently hook either one of the loops 6' or the hook 8' into the central holding-device 10, in the same way, as when attaching to the central holding device, hereinbefore described.

The central holding-device 10 prevents the angularly disposed portions of my device from slipping upon the package, and owing to the peculiar structure of said central holding-device, the tying device can be quickly assembled or disassembled from the package, without injuring the same, thereby permitting the device to be used a great number of times.

What I claim is:

1. A device of the character described, comprising a pair of outer sections and an intermediate section connecting said outer sections, one of said outer sections provided with a hook and the other outer section pro-

vided with a central holding-device, said device provided with a body portion and with a plurality of V-shaped portions, each of the sides of the V-shaped portions positioned at an angle to the body portion, one of said V-shaped portions provided with an outer side extending across the outer end of the body portion and constituting a guide-finger for facilitating the insertion of the hooked outer section into said holding device.

2. A device of the character described, comprising a body portion formed from flexible material and provided with attaching means at one end and with a central holding-device at its opposite end, said central-holding device provided with receiving portions, each of the sides of the receiving portions positioned at an angle to said body portion, each of the sides of receiving-portion positioned at an angle to each other and one of the sides of one of the receiving portions extending across the longitudinal axis of the body portion, and said extended side constituting a guide-portion or finger.

3. A device of the character described, comprising a body portion formed of outer and inner sections, the outer sections formed of wire and the inner section formed of cord or like member, each of the outer sections provided, at its inner end, with a loop, one of said outer members provided at its outer end with a hook, the other outer member provided with a central-holding device, and said holding-device provided with V-shaped portions, and one of the sides of one of the V-shaped portions being left free for permitting the cord to be inserted into the holding device.

4. A device of the character described, comprising a body portion composed of a series of sections, a plurality of said sections formed of wire, and one of said series of sections formed of cord or rope, one of said wire-sections provided, at its outer end, with a hook, the other wire-section provided at its outer end with a plurality of angle-portions, and one of said angle portions having a portion left free and constituting guiding means.

5. A device of the character described, comprising yieldable sections, the outer end of one of the sections provided with fastening means and the outer end of another section provided with a plurality of angle portions disposed transversely of said section, and one of the angle portions provided with a guide-finger or extension.

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

FLORENCE E. SPEARS.

Witnesses:

M. O. FORMBY,  
O. E. STEWART.