

No. 671,110.

Patented Apr. 2, 1901.

M. S. FIELD.  
PACKAGE TIE.

(Application filed Jan. 23, 1901.)

(No Model.)

Fig. 1.

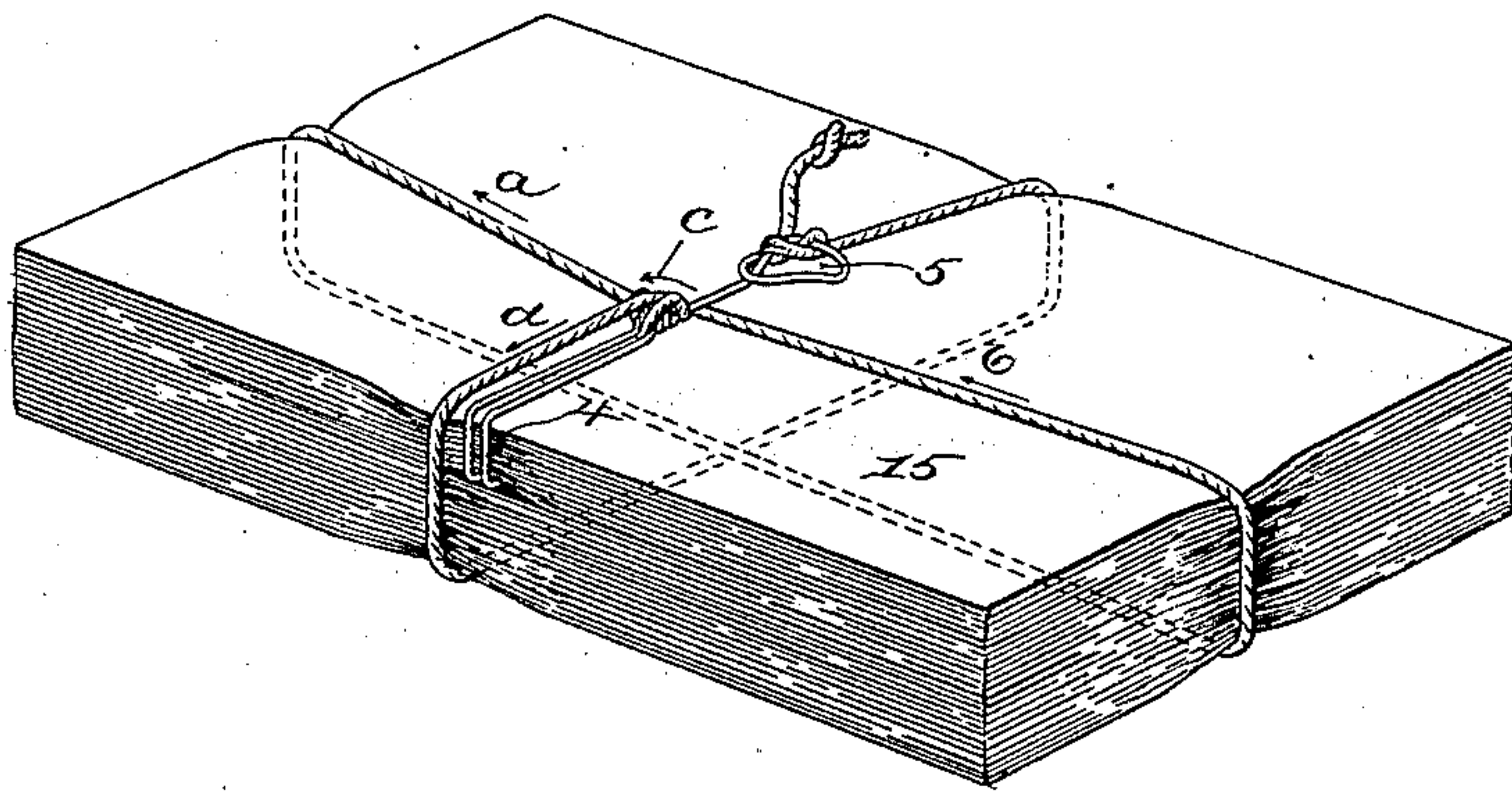


Fig. 2.

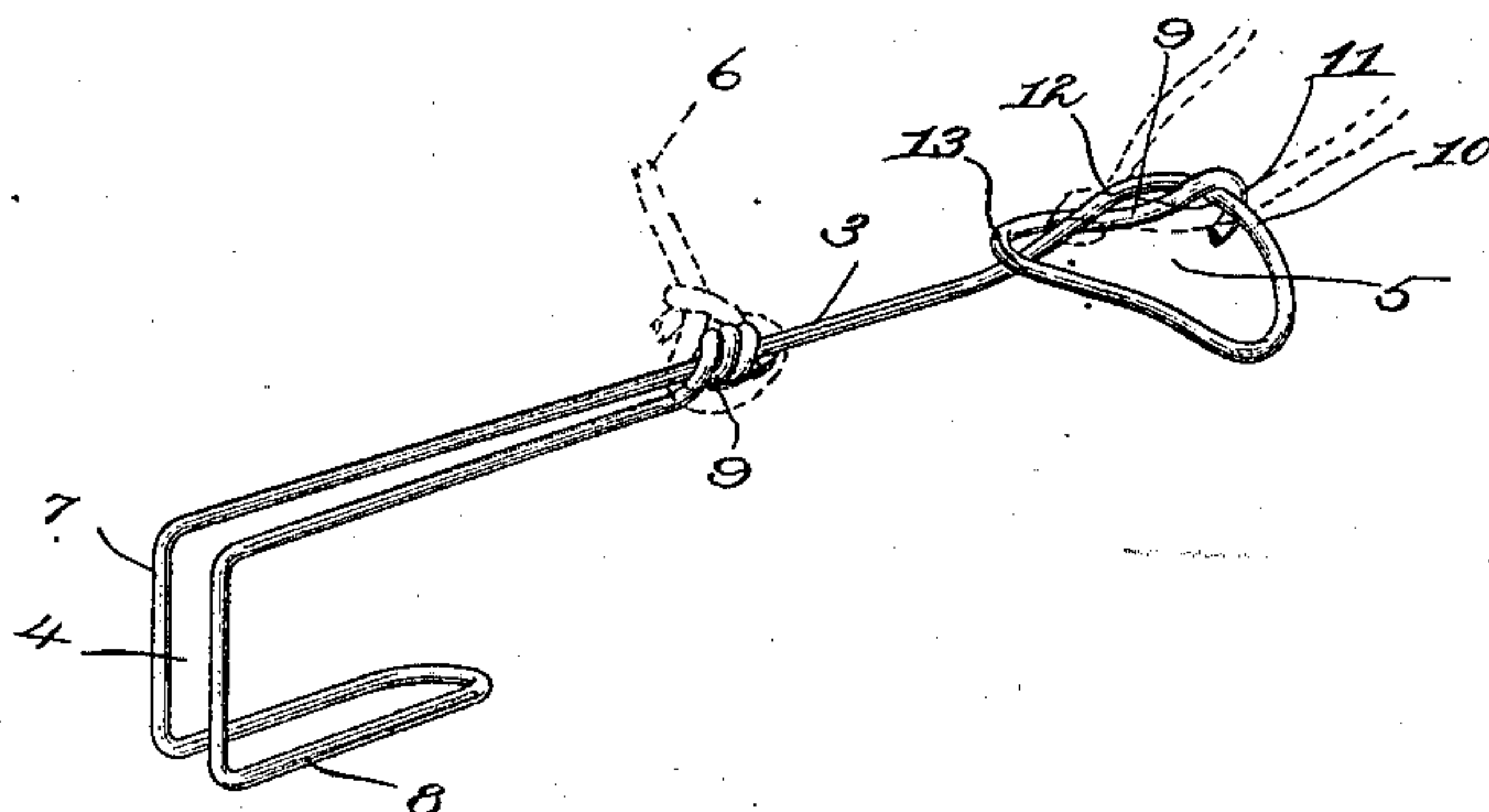


Fig. 3.

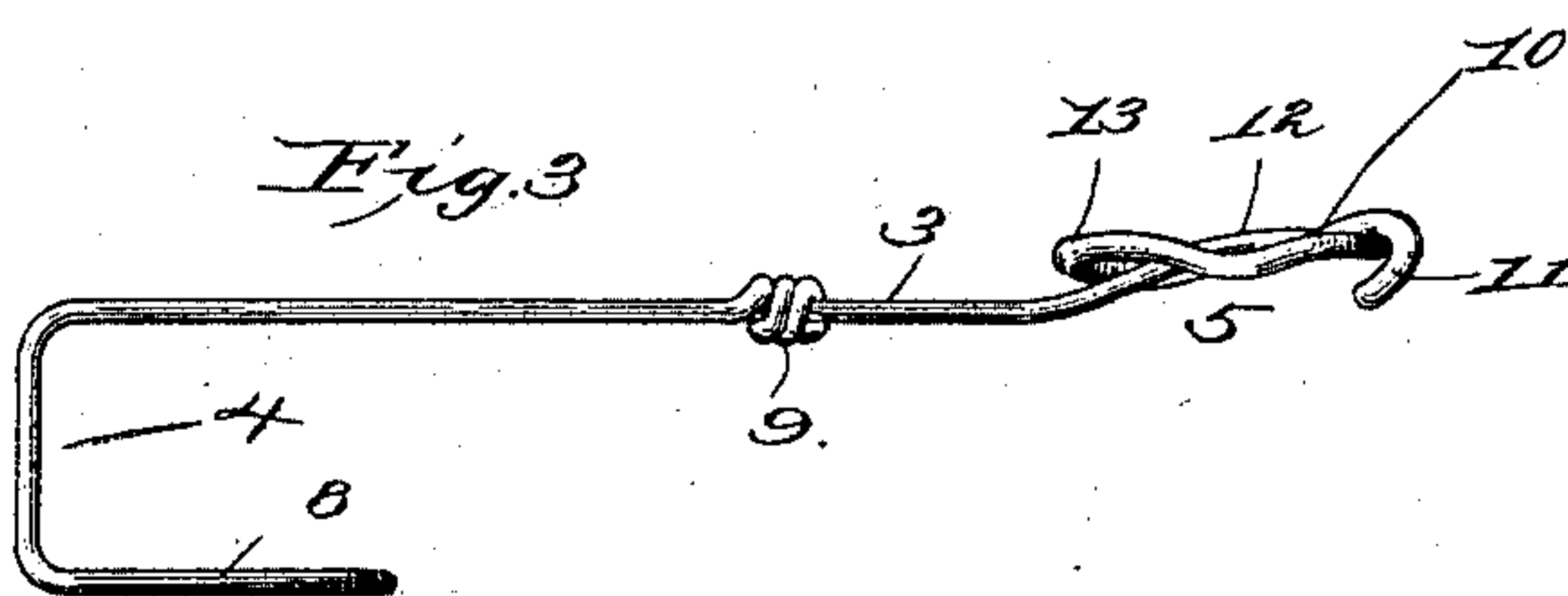
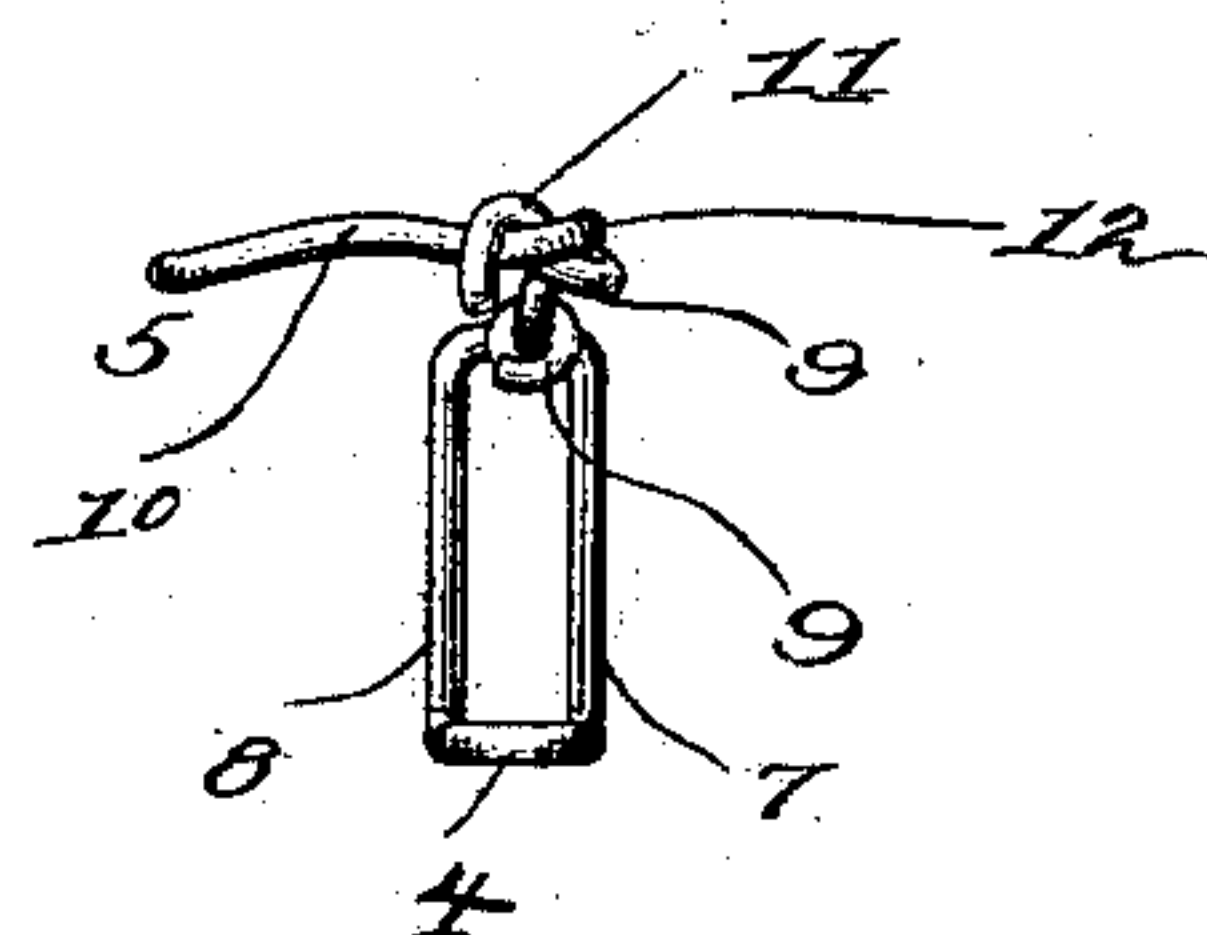


Fig. 4.



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# UNITED STATES PATENT OFFICE.

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## PACKAGE-TIE.

SPECIFICATION forming part of Letters Patent No. 671,110, dated April 2, 1901.

Application filed January 23, 1901. Serial No. 44,381. (No model.)

*To all whom it may concern:*

Be it known that I, MARCELLUS S. FIELD, a citizen of the United States, residing at Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Package-Ties, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

10 This invention has for its object the production of a novel tie which is especially adapted to be used in connection with post-office work for tying up packages of letters, although it will be obvious that the invention  
15 is not limited to such use, but may be used in tying any package of any description.

In the present system of handling mail the letters for different destinations after having been sorted out are tied up into bundles,  
20 and when they arrive at the destination the cord or twine with which they have been tied is generally cut and thrown away. This entails considerable expense; and it is the object of my invention to provide a tie for packages of letters which can be used repeatedly,  
25 and by means of which the package of letters can be more quickly tied up than when ordinary twine or cord is used and which when tied will be absolutely secure.

30 To this end my invention comprises a package-tie consisting of a body portion having at one end a cord-clamp made by forming a loop in the wire and passing the end of the wire through the loop adjacent to one side thereof,  
35 as hereinafter described, and preferably I provide the opposite end of the body portion of the tie with a suitable hook which is adapted to engage one side of the package, the said tie being combined with a cord secured to the  
40 body portion thereof intermediate its ends.

In the use of the device the body of the tie is placed across the package of letters, and if the body has a hook it will be inserted between the letters. The tie will be held in  
45 place by the thumb of the operator, and the cord attached thereto will be passed around the package first at right angles to the body of the tie and then parallel thereto, the end of the cord after having been thus passed  
50 around the package being drawn into the

cord-clamp at the end of the body. The hook on the body serves to prevent the body from being displaced while the cord is being drawn tightly into the cord-clamp.

Referring to the drawings, Figure 1 shows 55 a perspective view of a package tied up with my improved tie. Fig. 2 is a perspective view of the metallic portion of the tie. Fig. 3 shows a side elevation thereof. Fig. 4 is an  
60 end elevation.

My improved package-tie is preferably made of wire and comprises a body portion having a cord-clamp at one end thereof made by forming a loop in the wire and then passing the end of the wire through the loop adjacent one side thereof, the end of the wire thus being partially twisted about the side of the loop, combined with a suitable cord secured to the body portion intermediate its  
65 ends, and preferably I will provide the opposite end of the body portion with a hook which has its neck portion formed with two parallel branches, the hook being adapted to engage the edge of the package and operating to firmly hold the tie in place. 75

In using my device I may, if desired, lay the cord as it is wrapped around the package between the branches of the neck of the hook, whereby the hook is positively held in place and cannot be disengaged from the edge of  
80 the package even though the package is roughly handled.

The tie is shown as composed of the body portion 3, it preferably having the hook 4 at one end thereof and the cord-clamp 5 at the  
85 other end thereof, a piece of cord or twine 6 being attached to the body 3 approximately centrally thereof, which cord 6 is passed around the package in the usual way to tie the same up. 90

One convenient way of making my package-tie is illustrated in the drawings, wherein it comprises a single piece of wire having the straight body portion 3 and bent at one end to form one portion 7 of the double hook 4, 95 the wire being bent back upon itself, as at 8, to form the other branch or portion of the hook 4 and having its end secured to the body, as at 9, intermediate its ends. It will thus be seen that the hook 4 has its neck 100



formed with two parallel branches, and in the operation of the device the cord as it is wrapped around the hook may, if desired, be laid between the branches of the said hook to positively hold the hook in its engagement with the envelops, as will be hereinafter described. The other end of the body 4 is bent to form a cord-clamp 5, and, as illustrated, this is made by bending the wire to form a suitable loop and then passing the free end 9 of the wire through the loop and bending the same about the portion 10 thereof, as at 11. The end 9 of the wire is in close proximity to the portion 12 of the loop and is partially twisted about the same, and as the wire is of spring metal it will be seen that by passing the cord under the upwardly-turned portion 13 of the loop it will be drawn under the loop at this point and will be passed down over the portion 12 of the loop and be clamped between the same and the end 9 of the wire, as shown in dotted lines in Fig. 2. The portion 13 of the loop is bent upwardly slightly in order that the cord may be readily guided between the same and the body of the tie, and the portion 10 of the loop, about which the end of the wire is bent, as at 11, is also turned upwardly slightly, as seen in Figs. 2 and 3, and the curved portion 11 of the wire, together with the upturned portion 10, serves to guide the cord underneath the loop, as will be presently described.

In using my improved tie for tying up packages, the operator will preferably hold the package by the corner (designated by 15 in Fig. 1) with his left hand, while with his right hand he will throw the tie across the top of the package, and when the tie has a hook 4 he will draw the said hook 4 into the envelops at the edge of the package, as seen in Fig. 1. Then placing his thumb upon the body portion of the tie he will wrap the cord about the package at right angles to the body 3 of the tie, the cord extending from the body in the direction of the arrow *a* and passing underneath the package and around the same to the body in the direction of the arrow *b*. The cord is then passed underneath the loop 5, the guide portion 11 serving to help direct the cord underneath the said loop, and the cord is then bent around parallel to the body of the tie, as at *c*, and passed around the package in the direction of the arrow *d*, and, if desired, the cord may be passed twice around the package in this direction. The end of the cord is then carried under the raised portion 13 of the loop and drawn down between the portions 9 and 12 thereof, thus securely clamping the end of the cord, as seen in Fig. 1 and in dotted lines in Fig. 2. During the strain upon the cord in drawing the same down into the cord-clamp the hook 4 operates to prevent the tie from being pulled over to one side of the package of envelops, as is common in ties as heretofore

made. The hook, however, is not absolutely essential, for a tie comprising merely a body portion provided at one end with a cord-clamp, such as above described, will operate to hold the package tightly and permanently tied, and I may therefore, if desired, omit the hook. I prefer, however, to use the hook, as it materially assists in holding the tie in place, and by making the hook as shown in Fig. 2, with its neck having two parallel branches, the cord as it is wrapped about the package may be laid between the branches of the hook, and thus positively prevent the hook from becoming disengaged from the edge of the package, as might occur should the cord become loosened in any way.

While I have in the above description described the same with special reference to the tying up of packages of letters as required in post-office work, yet I wish it understood that I intend to use my invention in tying any packages, for it is obvious that it is not confined to post-office work.

Various changes may be made in the construction of the device without departing from the spirit of my invention as expressed in the appended claims.

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

1. A package-tie comprising a body portion having a cord-clamp at one end and a hook at the other end, the neck of said hook having two parallel branches, combined with a cord secured to the body portion of the tie at a point intermediate its ends.

2. A package-tie made from wire, said tie having a body portion provided at one end with a cord-clamp formed by making a loop in the wire and passing the end of the wire through the loop, said body being provided with a hook at the other end, said hook having its neck formed with two parallel branches.

3. A package-tie comprising a wire bent to form a body portion, having a hook at one end and a loop at the other end, the end of the wire being inserted through the loop, whereby a cord-clamp is provided.

4. A package-tie comprising a wire bent to form a body portion, having a hook at one end and a loop at the other end, the end of the wire being inserted through the loop to form therewith a cord-clamp, and being bent around one portion thereof to form a cord-guide.

5. A package-tie made from a single wire, bent to form a body having a hook at one end and a cord-clamp at the other, the said clamp comprising a loop in the wire, one end of the wire being passed therethrough and bent around the outside portion thereof, that portion of the loop adjacent the body being bent upwardly.

6. A package-tie made from a single piece of wire bent to form a body having a cord-



clamp at one end, the said clamp comprising a loop in the wire, and one end of the wire being passed through the loop and bent around the outside portion thereof to form a cord-  
5 guide.

7. A package-tie made from a single piece of wire, said tie having a body portion and a loop at one end, the end of the wire being inserted through the loop adjacent to one side

thereof, and partially twisted about said side 10 of the loop, whereby a cord-clamp is provided.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MARCELLUS S. FIELD.

Witnesses:

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