

Jan. 7, 1930.

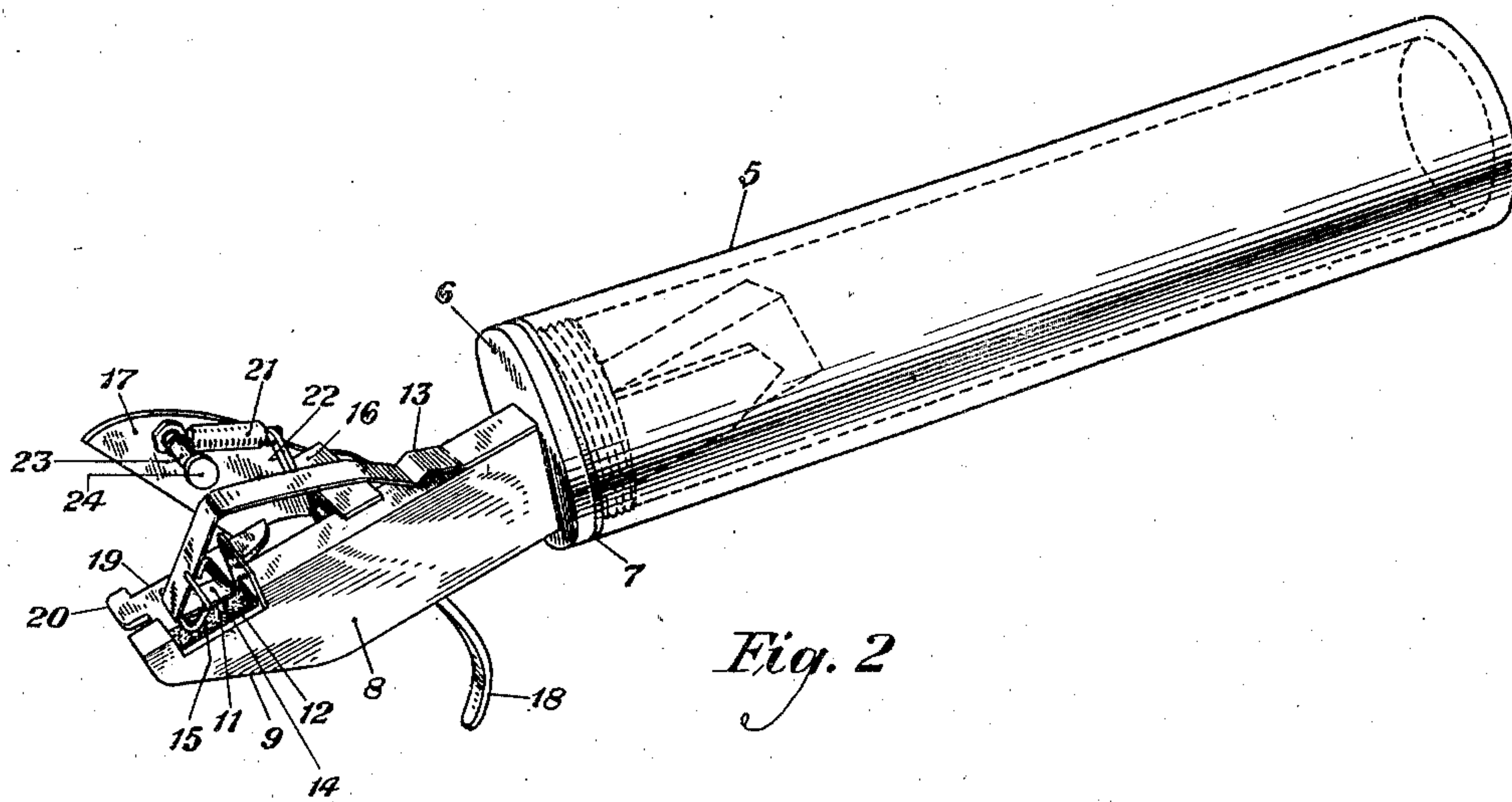
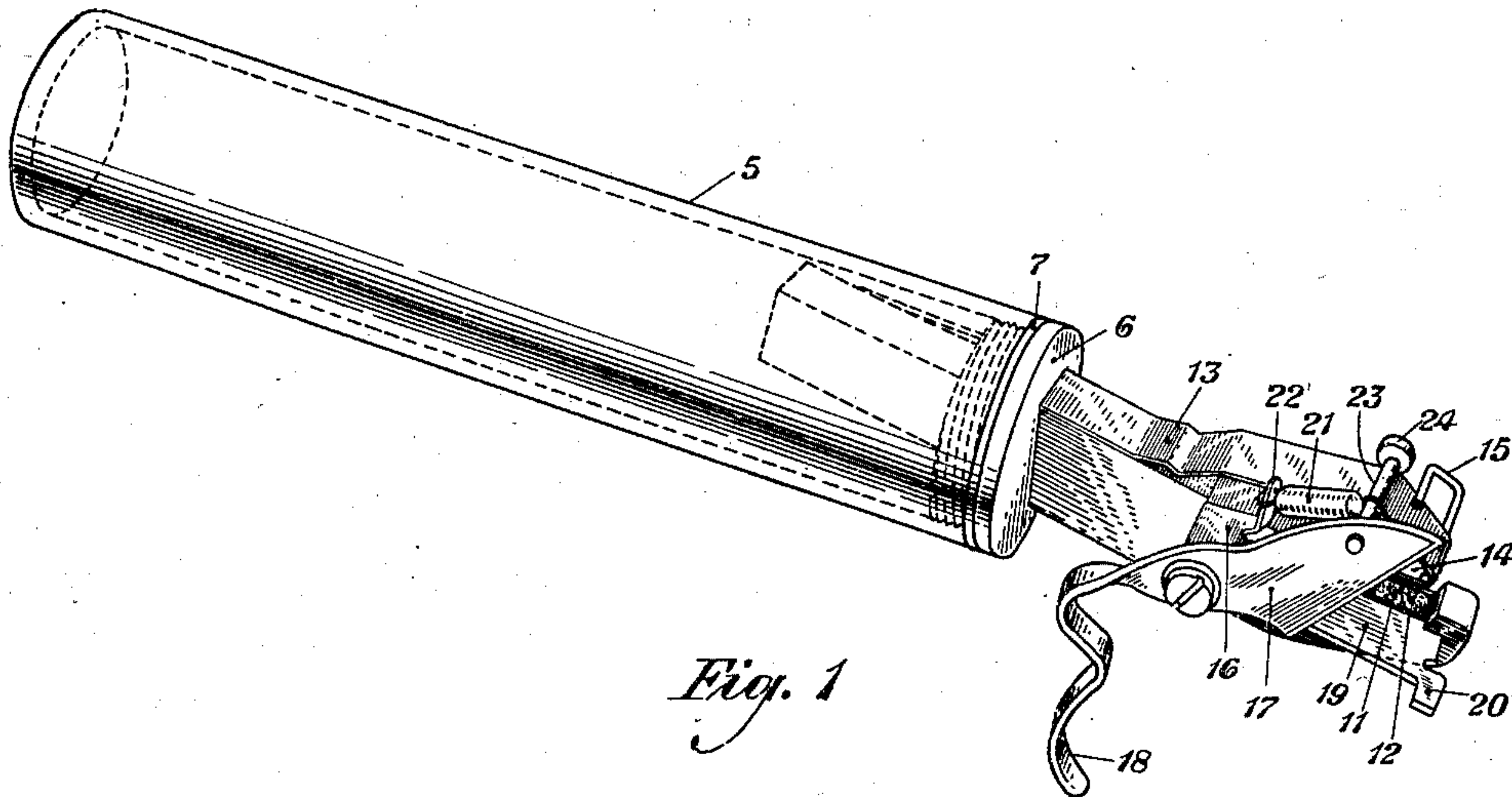
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1,742,293

TAPE CUTTING AND PASTING DEVICE

Filed Sept. 20, 1928

3 Sheets-Sheet 1



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TAPE CUTTING AND PASTING DEVICE

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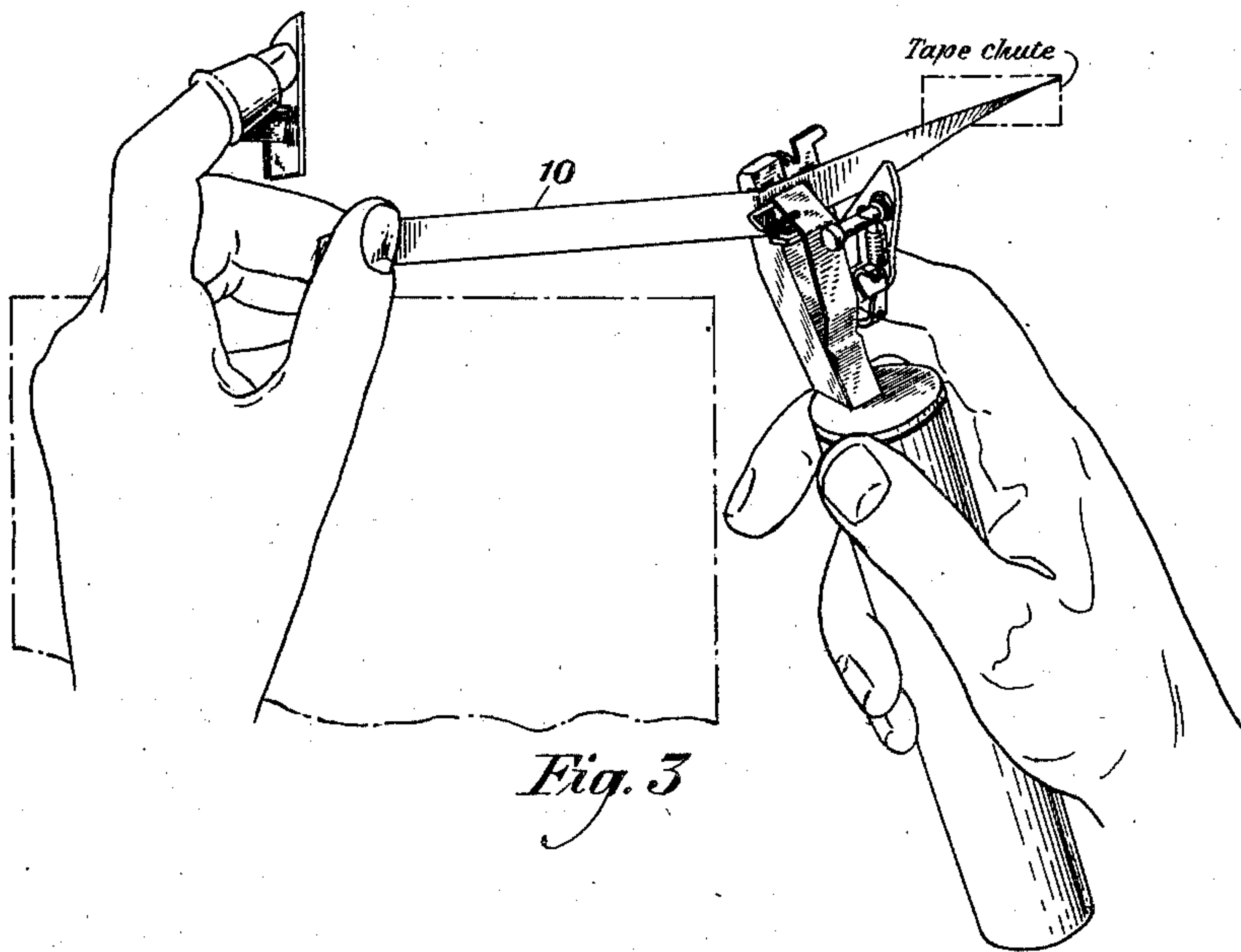


Fig. 3

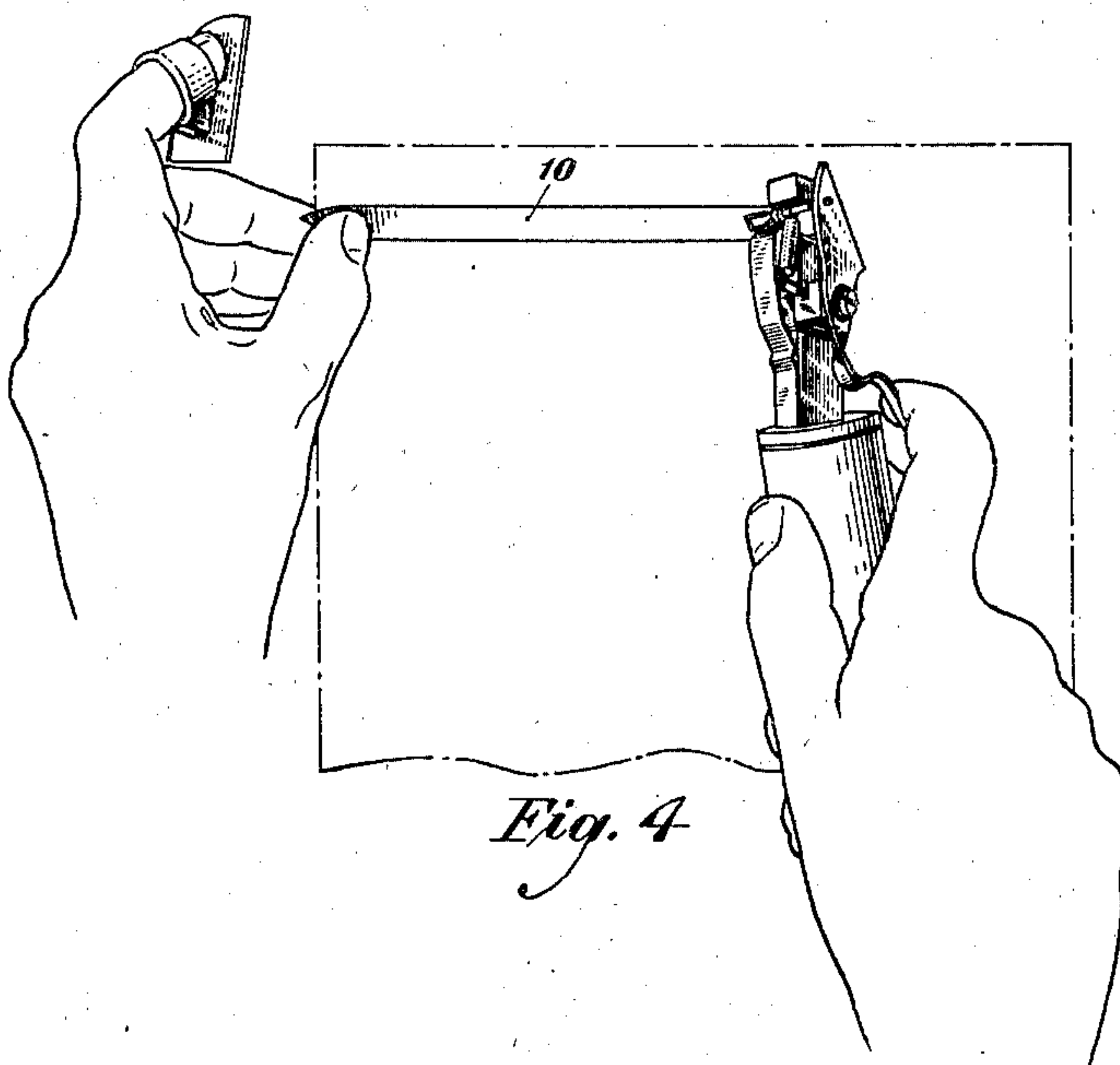


Fig. 4

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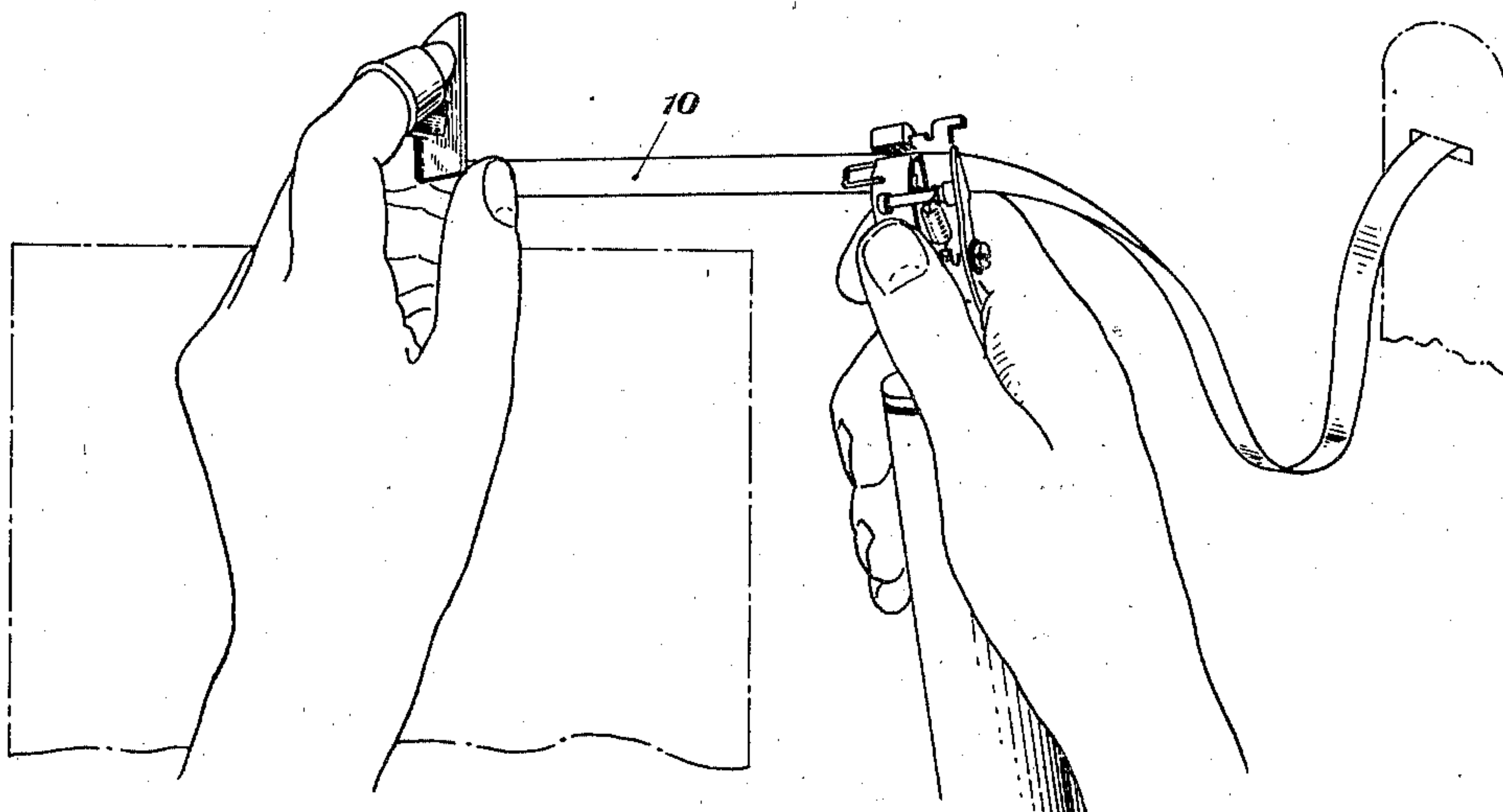


Fig. 5

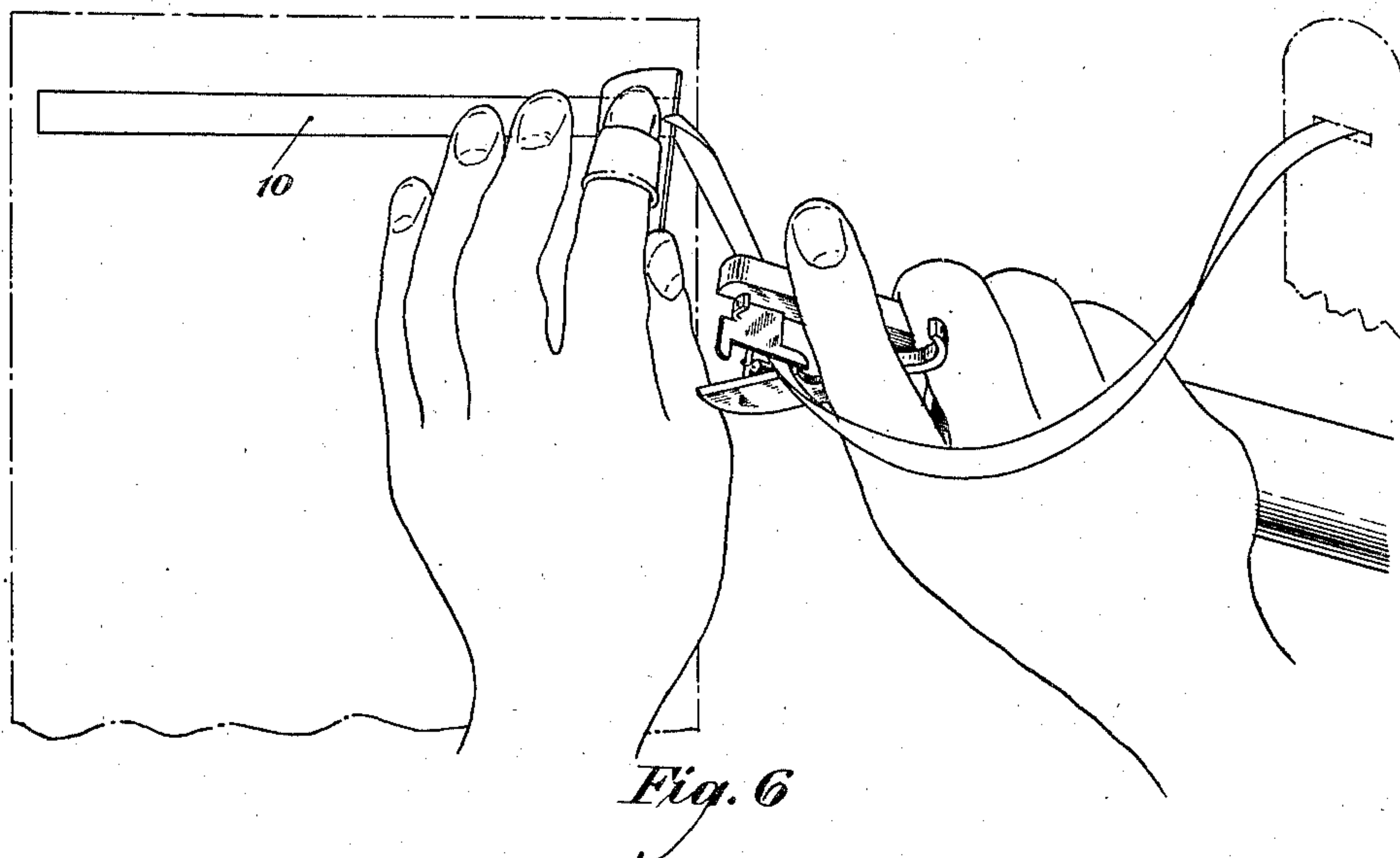


Fig. 6

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TAPE CUTTING AND PASTING DEVICE

Application filed September 20, 1928. Serial No. 307,207.

In certain printing telegraph systems, received messages are printed on a tape and fed from a roll associated with the machine which performs the printing operation. The message is printed on the tape as it is advanced through the printer, and said tape is cut in strips of suitable lengths upon leaving the printer. One side of the tape has a gummed surface, and by moistening this surface and applying pressure to its opposite side, the tape may be caused to adhere to any suitable mounting surface. The severed strips of tape are thus mounted one beneath the other upon a receiving blank, for instance, in the form of a telegram, and in such form may be more easily read and filed. In brokers' and other service in which tape printers are used, it is of utmost importance that the message be made available in as short a time as possible after coming in over the wire. It is therefore desirable that the tape be severed as close as possible to the printing point and that such severed tape be mounted in message form as expeditiously as possible.

In accordance with one of the objects of the present invention, there is provided a device which will sever strips of tape and apply moisture and pressure to such strips to cause their adhesion to a supporting surface.

Another object consists in the provision of a device of this character which is simple and comparatively inexpensive.

A further object consists in providing a device of this type which is light in weight and readily manipulated without lost motion to accelerate the speed of operations of cutting and pasting strips of printer tape upon a supporting surface.

These and further objects will be apparent from the following description, when considered in connection with the accompanying drawings, in which one embodiment of the invention is illustrated.

In the drawings, in which like characters of reference designate like parts throughout, Figure 1 is a perspective view of one side of the instrument; Fig. 2 is a like view of the opposite side of said instrument; Figs. 3 and 4 show the steps involved in one operation of the improved device; and Figs. 5 and 6 show

the steps involved in an alternative operation of said device. Fig. 3 shows the tape being withdrawn from a printer apparatus and moisture being applied to the gummed surface of the tape; Fig. 4 shows the method of applying the tape to a supporting surface; Fig. 5 illustrates the improved instrument moving along the tape to moisten its gummed surface in accordance with the alternative operation; Fig. 6 illustrates a strip of tape applied to its supporting surface with the instrument clamped to the loose end of the tape preparatory to the severance of the end of the applied strip of tape.

Referring to the drawing, the numeral 5 indicates a hollow cylindrical casing which forms a container for liquid and also provides a handle which may be grasped to manipulate the improved device. One end of the casing 5 is provided with interior threads into which a plug 6 is screwed, and a gasket 7 may be positioned intermediate the casing and plug to form a water-tight connection between these elements. A duct or channel member 8, shown in the present instance of substantially rectangular form, extends from the plug 6 in a slightly declined direction from the casing 5. The bottom surface of the member 8 is inclined toward its outer end, as shown by the reference 9, so that a somewhat blunt or tapered end is formed thereat. The inclined portion 9 provides a surface which may be used in connection with the tape 10 to smooth it out upon the supporting surface to which it is applied, while the declined position of the member 8 permits such operation to be performed without any undue elevation of the arm.

A wick or moisture-applicator 11, which may be of felt or other absorbent material, is carried in the channel member 8. An exposed end of the moisture-applicator 11 extends upwardly through a cutaway or groove portion 12 formed in the upper surface of the channel member 8 near the outer end thereof. The applicator lies within the channel member, and extends therefrom through an aperture formed in the plug 6 into the chamber of the cylindrical casing 5. The end of the applicator 11 which extends within the casing

5 is immersed in water carried in such casing, and is saturated thereby to provide moisture for the opposite or exposed end of the applicator which lies in the grooved portion 12. This moistened exposed end is adapted to be applied to the gummed side of the tape 10, as will presently appear.

A flat resilient member 13 is carried on the upper side of the channel member 8, and is provided with an inclined cam surface which connects with the pressure foot member 14. The member 14 is adapted, when depressed, to register in the groove 12 and apply pressure to the tape 10 passing through said groove. This causes the adhesive side of the tape to bear against the end of the applicator 11 seated in the groove so that moisture is applied thereto. A clip 15 is affixed to the member 14 and serves as it is passed over the tape to position it upon a supporting surface.

An extension 16 is carried on one side of the channel member 8, and a cutter 17 is journaled therein in any suitable manner. The cutter is provided with a blade and a trigger member 18. The trigger may be operated by the forefinger at the same time the handle of the improved device is grasped by the hand. A plate 19 extending from one side of the channel member 8 forms a flat supporting surface over which the tape 10 passes. This plate is provided with a straight edge with which the blade of the cutter 17 cooperates to form a cutting edge for severing a length of tape. The plate 19 is provided with a lug 20 which limits the downward travel of the cutter blade. The cutter member 17 may be restored to its normal position by means of a spring 21 which has one of its ends secured to a bracket 22 carried by the extension 16, and the other end of the spring 21 may be secured to a pin 23 carried by the cutter member 17. The outer end of the pin 23 is provided with a circular button 24 which forms a mechanical connection between the clamp or pressure member 14 and the blade member 17. The button 24 engages and travels downward on the inclined or cam surface of the resilient member 13 upon the operation of the trigger 18. The button 24 applies pressure to the member 14 and causes it to hold the tape 10 seated on the moistened applicator 11, while the cutter blade member performs a simultaneous operation of severing a strip of tape.

In the operation of the improved instrument, the tape having the printed message on its upper side is withdrawn from the printer apparatus and passed through the groove in which the moistened applicator is positioned, as shown in Fig. 3. The applicator applies moisture to the gummed surface of a tape as it passes thereover. The improved device is passed along the tape until a point is reached where length of such tape corresponds approximately to the width of the supporting

surface upon which the tape is to be mounted, or in the case of short messages to the end of the message. The tape is severed at this point, and is applied to the receiving blank or supporting surface. This operation is more clearly indicated in Fig. 4, which shows one end of the tape held upon the left side of the supporting surface by one hand, while the improved instrument held by the other hand has been caused to travel from a left to a right position over the surface of the applied tape with its tapered side in engagement therewith. The tapered side of the device presses the tape evenly on the receiving blank, and causes its adhesion thereto. As an alternative method of smoothing out the tape on a supporting surface, a thimble attached to the forefinger of the left hand may be used.

In the alternative operation of the improved device, as indicated in Figs. 5 and 6, the end of the tape is shown in the first mentioned figure as being held with the left hand while the right hand passes the improved device from left to right along the tape. The gummed side of the tape is pressed against the moistened applicator, and the thumb of the right hand applies pressure to the spring member to clamp the tape between it and the applicator. The gummed side of the tape is thus caused to be moistened as it is passed over the applicator, and the tape is then positioned on a receiving blank.

In Fig. 6, a thimble, which is worn on the forefinger of the left hand, is passed over the positioned tape from left to right. This thimble has a flat surface which when applied to the positioned tape causes it to adhere to the receiving blank in a smooth and even manner. When the thimble has reached an extreme right position, and while the tape is held in clamped position, the device is turned outwardly to cause the tape to be severed by cutter edge of the thimble member.

By watching the passage of the tape through the improved device, it is easy to sever such tape between two words by the method shown in Figs. 3 and 4 or the alternative method shown in Figs. 5 and 6. The strip of severed tape may be placed on a supporting blank and smoothed out thereon. A new line of tape may be then started from the left side of the supporting blank, and so on, until the entire message is positioned upon the supporting blank.

What is claimed is:

1. The combination of a casing, a channel member extending therefrom for receiving and guiding tape to be moistened, a clamp member carried by the channel member, and a cutter journaled on the channel member for operating said clamp to hold the tape and for simultaneously severing such tape.

2. The combination of a casing, a channel member extending therefrom, a groove in the channel member for receiving and guiding

tape to be moistened, a clamp carried by the channel member and registering in said groove for applying pressure to the tape in its passage through said groove, and a cutter journaled on the channel member for operating said clamp to hold the tape and for simultaneously severing such tape.

3. The combination of a casing forming a handle and a container for liquid, a channel member extending therefrom, a groove in the channel member for receiving and guiding tape to be moistened, a strip of absorbent material seated in said groove and extending through the channel member into the container portion of said casing, a clamp carried by the channel member and registering in the groove for pressing the tape against the absorbent material and causing its gummed side to be moistened in its passage through said groove, and a cutter journaled on the channel member for operating said clamp to hold the tape and for simultaneously severing such tape.

4. In a cutting and pasting device for tapes and the like, the combination of a casing forming a handle and a container for liquid, a channel member extending from the casing and having a groove for receiving and guiding tape to be moistened, a strip of absorbent material having its end seated in said groove and extending through the channel member into the container to apply moisture to the gummed side of a tape passing through the groove, a clamp member carried by the channel member and adapted to register in said groove, said clamp member being adapted in one operation to hold the gummed side of the tape against the moistened absorbent material in the passage of the tape through said groove, and a cutter journaled on the channel member for severing the tape and simultaneously actuating the clamp member to hold the tape during another operation.

5. The combination of a casing, a channel member extending therefrom for receiving and guiding tape to be moistened, a clamp member carried by the channel member, a cutter journaled on the channel member for severing the tape, and means associated with the cutter for operating said clamp to simultaneously hold the tape.

6. The combination of a casing, a channel member extending therefrom for receiving and guiding tape to be moistened, a clamp member carried by the channel member, a cutter journaled on the channel member for severing the tape, and a mechanical connection between said cutter and said clamp whereby the clamp is operated simultaneously with the cutter.

7. The combination of a casing, a channel member extending therefrom for receiving and guiding tape to be moistened, a clamp member carried by the channel member, and

a cutter journaled on the channel member for severing the tape, and a mechanical connection between said cutter and said clamp whereby the clamp is operated simultaneously with the cutter, said clamp being operable manually independently of said cutter.

8. The combination of a casing forming a handle and a container for liquid, a channel member extending in a declined position therefrom, a groove in the channel member for receiving and guiding tape to be moistened, a strip of absorbent material seated in said groove and extending through the channel member into the container portion of said casing, a clamp carried by the channel member and registering in the groove for pressing the tape against the absorbent material and causing its gummed side to be moistened in its passage through said groove, a cutter journaled on the channel member for operating said clamp to hold the tape and simultaneously sever such tape, and an inclined surface on said channel member for smoothing a severed strip of tape upon the supporting surface to which it is applied.

9. In a cutting and pasting device for tapes and the like, the combination of a casing forming a handle and a container for liquid, a channel member extending from the casing in a declined position and having a groove for receiving and guiding tape to be moistened, a strip of absorbent material having its end seated in said groove and extending through the channel member into the container to apply moisture to the gummed side of a tape passing through the groove, a clamp member carried by the channel member and adapted to register in said groove, said clamp member being adapted in one operation to hold the gummed side of the tape against the moistened absorbent material in the passage of the tape through said groove, a cutter journaled on the channel member for severing the tape and simultaneously actuating the clamp member to hold the tape during such operation, and an inclined portion on the channel member for smoothing out a severed strip of tape upon a supporting surface to which it is applied.

10. The combination of a casing forming a handle and a container for liquid adapted to be grasped by the hand, a channel member extending from said casing for receiving and guiding a tape to be moistened, a strip of absorbent material extending through the channel member into the container portion of said casing, a cutter journaled on said channel member, and a finger member extending downwardly from said cutter in such position that the cutter may be readily manipulated by the forefinger in the grasping position of the hand to sever said tape.

11. The combination of a casing forming a handle and a container for liquid adapted to be grasped by the hand, a channel member

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extending from said casing for receiving and guiding a tape to be moistened, a strip of absorbent material extending through the channel member into the container portion of said casing, a clamp carried by a channel member for pressing the tape against the absorbent material and causing it to be moistened in its passage through said channel member, a cutter journaled on said channel member, a finger member extending downwardly from said cutter in such position that the cutter may be readily manipulated by the forefinger in the grasping position of the hand to sever said tape, and a mechanical connection between said cutter and said clamp whereby the clamp may be operated simultaneously with the cutter.

12. The combination of a casing, a channel member extending therefrom for receiving and guiding tape to be moistened, a clamp member carried by the channel member and operable by the thumb, and a cutter journaled on the channel member for operating said clamp by a finger and independently of the thumb to hold the tape and for simultaneously severing such tape.

13. The combination of a casing, a channel member extending therefrom, a groove in the channel member for receiving and guiding tape to be moistened, a thumb operable clamp carried by the channel member and registering in said groove for applying pressure to the tape in its passage through said groove, and a finger operable cutter journaled on the channel member for operating said clamp independently of the thumb to hold the tape and simultaneously sever such tape.

In testimony whereof, we have signed our names to this specification this 18th day of September, 1928.

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BURDETTE S. SWEZEY.