

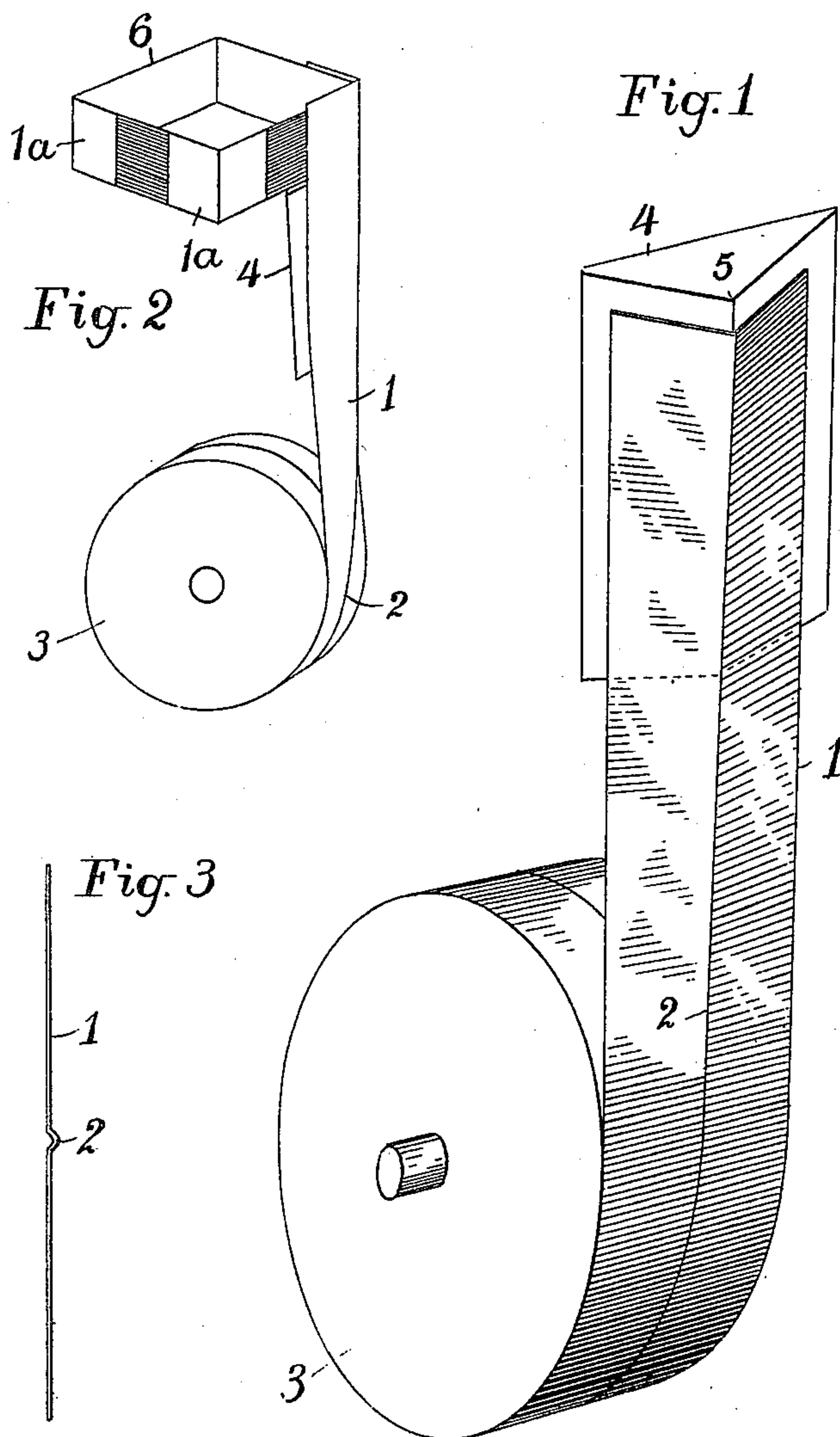
No. 666,261.

Patented Jan. 22, 1901.

**R. BUTTERWORTH.**  
**ADHESIVE STAY TAPE.**

(Application filed Aug. 13, 1900.)

(No Model.)



Witnesses;  
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# UNITED STATES PATENT OFFICE.

ROBERT BUTTERWORTH, OF SOMERVILLE, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO THE REVERSIBLE COLLAR COMPANY, OF BOSTON, MASSACHUSETTS.

## ADHESIVE STAY-TAPE.

SPECIFICATION forming part of Letters Patent No. 666,261, dated January 22, 1901.

Application filed August 13, 1900. Serial No. 26,677. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT BUTTERWORTH, a citizen of the United States, residing at Somerville, in the county of Middlesex and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Adhesive Stay-Tapes, of which the following is a full, clear, and exact description.

The introduction of machinery in the manufacture of paper boxes has made it necessary to use various methods for holding the corners of the box together before the covering-paper is put on. In one of these methods—that to which this invention relates—a narrow strip of paper, cloth, or cloth and paper combined is used for the purpose of thus holding the corners of the boxes, one side of such strip being coated with glue or other adhesive substance. This strip is called “adhesive stay-tape” and is fed automatically by a process which dampens the glue side, attaches the dampened portion to the work, and is cut off at the proper point. The part attached to the box adheres to each side of the corner, and hence forms a right angle. This angle in the stay-tape is formed by the machine just before contact with the work is made, and it is desirable that the apex of the angle should be at or near the center of the tape and parallel to the edges of the tape. In refractory material this correct formation of the angle is sometimes impossible, and in many cases serious loss of time and material has occurred from this cause, the tape instead of being correctly fed gradually veering more and more from the proper line until an insufficient amount of the tape is left at either side of a box-corner to properly hold the same.

The object of my invention is to obviate this defect and to produce a stay-tape that can always be depended upon to bend at the right place and to be accurately guided to the box-corners, thereby rendering even refractory material useful.

My invention for this purpose consists, essentially, in forming a slight depression or groove in the tape along the line where the angle is to be made, and thereby providing a guide adapted for the accurate presentation of the tape.

Referring to the drawings forming part of this specification, Figure 1 is a perspective

view of a coil of my improved stay-tape. Fig. 2 is a similar view, upon a smaller scale, showing the tape being applied to a box-corner. Fig. 3 is a transverse section, upon a greatly-enlarged scale, of the tape with my groove formed therein.

The reference-numeral 1 indicates the stay-tape wound in a coil 3 and having glue or other adhesive substance applied to one face. Longitudinally in this tape, and preferably, although not necessarily, midway between the lateral edges, is a crease or groove 2. This groove need not be deep, but is made sufficiently pronounced to perform the double functions of both insuring the proper line of fold in the tape and accurately guiding the tape to the box-corner. The angular block 4 is illustrated as performing the work of a former, its corner or edge 5 engaging the groove 2 of the tape.

In Fig. 2 the numeral 6 indicates a box in the process of having the stay-tape applied to a corner thereof, two of its corners being represented as already provided with sections 1<sup>a</sup> of the tape.

I have found that in actual use my improved stay-tape works perfectly. It is always guided to the box-corners with absolute accuracy. The bend is uniform, smooth, and invariably in the right place. It makes a perfectly square corner, and the tape is never wrinkled, broken, or otherwise rendered imperfect. Consequently I am enabled to employ for stay-tape any tough or refractory material which may be desired for the secure fastening of the boxes without danger of loss of time or of the materials themselves.

What I claim as my invention, and for which I desire Letters Patent, is as follows, to wit:

As a new article of manufacture, a coil of gummed stay-tape having a longitudinal crease or groove formed therein, substantially as described.

In testimony that I claim the foregoing invention I have hereunto set my hand this 7th day of August, 1900.

ROBERT BUTTERWORTH.

Witnesses:

F. E. CALLER,

A. B. UPHAM.