July 8, 1930. J. M. REIS 1,769,965

LABEL TAPE

Filed May 22, 1928

Fig. 1.



Fig. 2.

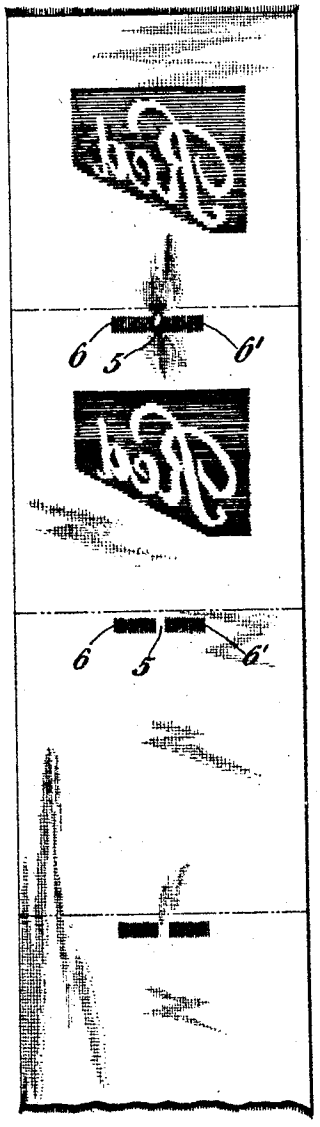


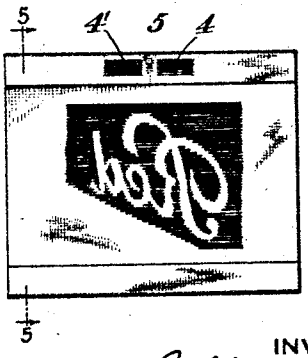
Fig. 3.



Fig. 5.



Fig. 4.



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UNITED STATES PATENT OFFICE

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LABEL TAPE

Application filed May 22, 1928. Serial No. 279,735.

This invention relates to label tape, i. e. labels made in the form of a strip or tape comprising a plurality of continuous, connected labels, which are adapted to be cut from said tape for attachment to garments, or for similar uses, by means of automatic mechanism.

Such tape is adapted to be operated upon by automatic mechanism such for example as described in application of Joseph J. Caprioli, Ser. No. 174,306, filed March 10, 1927, (Patent No. 1,717,917) for machine and method for operating on strip material. In said application there has been described a tape of this character provided with woven raised portions formed intermediate adjacent label sections; such raised portions providing engageable means for an operating finger, which is adapted to move the strip of labels into correct position to be cut, after which cutting the labels are preferably folded over and pressed.

In label strips of this character heretofore known to the art, these raised portions were provided for feeding the tape forward. It is to be understood that such tape is in the form of a woven strip, which is continuous, and in which said raised portions have been formed by adding extra picks to form the said engageable portions. Heretofore such raised portions have been formed on the reverse side of the tape, making it necessary to feed the tape with its face down. In feeding the label strip in this way loose threads are presented on the upper surface of the tape adjacent the woven label representations; which threads are susceptible of being caught in the mechanism, thereby destroying the character of the label representations. In addition to this disadvantage the raised portions are detrimental in folding and pressing the edges of the cut labels, since such raised portions prevent the folds from lying smoothly and closely. Furthermore, such raised portions necessitate the insertion of additional picks, thereby increasing the cost of forming these engageable portions.

An object of this invention is to overcome these disadvantages and to provide an article of this character, which might be manufactured economically and which might be operated successfully and efficiently by mechanism of the character above referred to.

The invention consists broadly in a tape of woven fabric bearing a plurality of individual labels formed in connected series and having improved means positioned intermediate of adjacent labels for engagement by suitable mechanism for feeding said tape into position to be operated upon; the engageable means provided normally lying substantially in the plane of a face of said tape and formed by the threads, from which the body of said tape is fabricated.

The invention will be more particularly pointed out in the following description, taken in connection with the accompanying drawings illustrating the invention, and in which

Fig. 1 is a plan view of the front of a strip of garment label tape,

Fig. 2 is a similar view of the rear face of the tape,

Fig. 3 is a front view of an individual cut and folded label,

Fig. 4 is a rear view of the individual label shown in Fig. 3, and

Fig. 5 is a cross section taken at 5—5 of Fig. 4.

Referring to the drawings: 1 represents the strip of tape in general on which is woven a series of desired indicia, such as a suitable trade mark, name or pictorial representation, 2. The label indicia is spaced at suitable intervals along the tape, providing suitable margins on each side of the indicia to allow the cut edges of the same to be folded. Intermediate adjacent label indicia 2, 2^a, 2^b, etc. the engageable means of the tape is indicated in general as 3. This portion of the tape representing the engageable means is formed by weaving the tape in such a manner that the woof threads 4, 4′ pass loosely over the warp threads 6, 6′; the woof threads lying in parallel relation transverse the length of the tape and the warp threads extending lengthwise of the tape transverse the woof threads, and out of woven engagement therewith. The number of loose unwoven warp and woof threads may of course be varied according to

the size and shape of the feeding finger and its particular mode of operation. Since the tape at present illustrated is intended for use with a feeding finger of bifurcated form, operating to engage the woof threads, the unwoven area has been proportioned and disposed accordingly. The woven bridging portion 5 separates the areas 4 and 4' serving to limit the yield of the loose threads 4 and 4' when engaged by the operating member.

The points at which the tape is to be cut to form the individual garment labels are indicated by dash lines. After the labels are cut at these dash lines, they are folded over as shown in Figs. 3 and 4. It is to be noted that when the labels are so folded over, the folded portions 7 are adapted to lie in flat position closely adjacent the body of the label; this being made possible by the fact that no additional thickness in the body of the tape is presented by the engageable portion 3.

Having thus described my invention with particularity with reference to its preferred form, it will be obvious to those skilled in the art, after understanding my invention, that various changes and modifications may be made therein without departing from the spirit and scope of my invention, and I aim in the appended claims to cover such changes and modifications as are within the scope of the invention.

What I claim is:

1. In a tape of woven fabric comprising a plurality of garment labels woven in connected continuous series, a plurality of spaced means for cooperating with the feeding means of a cutting machine to progressively feed the strip to the cutter, said spaced means comprising portions of the strip having unwoven areas made up of woof threads on one side of the strip and warp threads on the other side of the strip freely traversing the woof threads, said successive spaced means being separated a distance corresponding to the predetermined size of the cut garment labels.

2. In a tape of woven fabric comprising a plurality of garment labels woven in connected continuous series, a plurality of spaced means for cooperating with the feeding means of a cutting machine to progressively feed the strip to the cutter, said spaced means comprising portions of the strip each having two transversely extending unwoven areas made up of woof threads on one side of the strip and warp threads on the other side of the strip freely traversing the woof threads, said successive spaced means being separated a distance corresponding to the predetermined size of the cut garment labels.

3. In a tape of woven fabric comprising a plurality of garment labels woven in connected continuous series, a plurality of spaced means for cooperating with the feeding means of a cutting machine to progressively feed the strip to the cutter, said spaced means comprising portions of the strip having unwoven areas made up of woof threads extending in parallel relation transversely of and on one side of the strip and warp threads on the other side of the strip freely traversing the woof threads, said successive spaced means being separated a distance corresponding to the predetermined size of the cut garment labels.

4. In a tape of woven fabric comprising a plurality of garment labels woven in connected continuous series, a plurality of spaced means for cooperating with the feeding means of a cutting machine to progressively feed the strip to the cutter, said spaced means comprising portions of the strip having unwoven areas made up of woof threads freely traversed by warp threads, and said unwoven areas being surrounded by respectively contiguous woven areas, said successive spaced means being separated a distance corresponding to the predetermined size of the cut garment labels.

In testimony whereof I have signed my name to this specification.

JULIUS M. REIS.