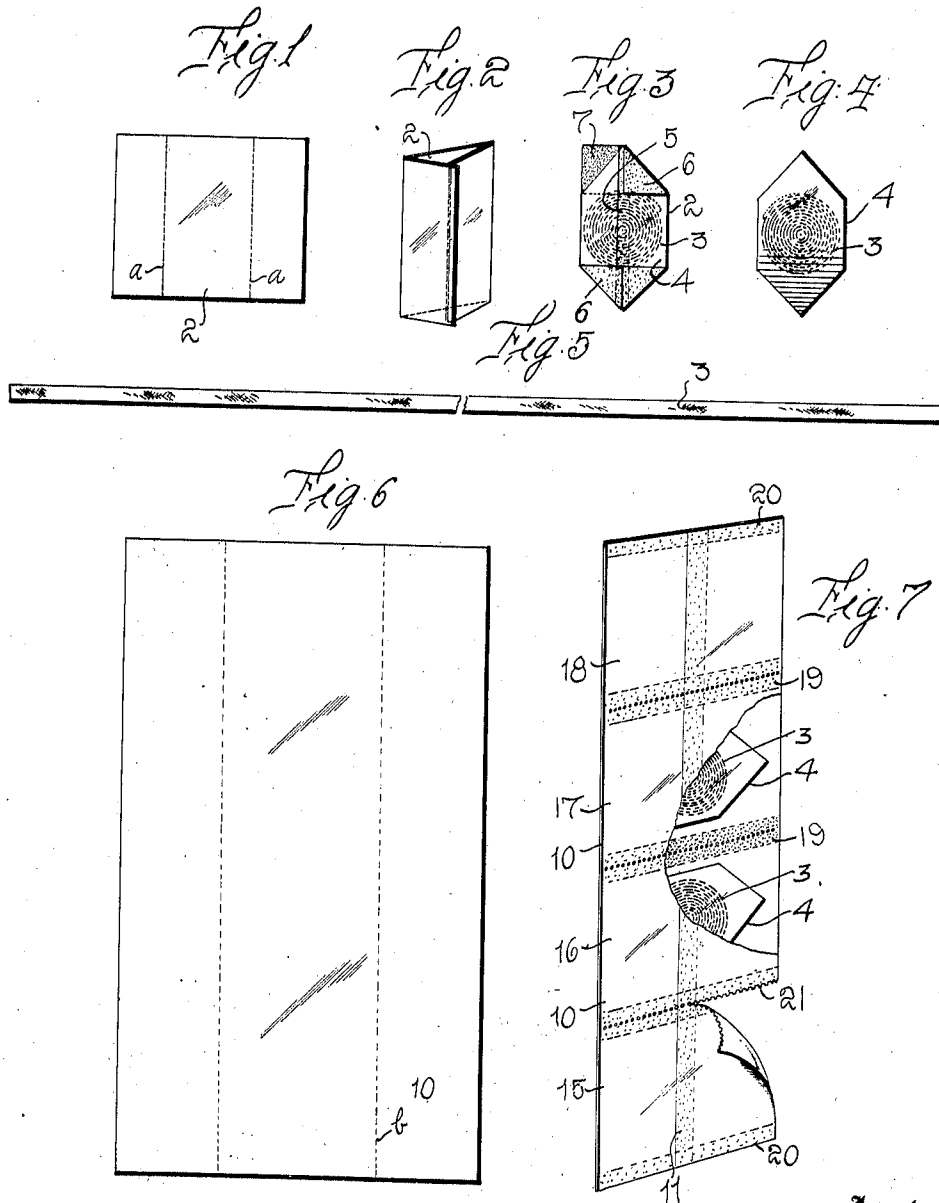


J. A. TRAVIS.
 UMBILICAL CORD TIE.
 APPLICATION FILED MAY 28, 1918.

1,357,128.

Patented Oct. 26, 1920.



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UMBILICAL-CORD TIE.

1,357,128.

Specification of Letters Patent.

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Application filed May 28, 1918. Serial No. 237,057.

To all whom it may concern:

Be it known that I, JEANIE A. TRAVIS, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Umbilical-Cord Ties; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to surgical devices, and more particularly to umbilical ties.

It is one of the objects of the present invention to provide for effectively maintaining surgical devices of the above type in a thoroughly sterile condition after they have been once assembled and packed, and it is another object of the invention to provide for the convenient handling of a package or plurality of the devices without danger of exposing or soiling the remaining ties, and it is also an object of the invention to provide a package containing one or more ties so as to be able to market the same in suitable numbers.

A further object of the invention is to provide a tie of this character which first is hermetically sealed in an individual, fragile, pliant wrapper, and which in turn is again sealed in a cellular, fragile, pliant wrapper or jacket, the latter providing for the effective separation of one of its sections from the other without resulting in the unsealing of adjacent of its sections in which there may be hermetically inclosed another or other enveloped ties.

With the above and other objects in view as will be readily manifest to those skilled in the art, the invention consists in the construction and in the combination, and in details and arrangements of the parts as more particularly described hereinafter relative to the embodiment of the invention, illustrated in the accompanying drawing, wherein—

Figure 1 is a plan view of a blank of which an envelop may be formed;

Fig. 2 is a partly folded blank;

Fig. 3 is a plan view of the nearly completed envelop inclosing a tie;

Fig. 4 is a view of the reverse side of the envelop completely folded;

Fig. 5 is a side elevation of one of the ties broken away;

Fig. 6 is a plan view of a jacket blank; and

Fig. 7 is a perspective view of the folded partly broken away jacket showing it closed and forming several hermetically sealed and separate sections, each containing an envelop inclosing a tie.

While it is possible that the present package may be formed of material of various properties and characteristics forming envelops and jackets, and while it is obvious that the envelops and jackets may assume various forms and be folded in various methods and manners in the embodiment of the invention illustrated, there is shown in Fig. 1 a blank 2 preferably of tissue paper and suitable size which may be folded along the lines *a* to assume the form shown in Fig. 2, so as to envelop the umbilical tie shown at 3 in Fig. 5, which may be arranged in a compact mass as for instance by forming it into a spiral or volute as indicated by the dotted lines in Figs. 3 and 4 in which the compacted tie 3 is disposed between the front and back components of the envelop 4 formed of the blank 2. For a purpose to be hereinafter described, preferably the envelop, the folded leaves of which are hermetically sealed or pasted together as at 5, is overturned at its corners as illustrated at 6, these corners being pasted down as indicated by the stippling 7 and thus forming a hermetically closed envelop of the form illustrated in Fig. 4 with points at its narrower sides. Any suitable number of these envelops with their inclosed ties are capable of being severally protected and conveniently carried in an exterior jacket, which in the present instance may be formed of a blank as shown in Fig. 6, at 10, foldable along the lines *b* to assume the shape of a tube as illustrated in Fig. 7, the overlapping edges of the folded sides being pasted together as indicated at 11. An additional seal is made which divides the jacket 10' into sections 15, 16, 17, and 18, by transversely pasting the front and back panels together as indicated along the zones 19, and also at the ends 20. The longitudinal paste line 11 together with the transverse paste lines 19 and 20 thus form hermetically closed sections 15 to 18, in each of which there may be protected the loaded envelop 4, which preferably is disposed with its longitudinal axis transverse to the jacket 10', so that the parallel edges of each of the envelops 4 lie in proximity to the adjacent gummed portions 19 and 20 with the points of the en-

velop adjacent the longitudinal edges of the jacket 10'. This latter is weakened along its zones 19 to facilitate severing one of the sections from the other, this weakening in the present instance being obtained by perforating the jacket along the transverse lines 21 at a line intermediate the edges of the zones of paste at 19, so that when one of the sections is severed along the perforated or weakened line 21, the seal of another of the sections is not broken, thereby keeping the inclosed envelop and its tie from danger of contamination.

By arranging the envelops 4 with their longitudinal axis transverse to the jacket 10' it will be seen that the sections 15, 16, 17 and 18 may be severed one from the other without danger of breaking open any of the inclosed envelops.

The advantage of this package is that each tape or tie after being incased in individual envelops and sterilized is kept free from exposure to germs by the outer jacket from which one section is easily separated from the other by tearing along the weakened

line, leaving the remaining ties of the package in hermetically sealed condition. While the number of sections in the jacket may vary, and in fact while the article may be manufactured in a strip of any desired length and therefore enable the removal of any number of connected sections as may be desired, for convenience the jacket may consist ordinarily of four sections, two of which are usually required in general practice, and sometimes a third may be used for re-tying or in case of multiple birth there is need of all four of the ties.

What is claimed is:

A sterile packet for umbilical cord ties comprising in combination an outer plural separable section jacket, each separable section comprising an hermetically sealed chamber and a plurality of hermetically sealed envelops, each containing an umbilical cord tie member and one of said envelops being inclosed in each of said separable sealed chamber sections.

In testimony whereof I affix my signature.

JEANIE A. TRAVIS.