June 21, 1966 C. B. STENVALL 3,256,881

ADHESIVE BANDAGE AND WRAPPER THEREFOR

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Fig. 2.

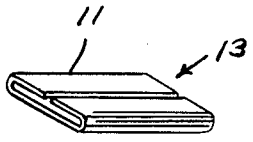


Fig. 1.

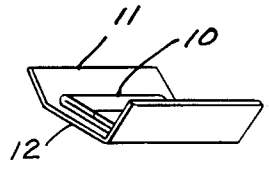


Fig. 3.

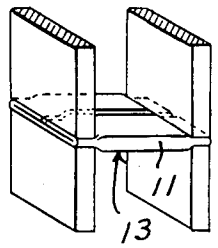


Fig. 4.

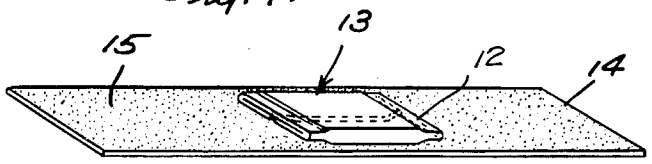


Fig. 5.

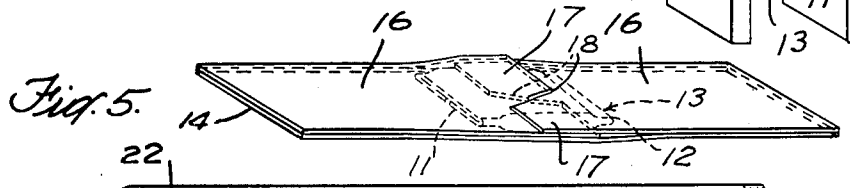


Fig. 6

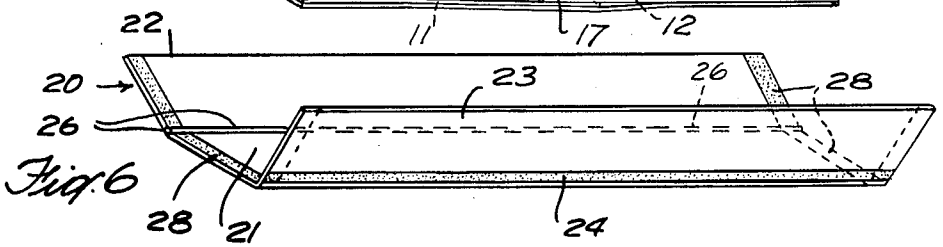
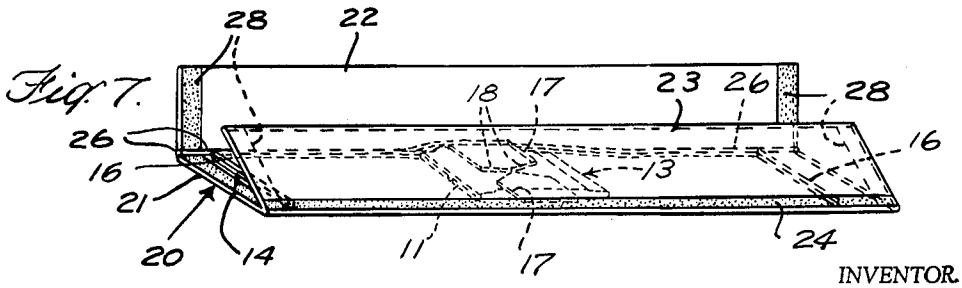


Fig. 7.



INVENTOR.
CARL B. STENVALL
BY
N. L. Lee
ATTORNEY

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Fig. 8.

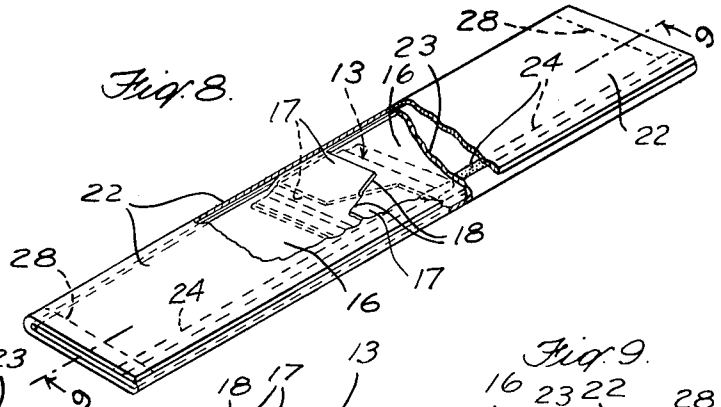


Fig. 9.

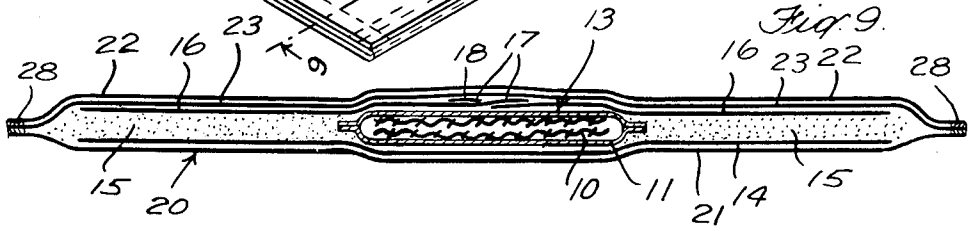


Fig. 10

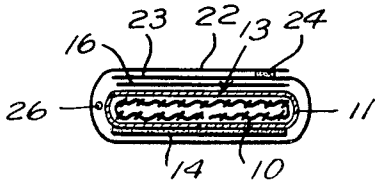
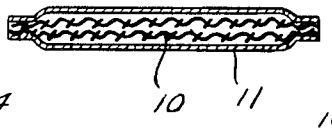


Fig. 12.



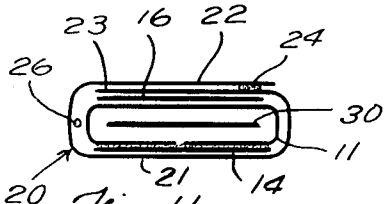


Fig. 11.

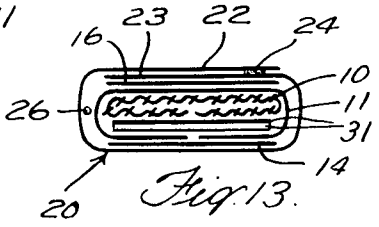


Fig. 13.

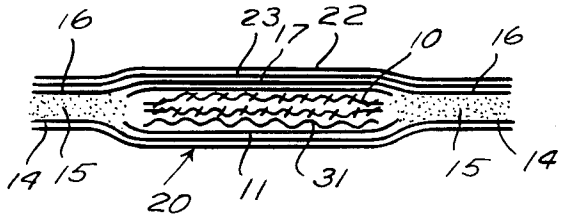


Fig. 14.

INVENTOR.
CARL B. STENVALL
BY
N. L. Lee
ATTORNEY

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3,256,881

ADHESIVE BANDAGE AND WRAPPER THEREFOR

Carl B. Stenvall, 15 River St., New Rochelle, N.Y.

Filed Oct. 26, 1964, Ser. No. 406,340
3 Claims. (Cl. 128—156)

This application is a continuation-in-part of my co-pending application Serial No. 92,884, filed March 2, 1961, now abandoned.

This invention relates to bandages and more particularly to adhesive bandages in package form.

An object is to provide a bandage of the above type having novel and improved characteristics.

Another object is to provide such a bandage which does not fray or form loose ends which could contaminate the wound during use.

Various other objects and advantages will be apparent as the nature of the invention is more fully disclosed.

In accordance with the present invention the bandage is composed of a pad consisting of an absorbent filler enclosed in a cover of treated gauze such as gauze impregnated with a natural or synthetic latex. The ends of the cover may extend slightly beyond the filler and are bonded by applying pressure to the end portions of the cover.

This bonding of the ends prevents the gauze from ravelling or forming loose ends during use.

The pad is laid on a backing strip having a pressure sensitive adhesive on its upper surface. A removable protective cover strip is laid over the pad and over the exposed adhesive surface of the backing strip to protect the latter until the bandage is to be used.

The entire bandage is then enclosed in a wrapper of waxed paper, glassine, or the like, containing a tear cord which is folded over and sealed across its ends by a heat sealing adhesive and along the side edge by a solvent adhesive. The use of the solvent adhesive along the side of the wrapper avoids the application of heat or pressure to the wrapper in the area of the bandage.

The nature of the invention will be better understood from the following description, taken in connection with the accompanying drawings in which a specific embodiment has been set forth for purposes of illustration.

In the drawings:

FIG. 1 is a perspective view of the pad before the cover has been completely folded;

FIG. 2 is a similar perspective view of the pad showing the cover folded;

FIG. 3 is a perspective view illustrating the step of pressure sealing the ends of the cover;

FIG. 4 is a perspective view showing the pad in place on an adhesive strip;

FIG. 5 is a similar perspective view showing the cover strip in place;

FIG. 6 is a perspective view of the wrapper in partly folded position;

FIG. 7 is a similar perspective view showing the bandage and wrapper with the wrapper partially folded;

FIG. 8 is a similar perspective view showing the folded package with parts broken away for clarity;

FIG. 9 is a longitudinal section of the package taken on the line 9—9 of FIG. 8 but on a larger scale;

FIG. 10 is a transverse section through the package illustrating a further embodiment of the invention;

FIG. 11 is a transverse section illustrating another embodiment of the invention;

FIG. 12 is a longitudinal section through the pad illustrating a further embodiment of the invention;

FIG. 13 is a transverse section through a package similar to FIG. 10 illustrating a further embodiment of the invention; and

FIG. 14 is a partial longitudinal section through the package of FIG. 13.

Referring to FIGS. 1 to 10 a pad **13** is shown as comprising a filler **10** of folded gauze strips or of cotton or other absorbent material. The filler **10** is covered by a folded strip of gauze **11** which has been impregnated with a pressure sensitive bonding agent such as natural or synthetic latex.

The ends **12** of the cover **11** may extend beyond the filler **10** and are bonded by the application of a suitable pressure for causing the impregnant to bond the two layers together as illustrated in FIG. 3.

The surface of the pad which comes in contact with the wound to be protected thus contains no loose ends and cannot ravel.

This pad **13** is laid upon a backing strip **14** of fabric or of a synthetic material such as polyvinyl-chloride having an adhesive coating **15** on its upper surface as shown in FIG. 4. The pad is covered by a cover strip **16** of paper which is formed in two parts having interleaved V-shaped notches **18** forming tabs **17** on each of the parts which are overlapped for forming a complete closure and also to provide a finger grip for opening and stripping the parts from the pad when the bandage is to be used.

The entire bandage is now enclosed in a folded wrapper **20** (FIG. 6) having a bottom panel **21**, and overlapping top panels **22** and **23** folded to provide a side edge **24** which is sealed by a solvent adhesive. The wrapper **20** may be provided with a tear cord **26** to facilitate the removal of the bandage. The ends of the wrapper **20** extend beyond the bandage and are sealed by a heat and pressure sensitive adhesive extending in strips **28** across each end of the wrapper. In order to facilitate the bonding of the tear cord to the ends of the wrapper the tear cord is impregnated with the heat and pressure sensitive adhesive which is applied to the strips **28**. When heat and pressure are then applied to the strips **28** for sealing the ends of the wrapper the adhesive in the tear cord becomes firmly bonded to the adhesive on the wrapper so that the tear cord is permanently secured at the ends to the heat sealed ends of the wrapper. Thereafter when the wrapper is to be removed the heat sealed ends **28** are torn from the ends of the wrapper providing a grip for the ends of the tear cord which are firmly bonded to these strips by the heat sensitive adhesive.

FIG. 11 illustrates an embodiment wherein the folded filler **10** of FIG. 1 is replaced by a loose packing **30** of obsorbent material such as cotton.

In the embodiment of FIG. 12 the filler **10** extends to the ends of the gauze **11** and the filler and outer gauze are bonded together by the sealing pressure which causes the impregnant in the cover **11** to pass through and seal the superposed layers.

What is claimed is:

1. A bandage comprising a pad having a top side and a bottom side, said pad comprising a filler of absorbent material and a gauze strip impregnated with a pressure sensitive binding material enclosing said filler, said gauze strip benig folded around said filler to form top and bot-

tom panels, said top and bottom panels having end portions, said pressure sensitive binding material binding together said end portions of said panels to prevent fraying, a backing strip provided with an adhesive coating secured to the bottom side of said pad, and a cover strip covering the top side of the said pad and the marginal end portions of said adhesive coating, the end portions of said top and bottom panels of gauze being bonded independently of the adhesive on said backing strip.

2. A bandage as set forth in claim **1** in which said filler extends to the ends of the said cover and the pressure sensitive adhesive bonds together the ends of the filler and the cover.

3. A bandage as set forth in claim **1** in which a corrugated spacing member is disposed within said cover and between said cover and said filler.

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ADELE M. EAGER, *Primary Examiner.*