

(No Model.)

R. W. JOHNSON.
PACKAGE OF SURGEON'S SILK OR CATGUT.

No. 408,625.

Patented Aug. 6, 1889.

Fig. 1.

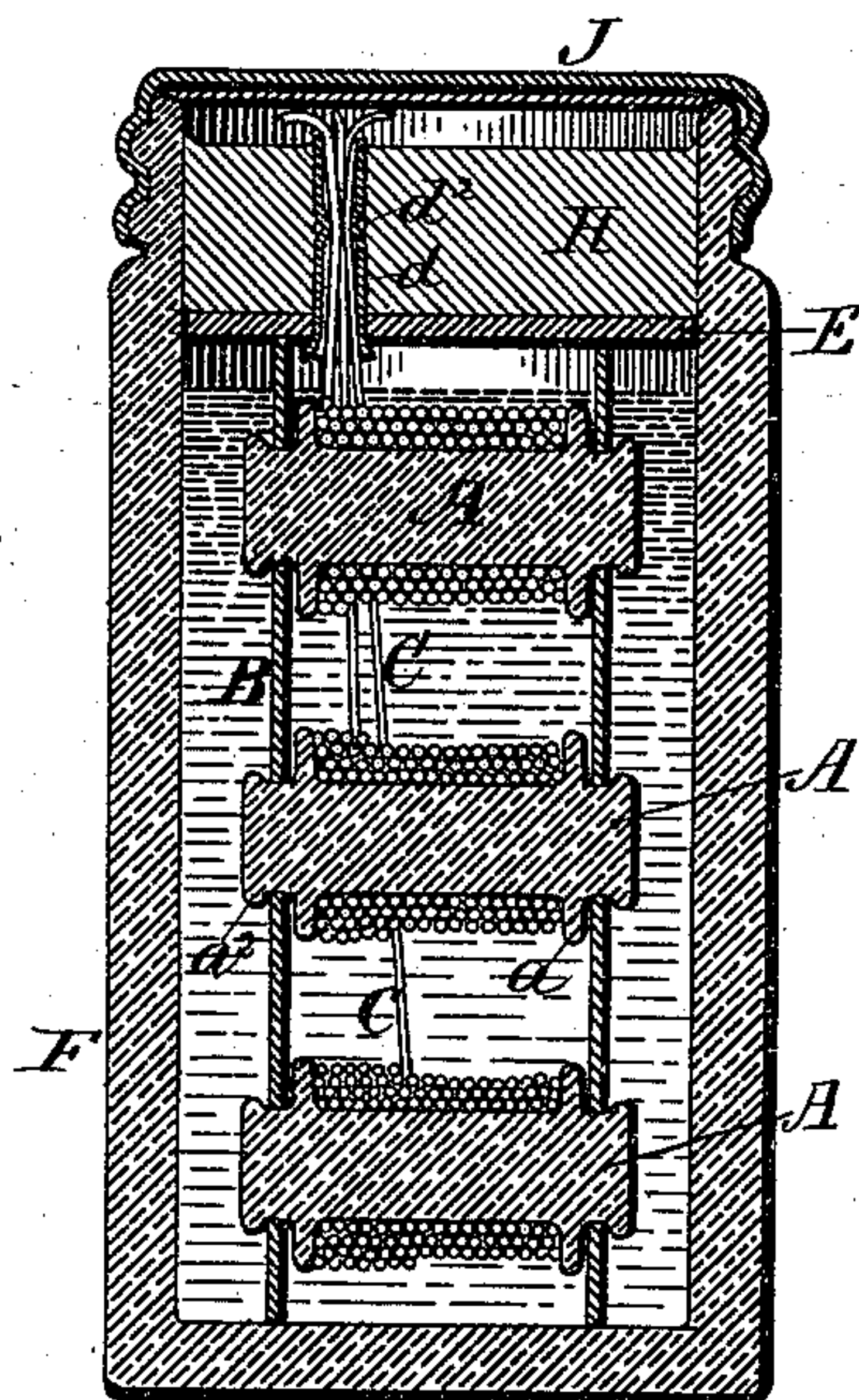
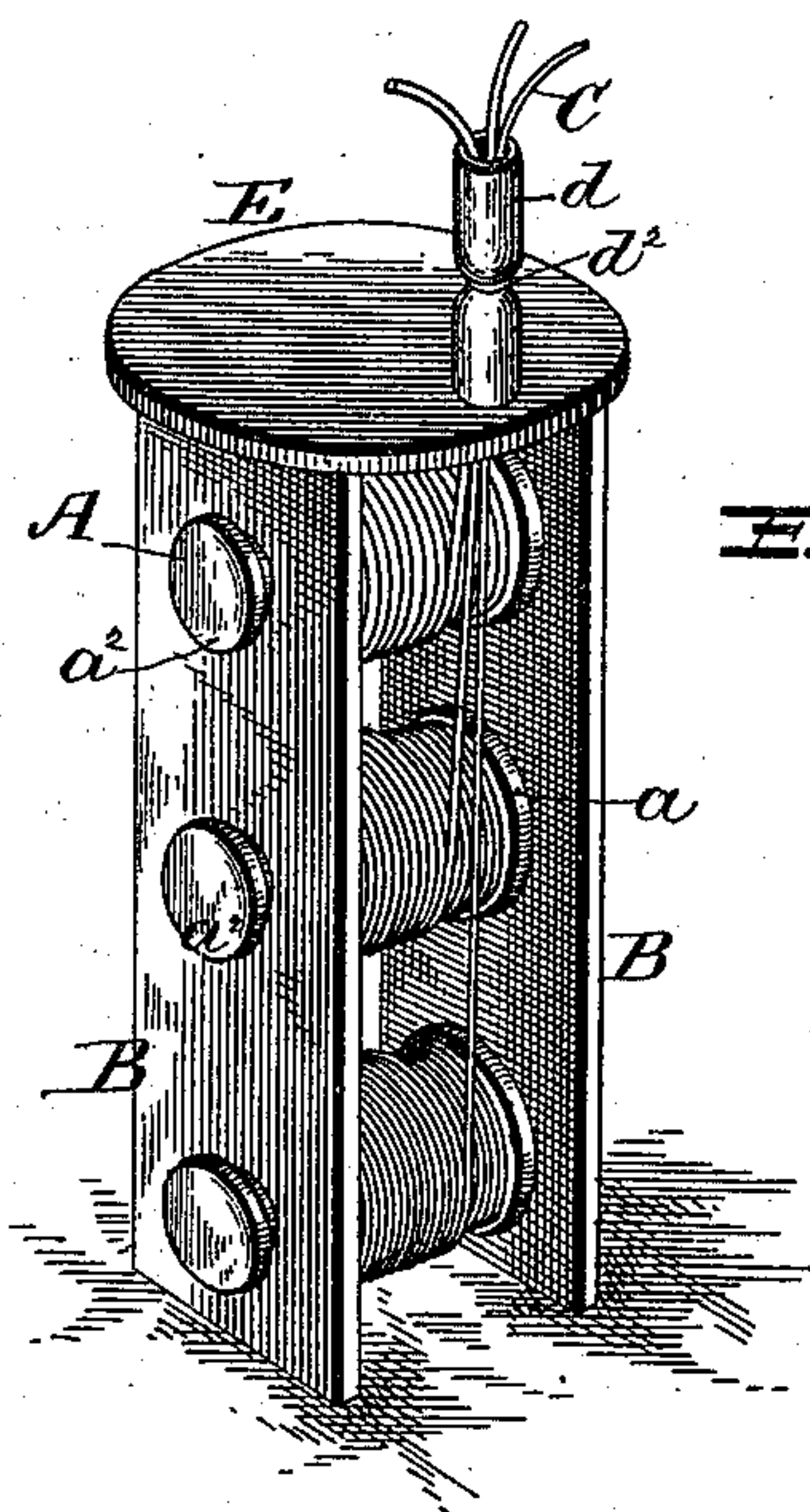


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

ROBERT W. JOHNSON, OF ELIZABETH, NEW JERSEY.

PACKAGE OF SURGEON'S SILK OR CATGUT.

SPECIFICATION forming part of Letters Patent No. 408,625, dated August 6, 1889.

Application filed May 27, 1889. Serial No. 312,275. (No model.)

To all whom it may concern:

Be it known that I, ROBERT W. JOHNSON, a citizen of the United States, residing at Elizabeth, in the county of Union, State of New Jersey, have invented certain new and useful Improvements in Packages of Surgeon's Silk or Catgut, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to sealed inclosures containing silk or catgut ligatures wound upon bobbins; and the objects of my invention are to provide suitable non-metallic and non-corrodible bearings for the spools, to provide a flexible tubular guide and clamp for the passage and tight-fitting issue of the ligatures, and to provide flexible means for sealing the package hermetically and also around said flexible guide. I attain these objects by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of a package constructed in accordance with my invention.

Fig. 2 is a perspective view of the spools, the spool-supporting frame, its upper disk, and tubular guide for the ends of the ligatures.

In said drawings, A represents glass bobbins having circular shoulders a to form the end limits for the silk or catgut ligatures wound thereon, and flanged ends a^2 to retain them in bearing-plates B, of celluloid or of hard rubber, said plates having perforations or bearings to receive, after being slightly softened, the journals of the bobbins and retain them permanently united to said bearing-plates, and upon said bobbins the silk or catgut ligatures C are wound in any suitable manner, and the ends are made to pass through a flexible guide d , consisting of a short length of flexible rubber tubing, and after they are passed through said flexible guide said ligatures and guide are tightly compressed by

means of a silk or other strong cord tied around them at d^2 . Said flexible guide is then fittingly passed through a disk E, of paste-board or other suitable material, and the parts are in proper condition to be placed into an antiseptic liquid in a bottle F, the disk E substantially fitting in the interior of said bottle.

To seal the bottle against the passage of air around the inner surface of the bottle or around the flexible guide, a sealing-liquid—as dissolved gelatine mixed with neutralized sulpholeic acid—is used. This is poured in the neck of the bottle on top of the disk E, when it soon solidifies, as shown at H, but remains flexible, with the ends of the ligatures projecting above it, and said ends are further protected by means of a metal screw-cap J, lined with cork in the usual manner.

When it is desired to use any of the silk or catgut, it is only necessary to remove the screw-cap and draw the desired quantity through the flexible guide d without any loss of the antiseptic liquid.

Having now fully described my invention, I claim—

The herein-described package of surgeon's silk or catgut, consisting of a bottle containing antiseptic liquid, a spool-holder consisting of non-metallic plates having perforations for the reception of the flanged ends of the bobbins and sewing material wound thereon, in combination with a disk, a tightly-compressed flexible tube passing therethrough and receiving said sewing material, and a flexible seal surrounding the flexible tube, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT W. JOHNSON.

Witnesses:

L. V. MATHEWS,

WM. H. RITTER.