C. F. DEWITT.

PACKING FOR METAL CANNULAS OR THE LIKE.

APPLICATION FILED DEC. 29, 1908.

964,406. Patented July 12, 1910.

Fig. 1.

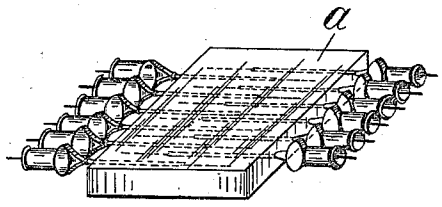


Fig. 2.

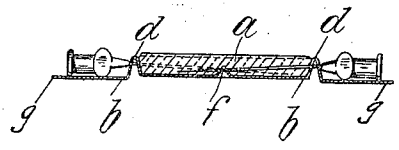
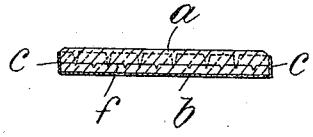


Fig. 3.



Witnesses

R. C. Braddock.

Emory L. Groff.

Inventor

Carl Friedrich Dewitt

By D. P. Wolhaupter.

his attorney

UNITED STATES PATENT OFFICE.

CARL FRIEDRICH DEWITT, OF BERLIN, GERMANY.

PACKING FOR METAL CANNULAS OR THE LIKE.

964,406. Specification of Letters Patent. Patented July 12, 1910.

Application filed December 29, 1908. Serial No. 469,850.

To all whom it may concern:

Be it known that I, CARL FRIEDRICH DEWITT, of 24 Georgenkirchstrasse, Berlin, Germany, a subject of the German Emperor, have invented certain new and useful Improvements in or Relating to Packing for Metal Cannulas or the Like, of which the following is a specification.

This invention has for its object a novel packing for the metal cannulas used for surgical purposes, by which the drawbacks of the packings hitherto in use for such cannulas are done away with. At present there is used for transporting and storing metal cannulas, as a rule, simply a piece of sheet metal of a suitable length and breadth, in the middle of which there is provided either a bend or a piece of sheet metal forming a right angle with the base-plate and provided with openings through which the cannulas are put and held fast in the same. There have also been used stamped metal plates provided with recesses corresponding with the shape and size of the cannulas, finally a packing was also used which dispensed with metal plate, and the set of cannulas was simply wrapped in cotton-wool or cellulose and packed in a cardboard-box. With all these packings however there was noticed, after a prolonged storing or transport, a formation of rust, which in some cases was very great, and there was further the drawback that the thin ends of the cannulas were liable to be damaged. The subject of this application entirely removes these drawbacks, and rusting of the metal parts and breaking off, or other damages of the pointed ends, are quite impossible. In the main the innovation consists in using paraffin, or the like, of a suitable cake or block form as packing-material, in which the cannulas are embedded and thus protected against rust and damages. The paraffin-bed is preferably surrounded by a metal case, which serves as a support to the paraffin when cardboard boxes are used for transporting the cannulas.

The subject of the invention is illustrated in the accompanying drawing, wherein similar letters refer to similar parts throughout the several views, in two sample forms of construction.

Figure 1 shows the cannulas packed in a paraffin-bed *a*. As will be seen, the cannulas are completely surrounded by paraffin, or a similar mass, so that the air is perfectly shut off. This packing is produced in the simplest manner by pouring the fluid paraffin into a suitable mold, into which the cannulas have previously been placed, whereupon the mold is removed. Figs. 2 and 3 show in vertical sections made at right angles to each other, a form of construction in which the paraffin-bed, forming the packing medium properly speaking, is strengthened and retained by a sheet metal plate *b*. The latter is preferably provided with bent up parts *c c* and cross-pieces *d d* vertical to the base-plate *b* with openings as shown in Fig. 3, or it is bent as shown at *f* in Fig. 2, so that the paraffin-bed is firmly retained on the sheet metal plate *b*. As the packing of the cannulas—as already said—shuts them off from the air, and is sufficiently yielding, rusting or damaging of the metal cannulas, or the like, is quite impossible.

In the construction described it will be observed that the elements *c* and *d* constitute upstanding flanges to retain the paraffin bed in place, while the flanges *d* are perforated to correspond with perforations or notches in the crimp or bend *f* to receive the needles or points of the cannulas. Beyond the upstanding flanges *d* the metal plate is extended to provide supporting ledges *g* for the body portions of the cannulas.

What I claim as my invention and desire to secure by United States Letters Patent is:—

In a packing for metal cannulas, the combination of an impervious embedding material for the cannula points, and a sheet metal holder therefor consisting of a plate formed with upstanding flanges arranged about the embedding material, a centrally arranged projection, and supporting ledges projecting beyond certain of said flanges, the flanges next to said ledges and the said central projection having openings receiving the cannula needles.

In witness whereof I have hereunto set my hand in presence of two witnesses.

CARL FRIEDRICH DEWITT.

Witnesses:
HENRY HASPER,
WOLDEMAR HAUPT.