

No. 626,021.

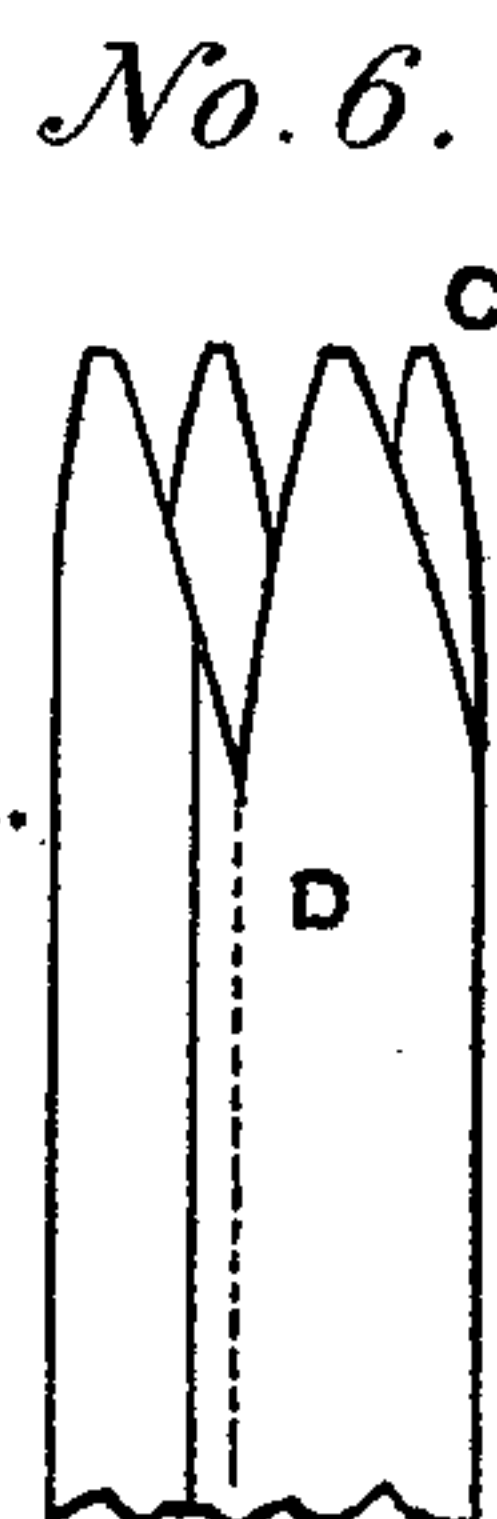
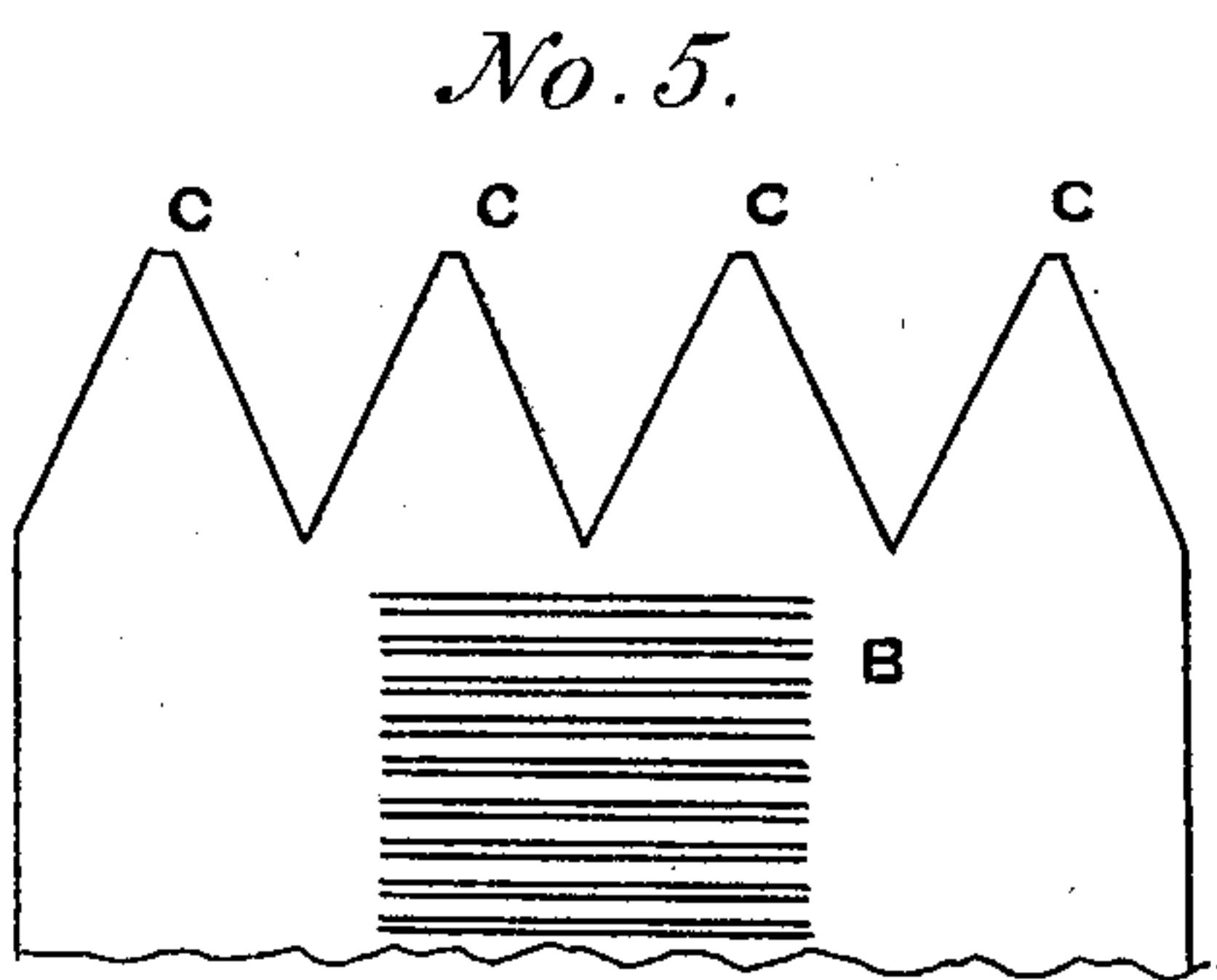
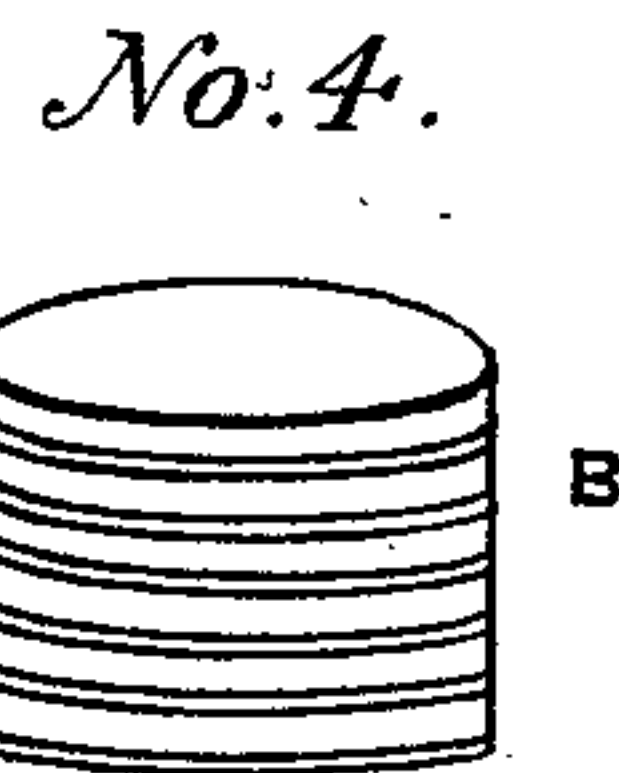
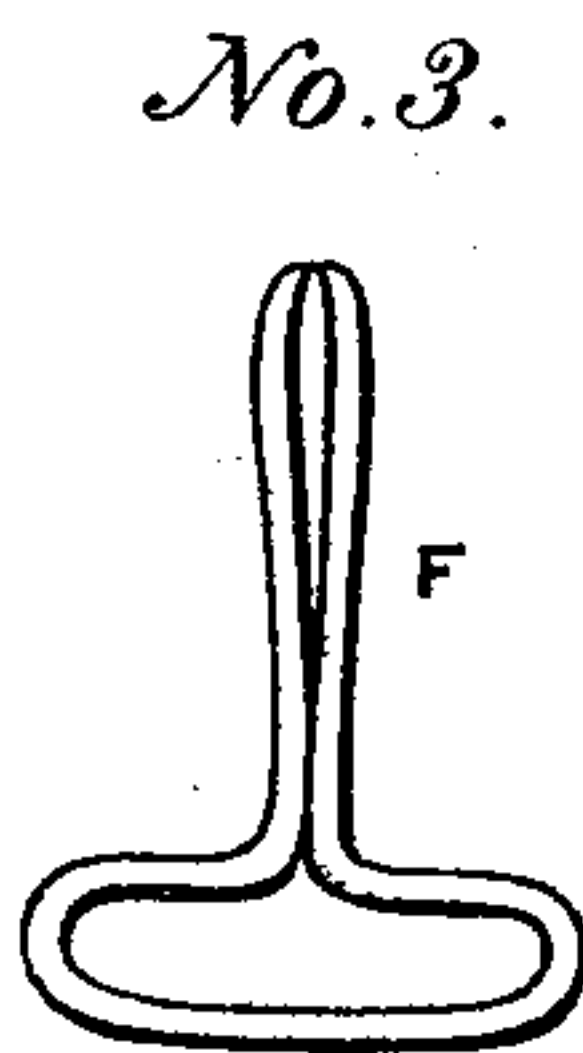
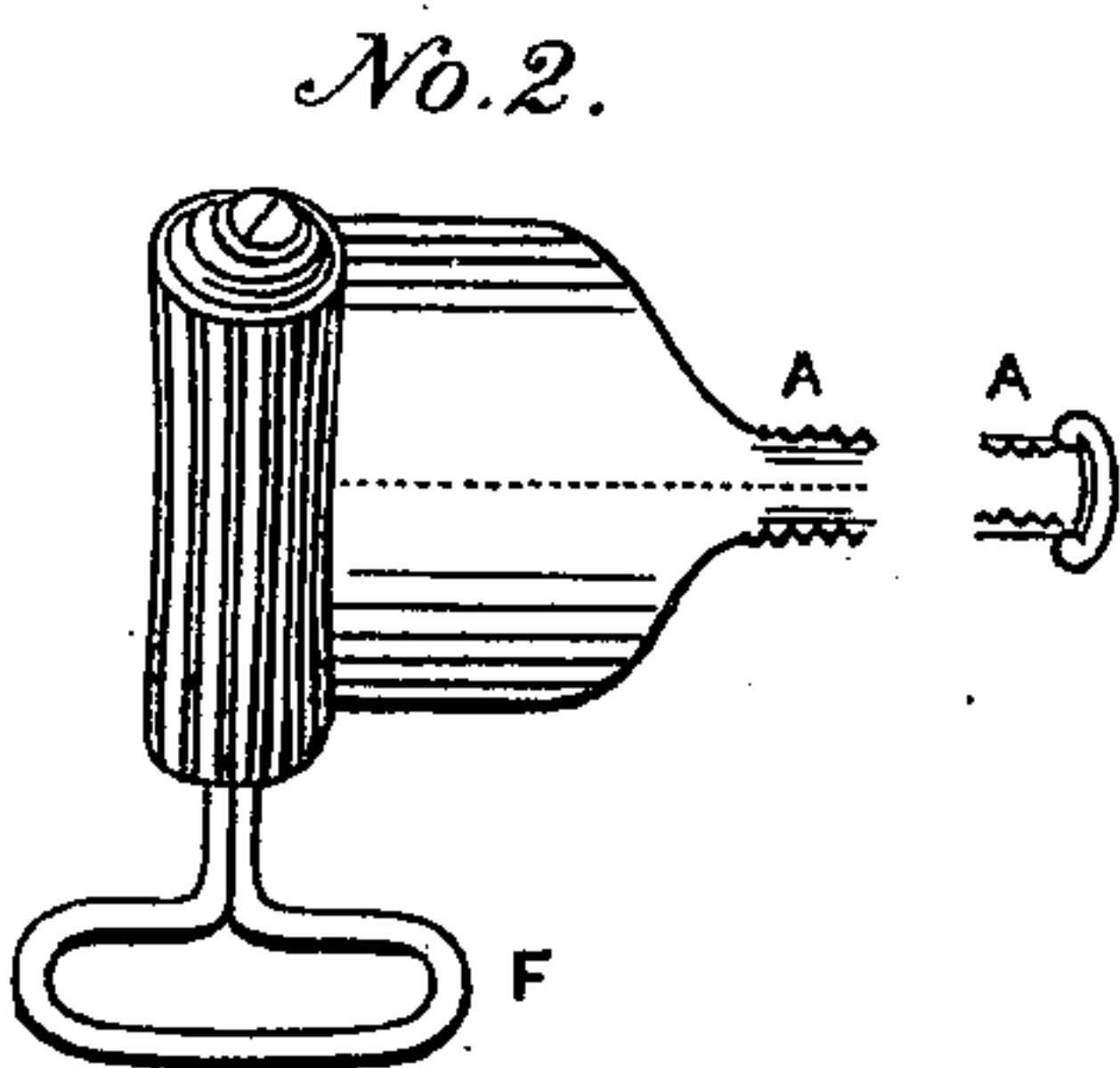
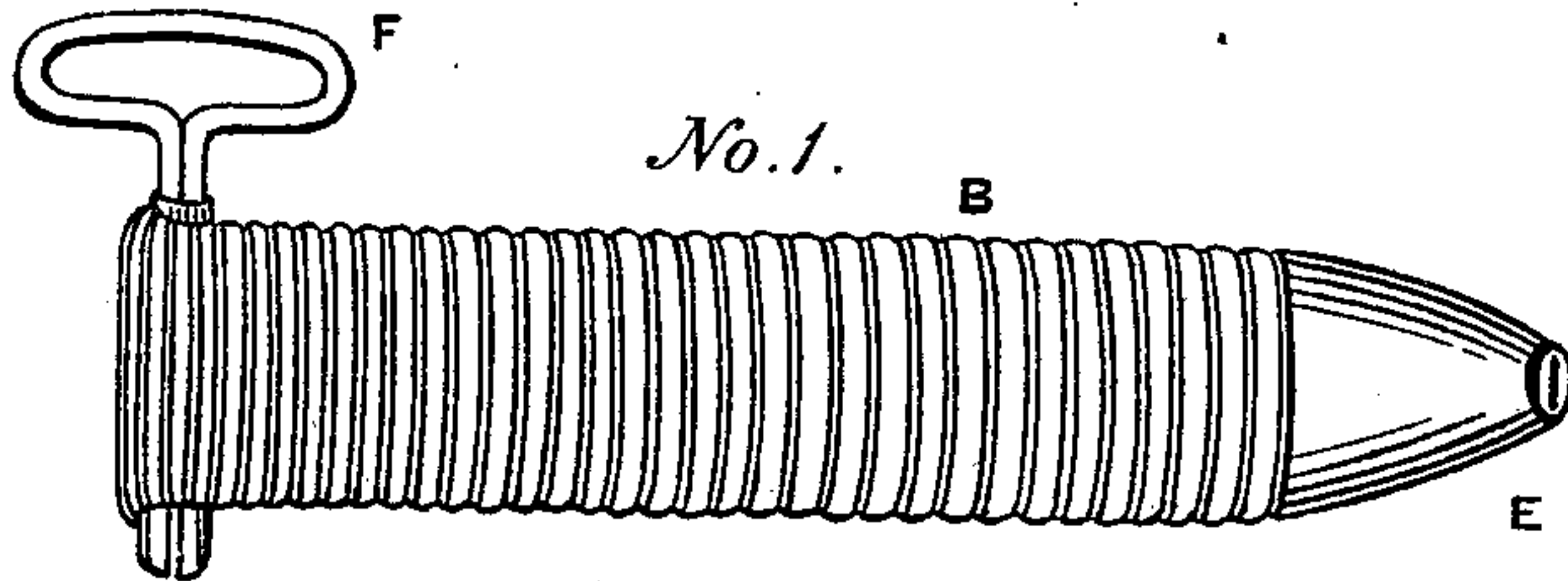
Patented May 30, 1899.

A. H. GERDOM.

DEVICE FOR RETAINING LIQUID OR VISCOUS SUBSTANCES.

(Application filed Feb. 1, 1899.)

(No Model.)



WITNESS.

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DEVICE FOR RETAINING LIQUID OR VISCOUS SUBSTANCES.

SPECIFICATION forming part of Letters Patent No. 626,021; dated May 30, 1899.

Application filed February 1, 1899. Serial No. 704,132. (No model.)

To all whom it may concern:

Be it known that I, ANDREW H. GERDOM, a citizen of the United States of America, and a resident of the city of Albany, in the county of Albany, State of New York, have invented certain new and useful Improvements in Devices for Retaining Liquid or Viscous Substances, of which the following is a specification.

My invention relates to devices for retaining liquid or viscous substances, and the object of my invention is to provide a flexible tube, within which may be placed a liquid or viscous substance; with a means for discharging the contents of said tube gradually and in the quantity desired by winding the tube upon itself, beginning at the end opposite the spout. I attain this object by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a plan showing the tube in condition for use. Fig. 2 is a plan, partly in section, showing the tube after a portion of its contents has been expelled. Fig. 3 is a plan of the key. Fig. 4 is a section. Fig. 5 is a plan of the metal strip before it is rolled into the form of a tube. Fig. 6 is a plan of Fig. 2 before the spout is compressed.

Similar letters refer to similar parts throughout the several views.

For the purpose of discharging paints, oils, or other viscous substances from tubes containing the same it is customary to pinch the rear of the tube by squeezing the parts together, and thus causing the contents to be ejected through the port. This is often very difficult to accomplish.

In order to make it possible to discharge all of the contents from the tube and eject the same positively and at the expenditure of little force or strength, I have constructed a tube which may be in the form shown in the drawings or in any convenient form.

I preferably use a thin metal strip, one side of which is corrugated, as shown at B, and the ends of which are serrated, as shown at C C. I then secure the edges of the metal together by soldering, as shown in Fig. 6 at D, or unite them in any suitable manner. I first arrange one side, which I call the "back" of the tube, which contains the corrugations B, and then the other side or "front" of the tube, along which is the solder or uniting substance. The serrations C C, I press together, forming a spout E. At the rear of the tube I arrange

an opening through which the key F may enter, and by means of which key I can wind the tube about itself, as shown in Fig. 2. It is apparent that the contents of the tube when the key is operated will be discharged through the spout E in quantities determined by the extent of the operation of the key.

The necessity of corrugating the tube along one side is apparent, because if both the front and rear of the tube were of the same length it would not wind up smoothly, but would buckle and get out of shape. Making the corrugations along the back of the tube allows for the expansion necessary on that portion of the tube when winding about the key.

I sometimes place a cap A on the spout, as shown in Fig. 2, which may be done by threading the spout and meshing the threads in the cap.

I have illustrated the tube as made of one piece of metal. I may construct it of two or more pieces united together. I do not limit myself to the form of the key used or the cap.

It is apparent that the tube may be used for receiving not only oils, paints, and lubricating substances, but also for jellies, condensed milk, and various glutinous substances.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A flexible tube provided with corrugations along one side thereof; a spout at one end; a key adapted to be inserted near the end of the tube opposite the spout, so arranged that by means of the key the tube may be wound about itself, substantially as described.

2. In a tube for retaining liquid or viscous substances, a corrugated portion along one side thereof; a spout; a cap adapted to be placed on said spout; a means for winding said tube from the rear end thereof upon itself, substantially as described.

3. A tube adapted to retain liquid or viscous substances provided with a corrugated portion along one side thereof; having an end thereof provided with an opening adapted for the insertion of a key, with a key adapted to be inserted in said opening, substantially as described.

Signed by me, at Albany, New York, this 31st day of January, 1899.

ANDREW H. GERDOM.

Witnesses:

FREDERICK W. CAMERON,
MARY E. PARLATI.