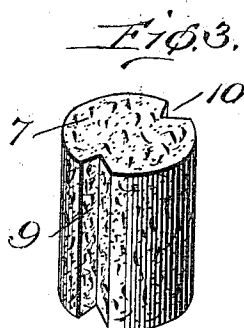
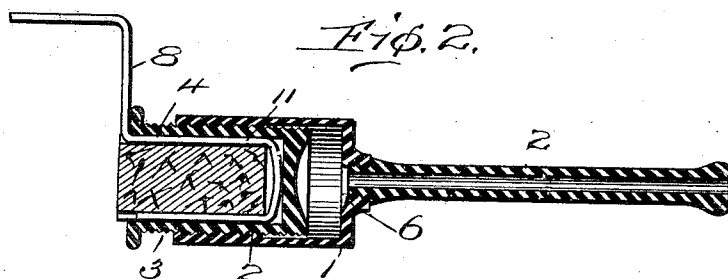
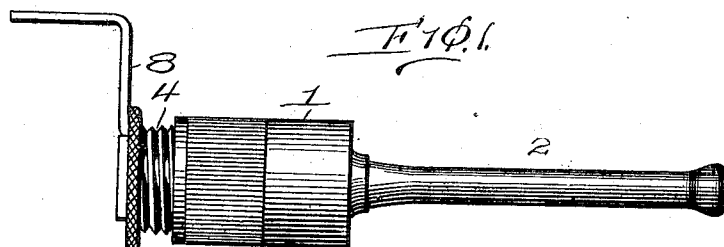


A. D. FOSTER.
 APPLICATOR.
 APPLICATION FILED JUNE 11, 1910.

972,686.

Patented Oct. 11, 1910.



Witnesses
J. M. Fowler Jr.
A. Kitchen

Inventors
Albert D. Foster
 By *Mason Farnick Lawrence,*
 his Attorneys

UNITED STATES PATENT OFFICE.

ALBERT D. FOSTER, OF CHICAGO, ILLINOIS.

APPLICATOR.

972,686.

Specification of Letters Patent.

Patented Oct. 11, 1910.

Application filed June 11, 1910. Serial No. 566,447.

To all whom it may concern:

Be it known that I, ALBERT D. FOSTER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Applicators; 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 improvements in surgical instruments, and particularly to improved injectors or applicators, and has for an object the arrangement of means for injecting in a continuous stream a measured quantity of medical preparations.

A further object of the invention is the arrangement of an injector or applicator having an internally threaded housing or receptacle and an exteriorly threaded plunger arranged to be secured into said housing, the plunger being arranged with a crank member and securing device fitting into the threaded plunger for holding the crank member always in position, whereby the threaded plunger may be evenly and continuously moved inward for giving a continuous even flow to the ointment being injected.

With these and other objects in view the invention comprises certain novel constructions, combinations and arrangement of parts as will be hereinafter more fully described and claimed.

In the accompanying drawings: Figure 1 is a side elevation of an embodiment of the invention. Fig. 2 is a longitudinal section through the structure shown in Fig. 1. Fig. 3 is an enlarged detail perspective view of a securing or tension member for the crank.

In constructing the applicator the same may be made of any desired material, preferably of hardened rubber, and is arranged with a removable stem or tube which may be straight or any other desired shape as desired or found convenient. The stem or tube is connected with an internally threaded housing, which may, if desired, contain graduation marks interiorly thereof, so as to easily observe the quantity of medical compound used. Arranged to be threaded into the housing is a plunger which is operated by a suitable crank connected therewith, whereby an even and continuous pressure is

given the ointment, so that an even and continuous injection may be had.

In order that the invention may be more clearly understood an embodiment of the invention is shown in the accompanying drawings, in which 1 indicates the housing arranged with internal threads 2 which are engaged by the threads 3 on plunger 4. Threaded into the end of housing 1 is a tube 5 having preferably a comparatively small aperture or passageway therein for permitting fluid in housing 1 to freely pass through the tube. Arranged at the bottom of housing 1 or at the point where tube 5 enters therein is a depression 6 which may be used for draining the housing if desired. Plunger 4 may be rotated until the same engages the bottom of housing 1, which, of course, will force out substantially all of the ointment in the housing 1. Preferably piston 4 is formed hollow for receiving a substantially resilient locking member 7 for holding crank 8 in position. Member 7 is preferably made from cork, though other material might be used, and is formed with grooves 9 and 10 for accommodating the substantially U-shaped portion 11 of crank 8.

When assembling the device the U-shaped portion 11 is fitted over member 7 and then member 7 forced into the hollowed out portion of plunger 4. The friction between member 7 and plunger 4 will effectually prevent any independent rotation of member 7, so that any pressure brought on crank 8 will rotate plunger 4 either inwardly or outwardly according to the direction of rotation.

Housing 1 may be made of any desired size, and the corresponding parts made a corresponding size, so that any desired quantity may be inserted, and inserted in a proper manner by a fast or slow rotation of crank 8 as the case may require.

What I claim is:

1. In a device of the character described, a housing, a discharge tube connected therewith, a plunger threaded into said housing formed with a hollowed out portion, a crank formed with a U-shaped portion fitting into said hollowed out portion, and a friction member fitting into said hollowed out portion and clamping said U-shaped portion of said crank to said plunger.

2. In a device of the character described, a housing, a discharge tube connected there-

with, a plunger threaded into said housing
formed with a hollowed-out portion, a crank
formed with a bent portion fitting into said
hollowed out portion, and a binding member
5 for holding said bent portion in connection
with said plunger for transmitting motion
from said crank to said plunger, said binding
member being formed with a pair of grooves

for accommodating said bent portion of said
crank.

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

10

ALBERT D. FOSTER.

Witnesses:

P. E. O'BRIEN,

WALTER M. YOUNG.