July 19, 1932. R. E. BRUMFIELD 1,868,308

CAPSULE GUN

Filed Feb. 1, 1930

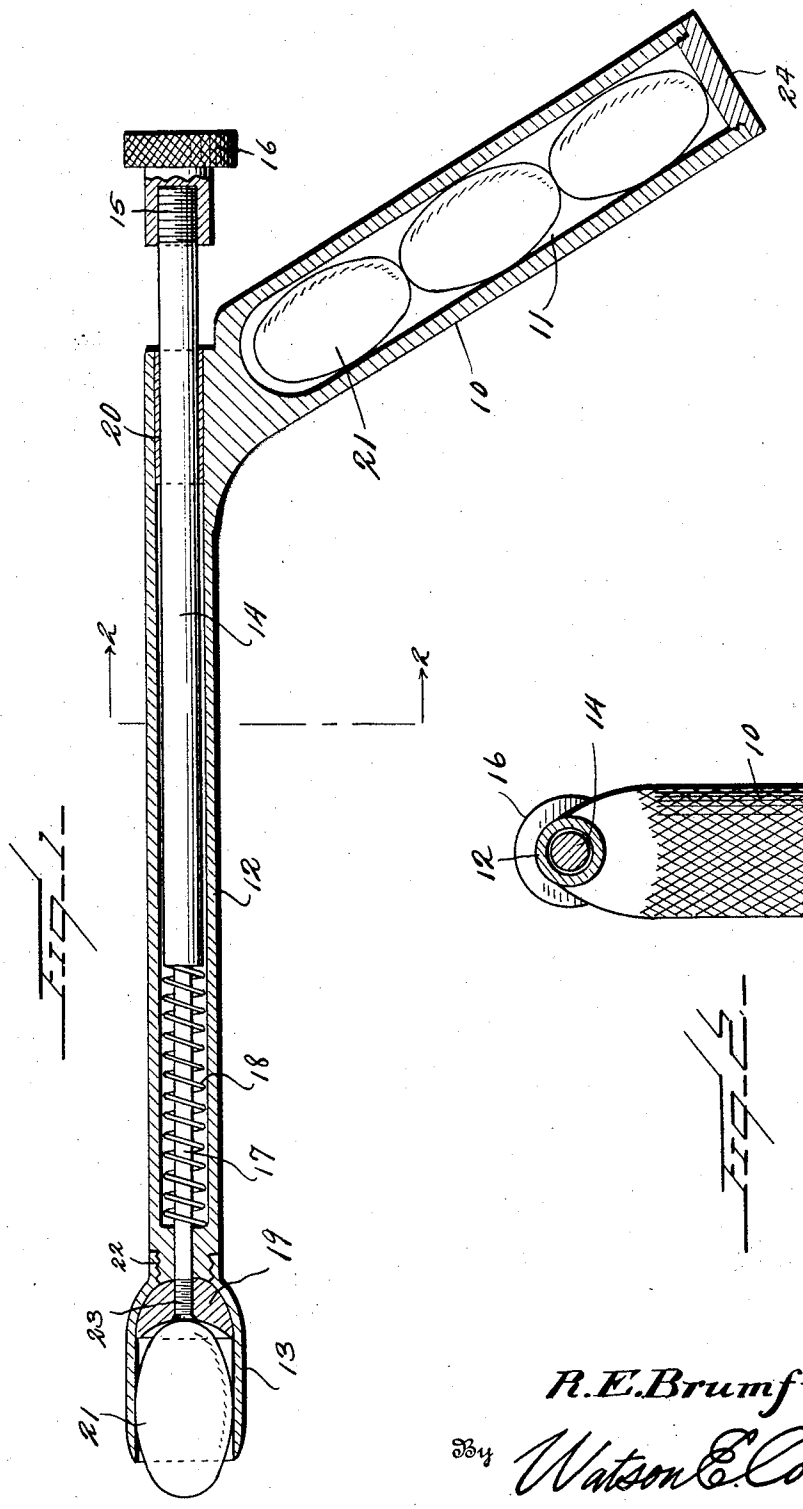

Fig. 1

Fig. 2

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CAPSULE GUN

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The present invention relates to capsule guns and has for an important object thereof the provision of a gun adapted for use in forcing capsules or the like down the throat of an animal.

Another object of this invention is to provide a gun of this character which is provided with a substantially elongated barrel for removably receiving a capsule, the capsule being ejected from the barrel after the barrel has been forced into the throat of the animal.

A further object of this invention is to provide a reciprocable ejector for ejecting a capsule from the chamber of the gun.

A still further object of this invention is to provide in a gun of this character a hollow handle which is adapted to be used as a reservoir or chamber for holding capsules for the gun.

The above and various other objects and advantages of this invention will in part be described in and in part be understood from the following detailed description of the present preferred embodiment, the same being illustrated in the accompanying drawing wherein:—

Figure 1 is a longitudinal section, partly in detail, of a device constructed according to the preferred embodiment of this invention; and

Figure 2 is a fragmentary transverse section taken on the line 2—2 of Figure 1.

Referring to the drawing wherein like numerals of reference designate corresponding parts throughout the several views, the numeral 10 designates a hollow handle of suitable dimensions which is so constructed as to be easily positioned in the hand, the periphery of the handle being preferably knurled or otherwise roughened as at 11.

An elongated barrel 12 is mounted on the outer end portion of the handle 10 and is angularly inclined therefrom. The barrel 12 is provided at the outer end portion thereof with a capsule receiving member 13. An ejector 14 is reciprocably mounted in the barrel 12 and provided at the inner end portion thereof with a threaded portion 15 for threadably receiving a thumb or finger engaging member 16. The outer end portion of the ejecting member 14 is preferably restricted as at 17, and a yieldable or resilient spring 18 is loosely engaged about the restricted portion 17 of the ejector. The spring member 18 is adapted to engage at one end against the ejector 14 and at the opposite end the inner face portion of the capsule receiving member 13 so as to constantly urge the ejector 14 rearwardly.

A cup-shaped annular member 19 is secured to the outer restricted end portion of the ejector 14 and is slidably mounted in the ejecting chamber 13. The annular member 18 is adapted to engage against a capsule 19 or the like which is removably positioned in the capsule receiving member 13. The annular member 18 forces the capsule outwardly of the projecting chamber 13 when the ejecting member 14 is forced outwardly.

A bearing or annular ring 20 may be positioned within the barrel 12 adjacent the inner end portion thereof so as to hold the ejector 14 in spaced relation to the barrel and permit the ejector 14 to reciprocate readily within the barrel.

The capsule member 13 may be threadedly mounted on the barrel 12 as at 22 so that various sizes of capsules may be used, and the ejector or plunger 19 may also be threadedly mounted as at 23 on the end of the reduced member 17.

The hollow handle 10 is adapted to receive a plurality of capsules 20 therein, the capsules being retained by a wad of paper or the like or, if desired, a suitable cap member 24 may be removably positioned in the open end of the handle so as to retain the capsules therein.

In the operation of this device, one of the capsules 20 may be removed from the handle 10 and placed in the ejecting chamber 13, the capsule being relatively flexible so that it will engage the inner periphery of the ejecting chamber and be securely held therein by reason of its own flexibility. The capsule securing member 13 may then be placed in the throat of the animal, being forced downwardly thereinto a sufficient distance so that the animal will not be able to remove the

capsule. The reciprocable ejector 14 may then be forced outwardly by pressing the thumb or other member of the hand against the annular member 16, whereupon the capsule engaging member will force the capsule 20 outwardly of the capsule chamber 13 and into the throat of the animal. It is, of course, to be understood that the capsule 20 may contain any desired medicine which it is desired to place in the throat of the animal, and the exterior of the capsule is preferably constructed of the conventional gelatine material.

The barrel 12 may be of any desired length and is preferably of such length that it will project downwardly into the throat of the animal a sufficient distance so that when the capsule is forced outwardly of the capsule chamber 13 the animal will not be able to remove the capsule from the throat.

It will, of course, be understood that various changes and modifications may be made in the details of construction and design of the above specifically described embodiment of the invention without departing from the spirit thereof, such changes and modifications being restricted only by the scope of the following claim.

What is claimed is:—

A capsule gun of the character described comprising a hollow handle adapted to receive a plurality of capsules, a removable plug in one end of said handle, an elongated barrel secured to said handle and obtusely inclined therefrom, a capsule chamber secured to one end of said barrel, an ejector shaft slidably mounted in said barrel and having one end projecting outwardly of one end of the barrel, the opposite end being reduced and forming a shoulder within the barrel, said reduced end extending into said capsule chamber, a concave injector head mounted on the reduced end of said ejector shaft and engaging against one end of a capsule in said capsule chamber, a spring disposed about the reduced portion of said ejector shaft and having one end engaged against said shoulder and the opposite end engaging against the outer end of said barrel for constantly urging the ejector head against the inner end of said chamber, and an operating member threadedly mounted on the projecting end of said shaft.

In testimony whereof I hereunto affix my signature.

ROSS E. BRUMFIELD.