Aug. 9, 1938. H. W. TOWNSEND ET AL 2,126,358

SHEEP VACCINATOR

Filed Jan. 6, 1938

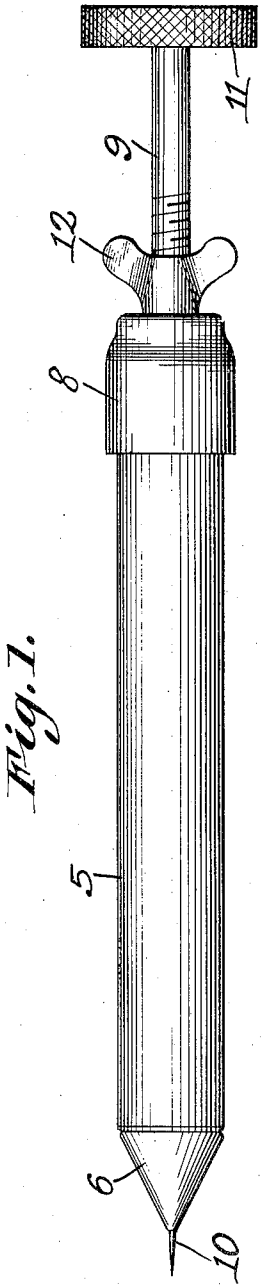


Fig. 1.

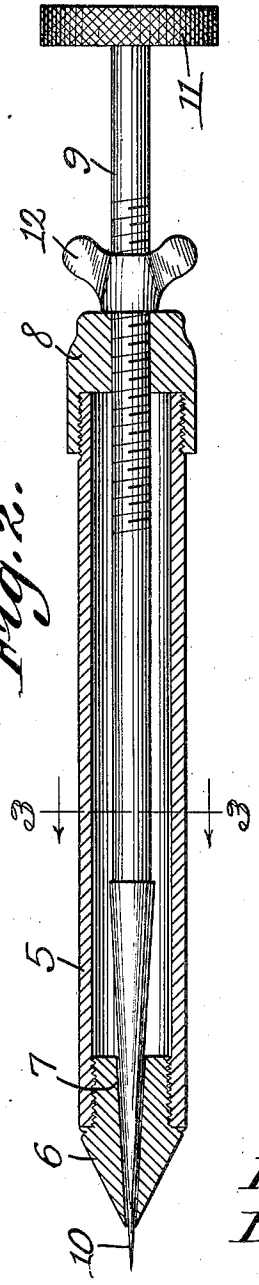


Fig. 2.

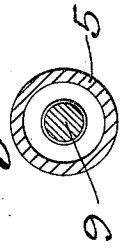


Fig. 3.

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SHEEP VACCINATOR

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2 Claims. (Cl. 128—333)

This invention relates to an instrument designed primarily for use in vaccinating animals such as sheep or the like, the primary object of the invention being to provide an instrument constructed in such a manner that the flow of vaccine may be regulated by the adjustment of the needle to insure the necessary quantity of vaccine being applied according to the length of the needle.

An important object of the invention is the provision of an instrument of the character having means for securing the needle in its position of adjustment insuring the proper flow of vaccine at all times.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein described, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawing:

Figure 1 is an elevational view of an instrument constructed in accordance with the invention.

Figure 2 is a longitudinal sectional view through the instrument.

Figure 3 is a sectional view taken on line 3—3 of Figure 2.

Referring to the drawing in detail, the reference character 5 designates the barrel of the instrument which is formed with internal threads cooperating with threads of the nozzle 6, whereby the nozzle is secured in position. As shown, the nozzle 6 is formed with a longitudinal bore 7 tapered towards the outer or free end thereof.

The opposite end of the barrel 5 is closed by the threaded cap 8, which is formed with a threaded opening to receive the threads of the shank 9 of the needle 10, whereby the shank may be adjusted longitudinally of the barrel 5. A knurled head 11, is formed on one end of the shank 9, whereby the shank 9 may be readily and easily operated to accomplish the adjustment. Mounted on the shank 9 is a lock nut 12 which is adapted to be operated to bind against the cap 8 and secure the shank against movement after an adjustment has been made and the instrument is in use.

The needle indicated by the reference character 10, forms an important feature of the invention, and is tapered to fit within the tapered bore of the nozzle 6, so that as the shank is adjusted, the needle is moved within the nozzle, varying the seating of the needle 10 in the bore 7 of the nozzle and controlling the rate of flow of vaccine from the barrel. Thus it will be seen that due to this construction the length of the needle is not only adjusted for a particular use, but the quantity of vaccine is also regulated proportionately insuring the proper quantity of vaccine for the length of the needle, for the maximum of efficiency.

This vaccinator is in no sense a device for injection of a serum in the animal, the serums for soremouth in sheep preclude all possibility of injection since the skin of the animal cannot be penetrated or the serum placed beneath the skin of the animal; hence the value to the particular vaccinator is that the needle upon which is regulated the flow of vaccine to be applied is one calling for the simple scratching of the outer skin of the animal: All idea therefore of ejection or sterilization between ejections is not a consideration with reference to this particular type of treatment and vaccination since it is used exclusively as a scratch vaccinator, the serum being applied to the scratch projected on the skin of the animal by the point of the needle from which the serum flows.

We claim:

1. A vaccinating instrument comprising a barrel, a nozzle secured in one end of the barrel, said nozzle having a bore tapering towards the free end thereof, a needle shank operating through the barrel, a needle on one end of the shank, said needle being tapered corresponding to the taper of the bore of the nozzle and said shank adapted to be moved through the barrel adjusting the seating of the needle in the bore, controlling the rate of flow of vaccine from the barrel.

2. A vaccinating instrument comprising a barrel, a nozzle closing one end of the barrel, said nozzle having a tapered bore, a needle shank operating through the barrel, a needle at one end of the shank, said needle being tapered corresponding to the taper of the bore, said shank adapted to be adjusted varying the seating of the needle in the bore and controlling the rate of flow of vaccine from the barrel, and means for securing the shank in its positions of adjustment.

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