

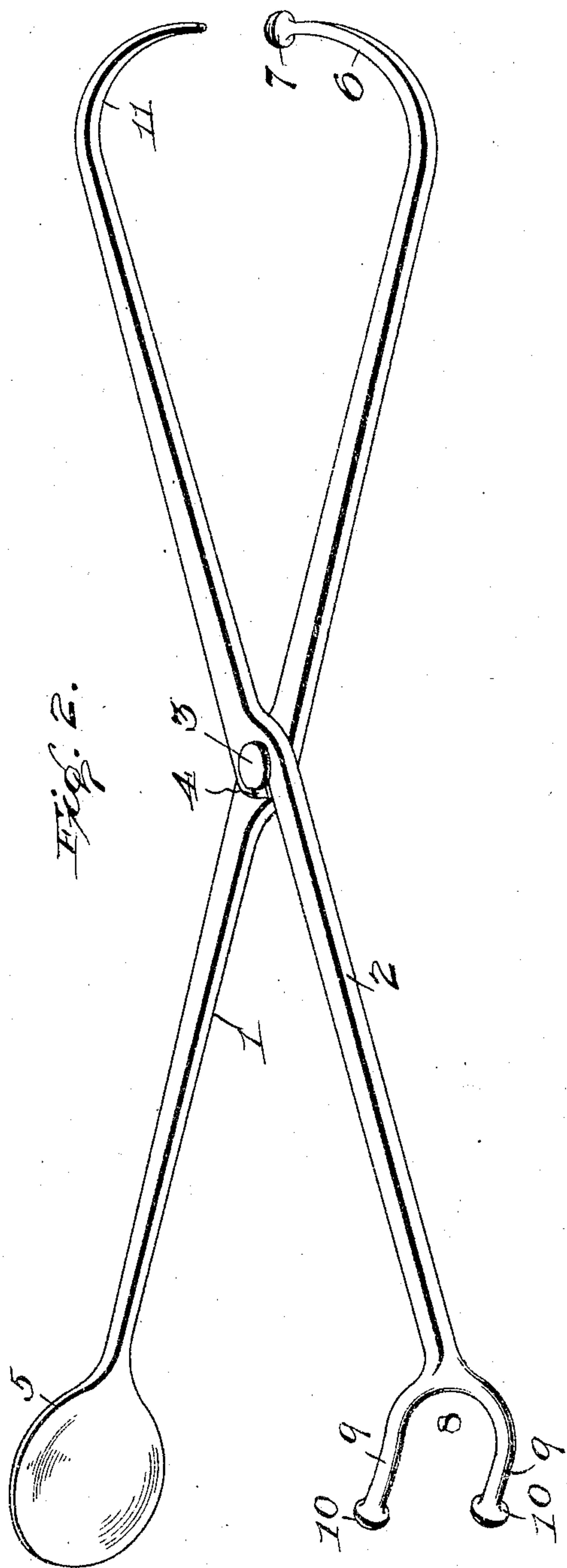
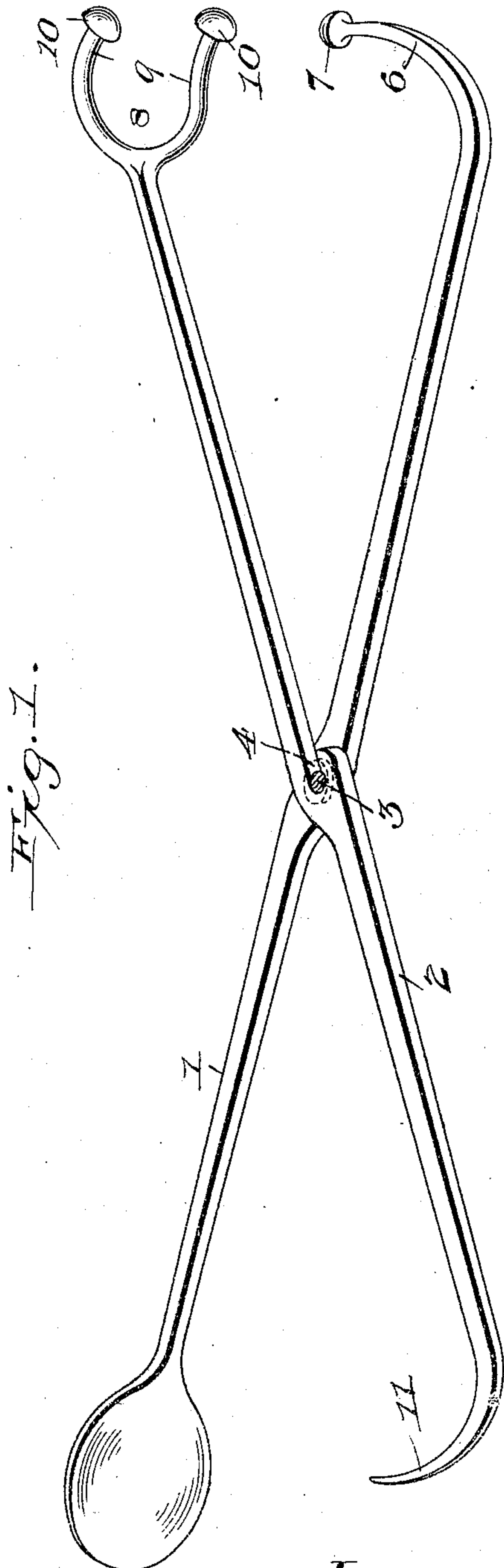
No. 778,062.

PATENTED DEC. 20, 1904.

I. O. MULLISON.  
FORCEPS.

APPLICATION FILED FEB. 5, 1904.

NO MODEL.



WITNESSES:

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## UNITED STATES PATENT OFFICE.

ISAAC O. MULLISON, OF SHENANDOAH, IOWA, ASSIGNOR OF ONE-HALF  
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## FORCEPS.

SPECIFICATION forming part of Letters Patent No. 778,062, dated December 20, 1904.

Application filed February 5, 1904. Serial No. 192,192.

*To all whom it may concern:*

Be it known that I, ISAAC O. MULLISON, a citizen of the United States, residing at Shenandoah, in the county of Page and State of Iowa, have invented a new and useful Forceps, of which the following is a specification.

This invention relates to veterinary obstetrical forceps; and it consists in an improved type of forceps designed primarily for use in delivering swine of their young.

The principal object of the invention is to provide, in forceps of the type specified, an improved construction of the forceps members whereby an unusually large number of different arrangements of the gripping elements may be obtained to adapt the forceps for use in delivering the young when disposed in any possible position in utero and presenting the head, shoulders, or rump at the os uteri.

In attaining the object mentioned and others which will hereinafter appear I make use of the improved veterinary obstetrical forceps hereinafter fully described and claimed, and illustrated in a preferred form of embodiment in the accompanying drawings, it being understood that changes in the exact forms and proportions of the parts may be made within the scope of the claims without departing from the spirit of the invention or sacrificing any of its advantages.

In the drawings, Figure 1 is a perspective view of the forceps with the elements arranged in one way. Fig. 2 is a view of the forceps with the members arranged in the reverse way.

Referring to the drawings, in which corresponding parts are designated by similar characters of reference, 1 and 2 designate the two members comprising the forceps, one of said members bearing a headed stud 3 on its upper surface substantially midway between its ends and the other presenting a deep notch 4 for the reception of the stud 3. The stud forms the pivot connecting the two members, and the notch permits the two members to be instantly connected or separated, as need be.

The member 1 of the forceps is provided at one end with a shallow spoon bowl 5, which is almost circular, and at the other end the member 1 has a bent terminal portion 6, provided on the end with a rounded knob 7, the bend of the terminal 6 and the concavity of the spoon being oppositely disposed. The spoon 5 is of special utility by forcing aside protruding tissue which would tend to prevent delivery, thereby presenting to the fetus a smooth and unobstructive passage.

The forceps member 2 is provided at one end with a fork 8, having bent tines 9, each provided with a knob 10 on its tip, and the opposite end of the member is formed into a hook 11, having a blunt tip and being bent oppositely to the tines of the fork 8.

By arranging the members of the forceps in the two ways illustrated in the drawings four different combinations of gripping elements are presented, as will be readily seen on inspection of the drawings. Each of the four combinations is of special utility under certain circumstances, which need not be detailed here, as they are well known to all skilled veterinary surgeons.

In using the forceps the members are inserted singly, and they are then connected by means of the stud and notch provided for that purpose. The forceps having been properly applied and the members connected, the delivery is effected in the usual manner.

I claim as my invention—

A veterinary obstetrical forceps comprising a pair of separably-connected members, one having a spoon bowl at one end and a hook at the other end, and the other member having a fork at one end and a hook at the other.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ISAAC O. MULLISON.

Witnesses:

ELLIS TUCKER,  
A. F. MOORE.