

No. 875,967.

PATENTED JAN. 7, 1908.

C. TIETZ.
VETERINARY SURGICAL FLOAT.
APPLICATION FILED AUG. 12, 1907.

Fig. 1.

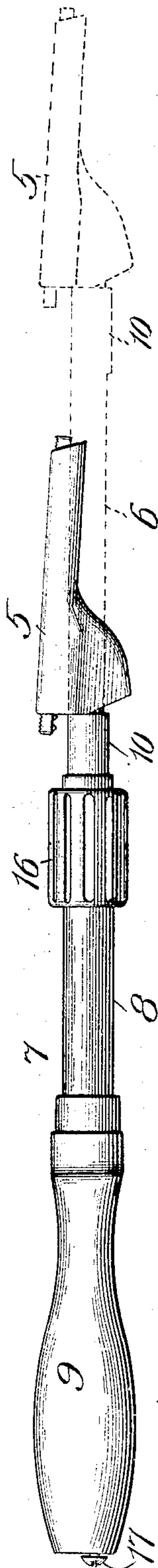


Fig. 2.

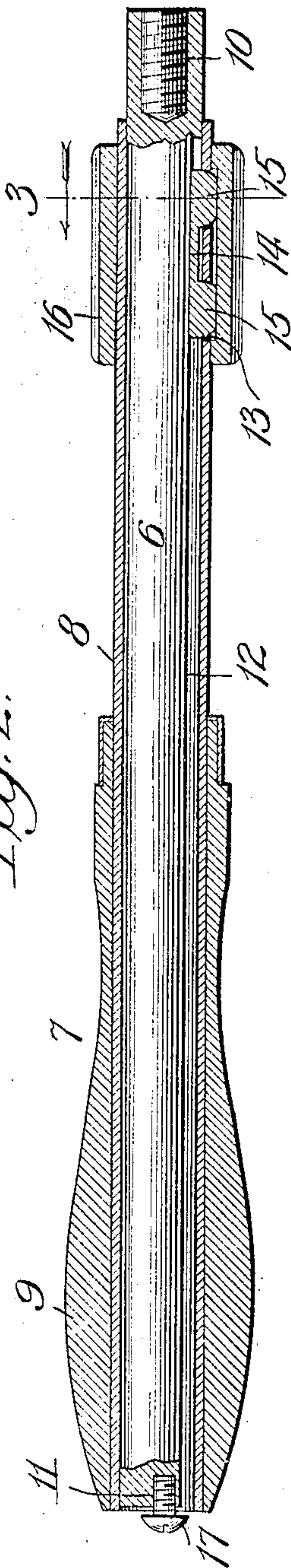


Fig. 4.

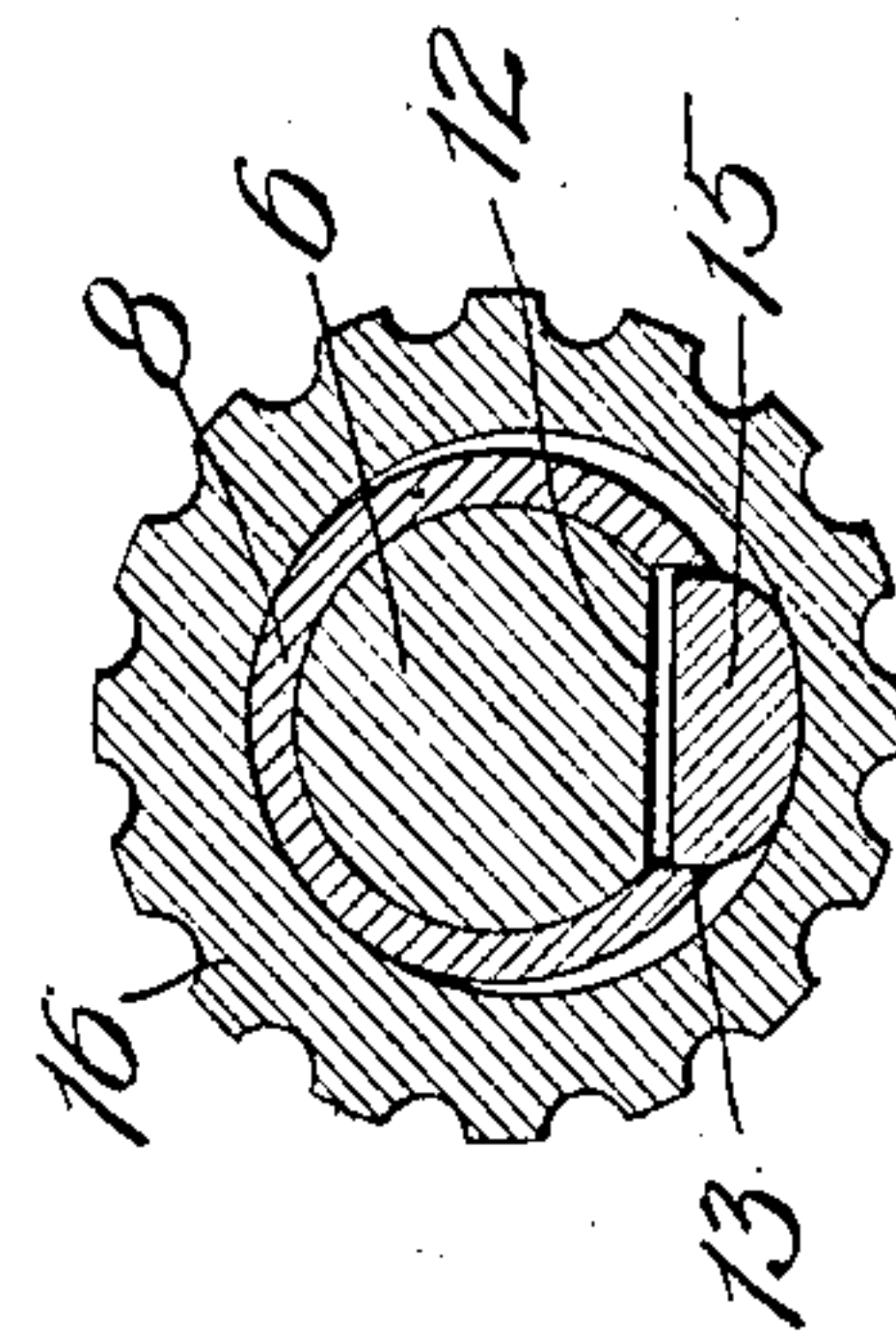
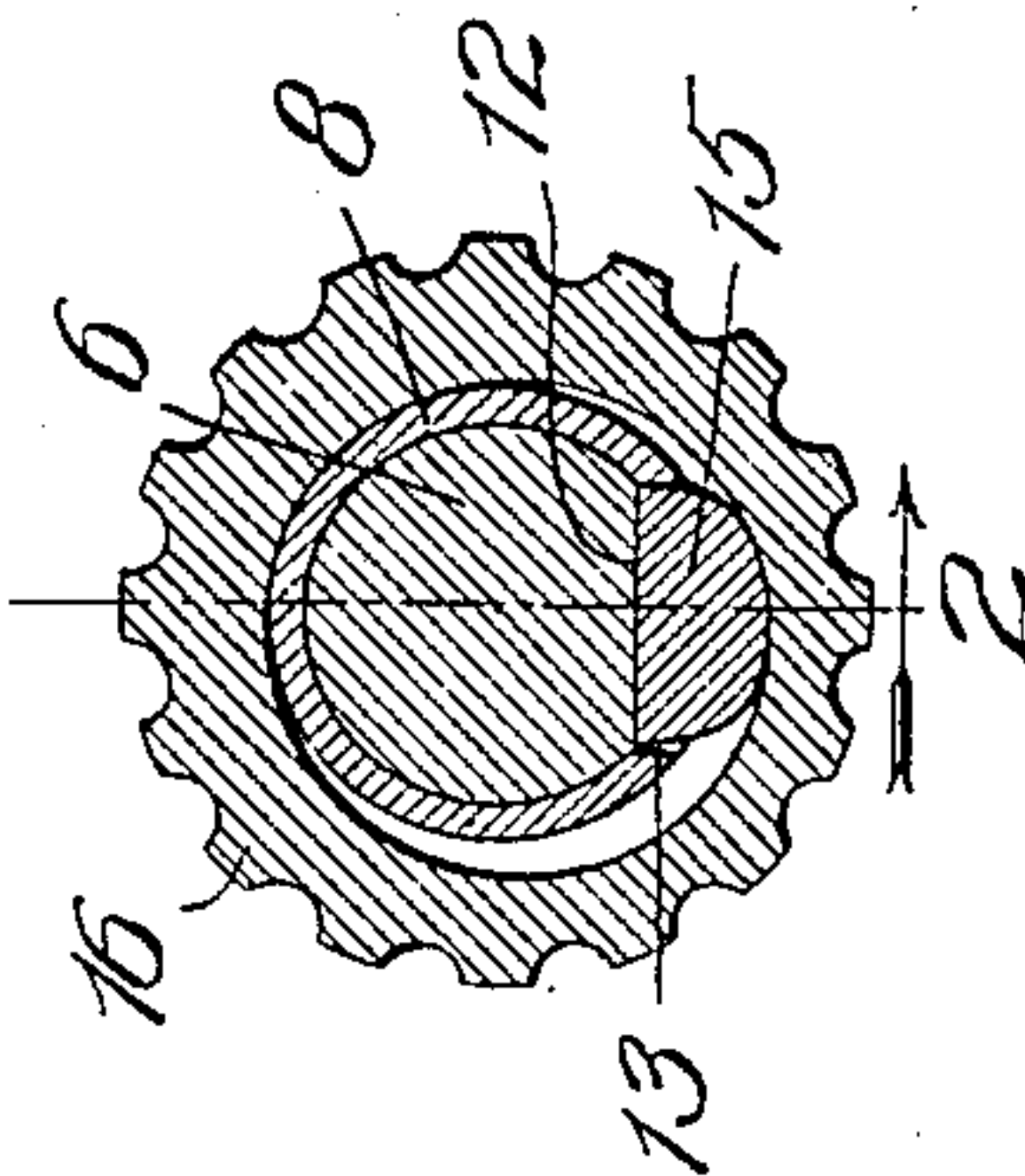


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES TIETZ, OF CHICAGO, ILLINOIS, ASSIGNOR TO SHARP & SMITH, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

VETERINARY SURGICAL FLOAT.

No. 875,967.

Specification of Letters Patent.

Patented Jan. 7, 1908.

Application filed August 12, 1907. Serial No. 388,109.

To all whom it may concern:

Be it known that I, CHARLES TIETZ, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Veterinary Surgical Floats, of which the following is a specification.

My invention relates to an improvement in the variety of veterinary surgical floats exemplified in United States Letters Patent dated June 1, 1902, and numbered 703,869; and it relates more particularly to an improved construction of the extensible and contractible handle, for adapting the rasp to be conveniently applied to the rear and front teeth in the animal's mouth, whereby adjustment of the handle and effectual locking thereof in adjusted position may be readily accomplished.

In the accompanying drawing, Figure 1 shows my improved float by a view in side elevation, with the stem having the rasp-head upon it represented in extended condition by dotted lines; Fig. 2 is an enlarged longitudinal section of the handle taken at the line 2 on Fig. 3 and viewed in the direction of the arrow, and Figs. 3 and 4 are sections taken at the line 3 on Fig. 2 and viewed in the direction of the arrow, respectively showing the stem in locked and unlocked condition.

The rasp-holder, indicated at 5, forming a part of the implement, and which may involve any desired construction, such as that set forth in the aforesaid patent, is screwed upon one end of the stem 6 of the handle 7. This handle consists of a tubular section 8 having upon it a gripping enlargement 9, preferably formed of wood, and the stem 6 telescopically engaging with the tube. The stem shown is a cylindrical metal bar containing in its forward end a threaded socket 10 to receive a screw on the end of the holder 5, and provided in its opposite end with a threaded socket 11 for the purpose hereinafter explained. The stem is flattened along one side, as shown at 12. In the outer-end portion of the tube are formed two alining openings 13, though my invention contemplates the employment of one or more such openings. A plate 14 affords a bearing inside the tube in which it is prevented from dislodgment by a button-shaped projection 15, one for each opening 13, projecting through such opening. The stem fits telescopically within the tube with its flattened side against

the plate 14 to bind it in place. On the tube is provided, to work against the projection 15, as and for the purpose hereinafter explained, a short sleeve 16, shown to be longitudinally corrugated externally to facilitate gripping it, and having its bore circumferentially eccentric to render the internal surface of the sleeve a cam.

To assemble the parts, the sleeve 16 is first applied to the tube about the openings 13 and the expanded section of its inner surface is made to coincide with the buttons 15 (Fig. 4) to enable them to project further through the openings than when the shallower surface of the interior of the sleeve coincides with them (Fig. 3). When the buttons thus project to their full extent the stem 6 may be readily introduced into the tube with its flat side passing over the inner surface of the plate 14, and with the parts in that relation the stem may be freely moved longitudinally in the tube to adjust the length of the handle of the implement. When so adjusted the stem must be firmly secured in place, and this tightening may be conveniently effected by turning the sleeve part way about to cause its inner cam-surface to engage the projections 15 and force them inwardly, whereby the bearing-plate is pressed against the flattened surface of the stem to bind it. Obviously, by reversibly turning the sleeve to bring its wider inner surface coincident with the projections 15 the stem is freed to permit its free withdrawal from or insertion into the tube for the handle-adjusting purpose. To prevent entire withdrawal of the stem in adjusting its extent of protrusion beyond the inner end of the tube a stop-screw 17 is inserted into the socket 11 to cause the head of the screw to encounter the end of the bearing plate 14 when the predetermined extent of the withdrawal has been attained.

What I claim as new and desire to secure by Letters Patent, is:—

1. In a veterinary surgical float, the combination with a rasp-head, of an adjustable handle comprising a tube provided with a lateral opening, a bearing-plate in the tube having a projection protruding through said opening, a stem telescopically fitting in said tube to be engaged by said plate, and a sleeve rotatably fitting about the tube and provided with an inner cam-surface to engage said projection, for the purpose set forth.

2. In a veterinary surgical float, the com-

5 bination with a rasp-head, of an adjustable handle comprising a tube provided with a lateral opening, a bearing-plate in the tube having a projection protruding through said opening, a stem telescopically fitting in said tube and having a flattened side engaged by said plate, and a sleeve rotatably fitting about the tube and provided with an inner cam-surface to engage said projection, for
10 the purpose set forth.

3. In a veterinary surgical float, the combination with a rasp-head, of an adjustable handle comprising a tube provided with alin-

ing lateral openings, a bearing-plate in the tube having projections protruding through 15 said openings, a stem telescopically fitting in said tube and having a flattened side engaged by said plate, a stop on said stem, and a sleeve rotatably fitting about the tube and provided with an inner cam-surface to en- 20 gage said projections, for the purpose set forth.

CHARLES TIETZ.

In presence of—

A. U. THORIEN,
J. H. LANDES.