

No. 897,066.

PATENTED AUG. 25, 1908.

T. J. DAVIS.
CLEVIS.

APPLICATION FILED DEC. 3, 1907.

Fig. 1.

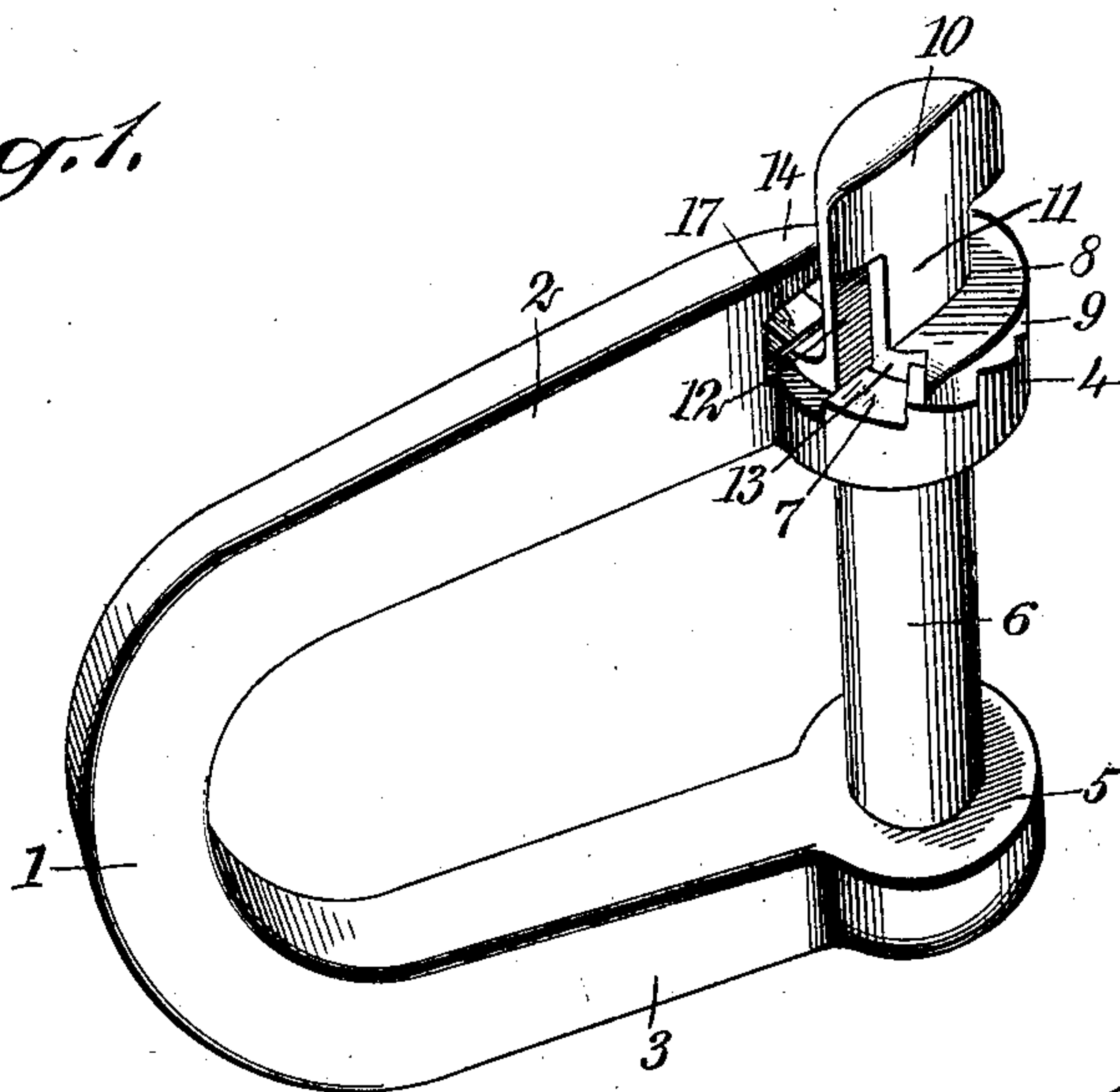


Fig. 2.

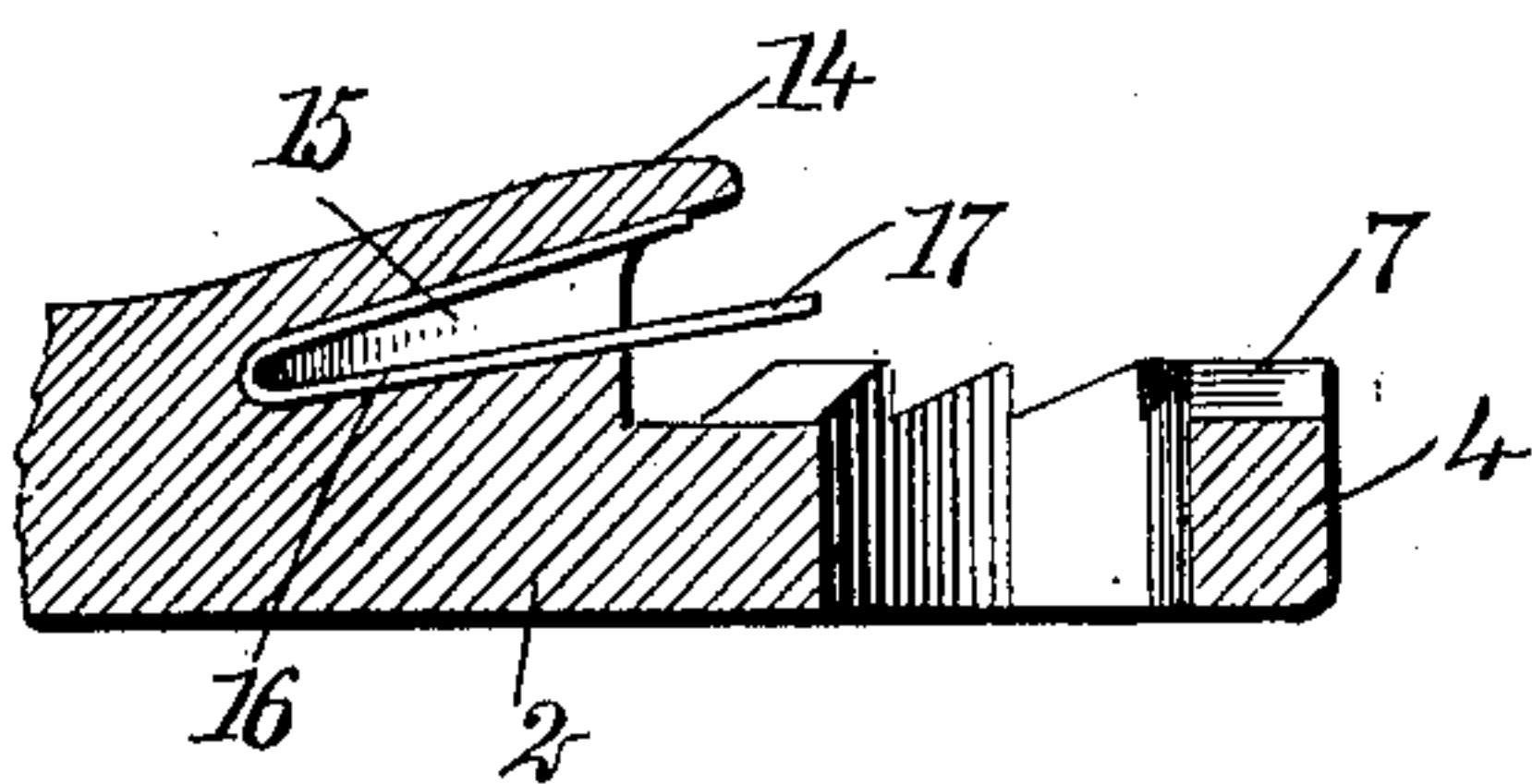
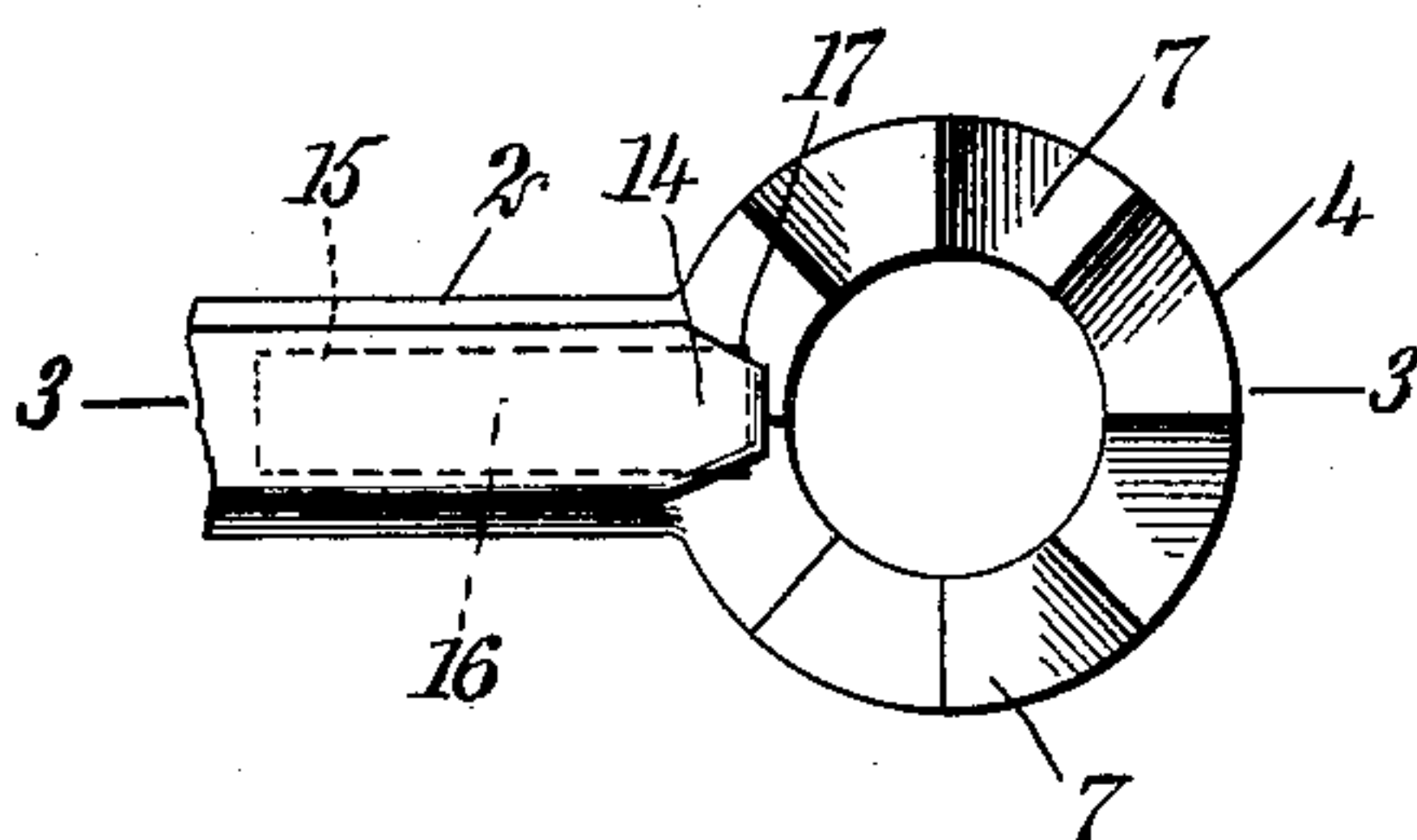


Fig. 3.

Fig. 4.

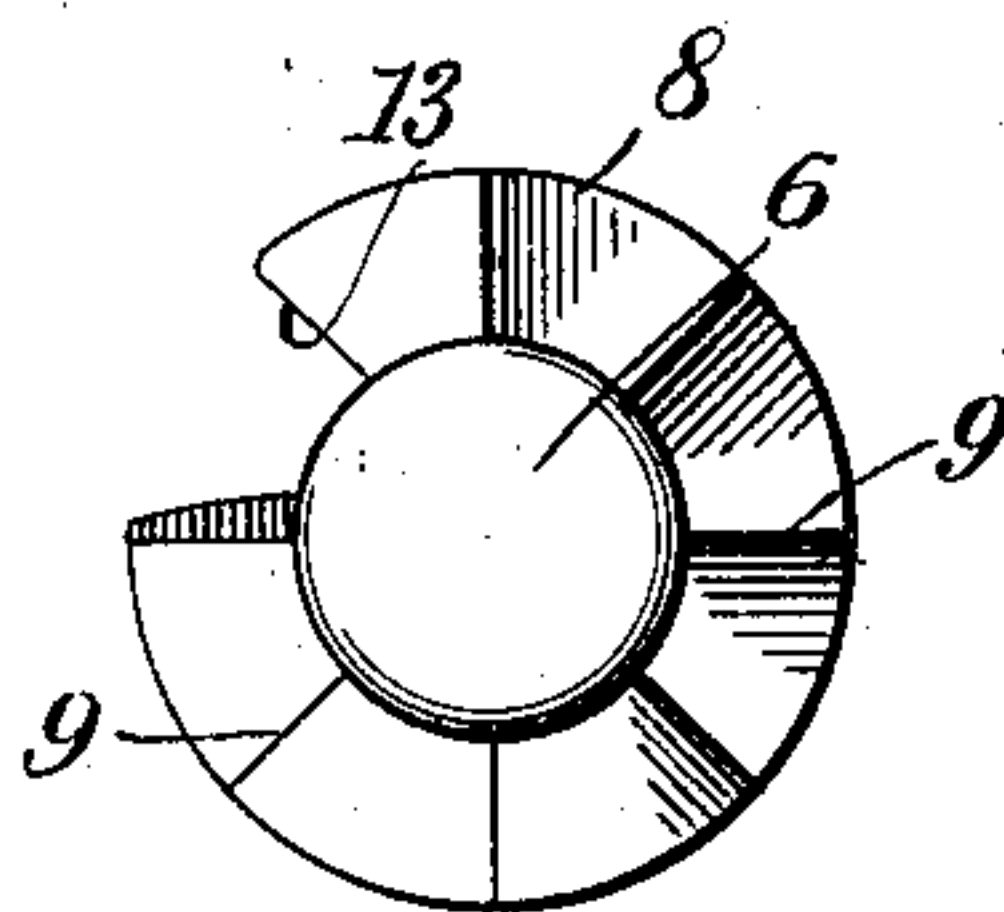
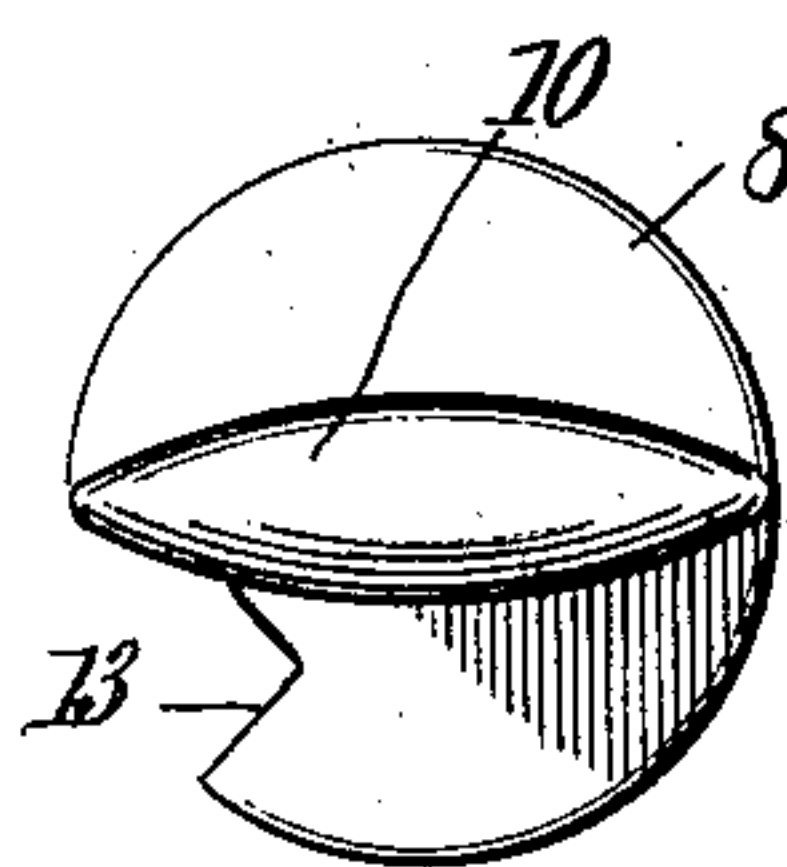
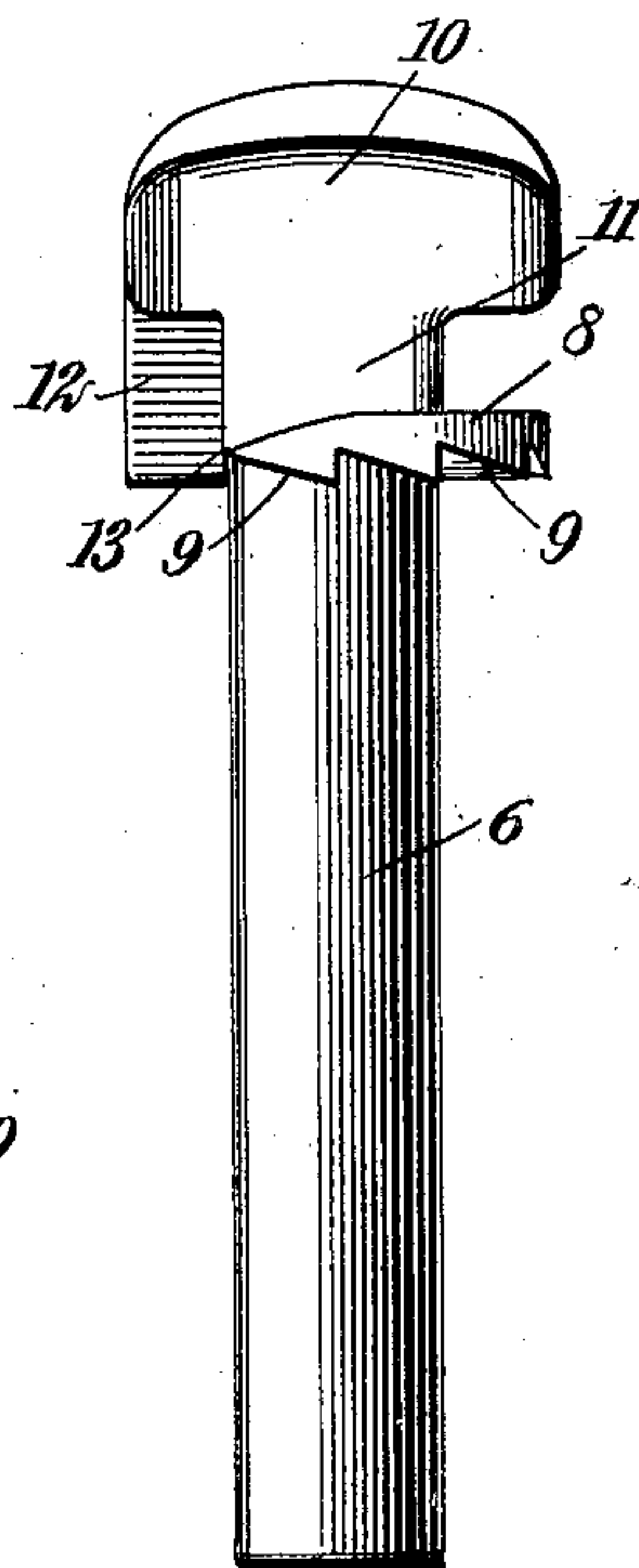


Fig. 5.

Fig. 6.



WITNESSES

Geo. W. Taylor
John K. Brachvogel

INVENTOR

Thomas J. Davis

BY

Mum & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

THOMAS JEFFERSON DAVIS, OF HARDING, SOUTH DAKOTA, ASSIGNOR OF ONE-THIRD TO
FLOYED C. COOK, OF HARDING, SOUTH DAKOTA.

CLEVIS.

No. 897,066.

Specification of Letters Patent.

Patented Aug. 25, 1908.

Application filed December 3, 1907. Serial No. 404,910.

To all whom it may concern:

Be it known that I, THOMAS JEFFERSON DAVIS, a citizen of the United States, and a resident of Harding, in the county of Butte and State of South Dakota, have invented a new and Improved Clevis, of which the following is a full, clear, and exact description.

This invention relates to clevises, and more particularly clevises used in connection with plow beams, whiffletrees, drags and the like.

The object of the invention is to provide a simple, strong and inexpensive clevis having a removable clevis pin, which can be easily detached or placed in position, and in which the pin is resiliently held in position to lock it against accidental displacement.

The invention consists in the construction and combination of parts to be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which

Figure 1 is a perspective view of the clevis; Fig. 2 is a plan view showing a part of one of the clevis arms with the pin removed; Fig. 3 is a longitudinal section on the line 3—3 of Fig. 2; Fig. 4 is a plan view of the clevis pin; Fig. 5 is an inverted plan view of the clevis pin; and Fig. 6 is a side elevation of the same.

Before proceeding to a more detailed explanation of my invention, it should be understood that the clevis can be used for any purpose for which devices of this character are generally employed.

The principal feature of my invention consists in the means for locking the clevis pin against accidental displacement without interfering with the easy and rapid manipulation of the pin to permit the mounting in position or the removal of the clevis.

Referring more particularly to the drawings, 1 represents a clevis bow, which may be of any common or preferred form and has arms 2 and 3. The arms 2 and 3 have enlargements 4 and 5 respectively, at the ends, through which are formed registering openings adapted to receive the clevis pin 6. The enlargement of the arm 2 has the upper face provided with notches or ratchet teeth 7. The pin 6 has an annular flange or collar 8 rigid therewith, and provided with notches

or ratchet teeth 9, inclined in the opposite direction to the teeth 7. At the side of the flange 8 remote from the teeth 9, the pin has a flattened head 10 by means of which the pin can be manually operated. The head 10, is joined to the pin by means of a constricted neck 11, at one side of which is a wing 12, connecting the head 10 and the flange 8. At one side of the wing 12, the flange 8 has a cut-away portion 13, for the purpose which will appear hereinafter.

The arm 2 is laterally extended and is provided with a tongue 14, extending over the notched face of the enlargement 4, toward the opening therethrough. A recess 15, preferably of tapered form, is provided under the tongue 14 and receives a V-shaped spring 16, one end, 17, of which projects from the recess, over the enlargement 4.

The pin can be inserted into the openings of the enlargements 4 and 5 in the usual manner, the cut-away portion 13 permitting the flange 8 to pass beyond the tongue 14 and the end 17 of the spring, the ratchet faces engaging to hold the pin against rotation in one direction, in the usual manner. By rotating the pin, the flange 8 passes underneath the spring end 17 and the tongue 14 until the wing 12 engages the tongue and prevents the further rotation of the pin. Thus, the pin is locked in position against rotation in either direction, and is held in position in the openings by the tongue 14, which engages the flange 8 to limit the movement of the pin in a longitudinal direction. To release the pin, the latter is drawn from the openings, as far as the tongue permits. This distance is sufficient to permit the disengagement of the ratchet faces, so that the pin can then be again rotated until the cut away portion 13 permits the complete withdrawal of the pin from the openings, the spring end 17 and the tongue passing through the cut-away portion.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent:—

1. A clevis, comprising arms, and a pin for removably connecting said arms, said pin and one of said arms being formed to permit the rotation of said pin in one direction only when said pin is in a predetermined position, one of said arms having resilient means for holding said pin in the predetermined position, one of said arms having means for pre-

venting the rotation of said pin in an opposite direction, said pin being formed to permit its disengagement from said arms when said pin is in a further predetermined position.

2. A clevis, comprising arms, a pin removably carried by said arms, said pin and one of said arms having notched faces adapted to engage to hold said pin against rotation in one direction, and a stop upon one of said arms and adapted to engage said pin to prevent the rotation of the same in the opposite direction, said faces being resiliently held in engagement.

3. A clevis, comprising arms, a pin removably carried by said arms, said pin having a head and a notched face, one of said arms having a notched face adapted to engage said notched face of said pin to lock said pin against rotation in one direction, one of said arms having a tongue adapted to engage said head to lock said head against rotation in the opposite direction, said pin being formed to permit the longitudinal movement of said pin with respect to said tongue in one position of said pin, and resilient means for holding said faces in engagement.

4. A clevis, comprising arms having registering openings, a pin removably arranged in said openings, said pin and one of said arms having ratchet faces adapted to engage to hold said pin against rotation in one direc-

tion, one of said arms having a tongue adapted to engage said pin to hold the same against rotation in the opposite direction, said pin having a cut-away portion to permit said pin to pass beyond said tongue, and resilient means for holding said faces in engagement.

5. A clevis, comprising arms having registering openings, a pin having a head and a flange presenting a ratchet face, said pin being removably arranged in said openings, one of said arms having a ratchet face adapted to engage said ratchet face of said pin to hold the same against rotation in one direction, one of said arms having a tongue adapted to engage said flange to hold said pin within said openings, said flange having a cut-away portion to permit said pin to be moved beyond said tongue, said head having a wing adapted to engage said tongue to hold said pin against rotation in the opposite direction, and a spring for holding said pin in position such that said ratchet faces are in operative engagement.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS JEFFERSON DAVIS.

Witnesses:

H. G. McCoid,
F. E. Stokes.