

W. H. KLEMM.
 COMBINED CLOSURE AND LOCKING MEANS.
 APPLICATION FILED MAR. 15, 1910.

969,881.

Patented Sept. 13, 1910.

FIG. 1.

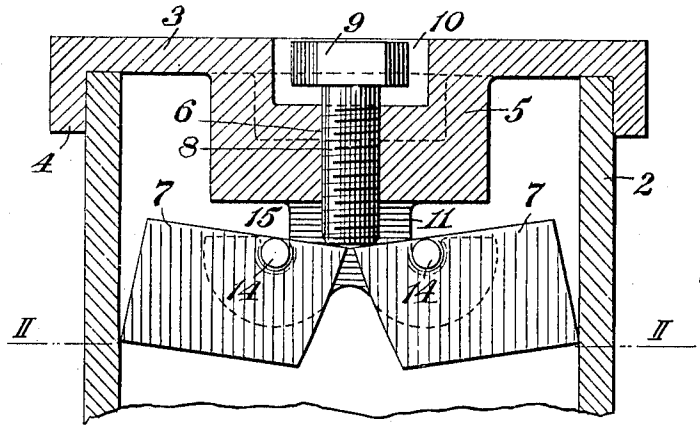


FIG. 2.

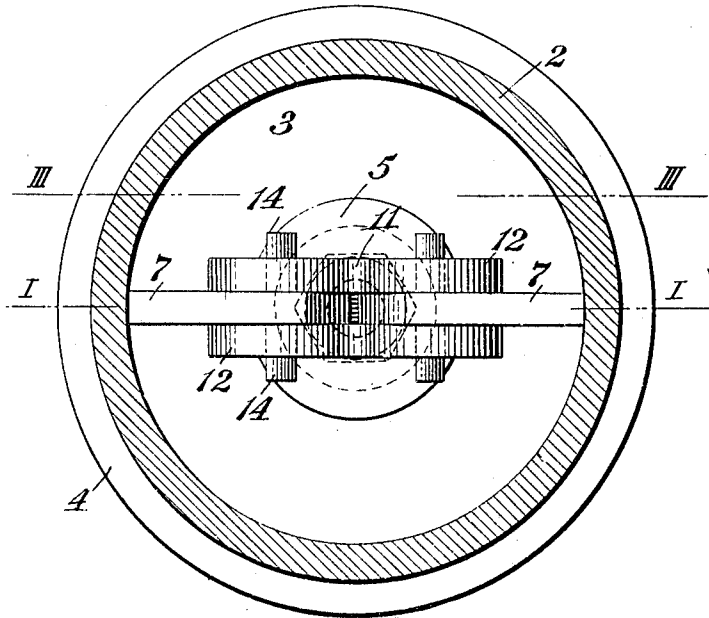
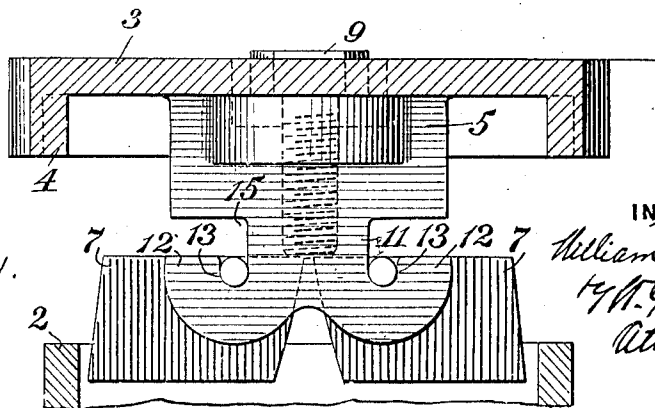


FIG. 3.



WITNESSES,
J. E. Saiter.
A. C. Way

INVENTOR,
William H. Klemm
 by *H. C. Doolittle*
 Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM H. KLEMM, OF PITTSBURG, PENNSYLVANIA.

COMBINED CLOSURE AND LOCKING MEANS.

969,881.

Specification of Letters Patent. Patented Sept. 13, 1910.

Application filed March 15, 1910. Serial No. 549,477.

To all whom it may concern:

Be it known that I, WILLIAM H. KLEMM, a resident of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Combined Closure and Locking Means, of which the following is a specification.

My invention relates to a combined locking cap or closure; and an object of the present invention is to provide a new and improved combined cap or closure and locking means designed for closing or covering the ends of pipes, "stop-boxes," and the like, and for various kinds of receptacles requiring a locked closure.

In the accompanying drawing, which illustrates an application of my invention, Figure 1 is a central vertical sectional view of a combined cap and locking means embodying my invention; the section being taken on line I—I of Fig. 2; Fig. 2 a part sectional view and a part plan taken on line II—II of Fig. 1 looking in the direction of the arrow; and Fig 3, a part sectional view and a part elevational view taken on line III—III of Fig. 2, showing the cap elevated from the structure which it is designed to close.

As illustrated, I have shown my invention in connection with an end of a metallic pipe or "stop-box" 2, so generally employed in cities for inclosing the ends of water and gas pipes.

While my invention is particularly adapted for use in connection with "stop-boxes" it is of course evident that it may be used for closing other pipe structures and various other structures.

3 designates the cap proper formed, as shown, with an annular depending flange 4. Formed integral with the cap proper is a centrally disposed part or member 5. Member 5 is formed with a threaded opening 6 adapted to receive means for moving two pivotally mounted locking members 7. The means for moving said locking-members as shown, consist of a screw bolt 8 having its head 9 adapted to fit down in a counter sunk portion 10 of the cap. The lower portion of member 5 is divided and each divided portion comprises a straight vertically extending part or portion 11 and two curved members or parts 12. Each of the curved members 12 is formed with an open curved pin-bearing or seat 13, two

of said bearings or seats being adapted to receive a pin 14 projecting outwardly from the sides of one of the members 7 and the other two bearings being adapted to receive and support a similar pin of the other locking-member. Said members 7 are thus each loosely and detachably mounted by their respective pins 14, in the bearings 13, with their inner upper ends located directly below and in the path of travel of the vertically movable threaded bolt 8.

Fig. 1 shows the parts in locked position with the bolt 8 bearing down upon the inner upper ends of the locking-members and the lower outer ends in engagement with the structure to which the device is applied. Fig. 3, shows the bolt slightly raised from the position of Fig. 1, and the members 7 in unlocked position.

The space between the divided portion of member 5 is sufficient to permit each member 7 to be readily placed in position when assembling the parts and the space indicated by the numeral 15 permits the pins to be laterally inserted into position in their respective bearings.

The parts are so proportioned and arranged that should the screw bolt be entirely removed from the cap or closure the locking-members would not become detached.

In structures of the class to which my invention relates it is very important that the movable locking-members shall be of such construction that they will not be affected by rust. By means of the open pin-bearings and by providing the locking-members with pins adapted to be loosely and detachably mounted in said bearings, the locking-members are prevented from becoming bound or tight.

What I claim is:

1. The combination with a cap or closure having a depending member formed with a threaded opening and with open pin-bearings, of locking members each provided with a projecting pin loosely and detachably mounted in the open pin-bearings, and a threaded bolt in engagement with the locking-members and coacting with the depending member for moving the locking-members.

2. The combination with a cap or closure having a depending member formed with a threaded opening and having its lower portion divided to form two spaced-members each having two curved open pin-bearings,

of locking-members each provided with a projecting pin loosely and detachably mounted in the pin-bearings, and a threaded bolt directly in engagement with the locking-
5 members and coacting with the depending member for moving the locking-members.

3. The combination with a cap or closure having a depending member formed with a threaded opening and its lower portion divided to form two spaced-members, each of
10 the spaced-members formed with an open seat, of a locking-member movable between the space-members and having a pin pro-

jecting from two faces thereof and located in the open seats of the respective spaced- 15 members, and a threaded bolt in engagement with the locking-member and coacting with the depending member for moving the locking-member.

In testimony whereof I affix my signature 20 in presence of two witnesses.

WILLIAM H. KLEMM.

Witnesses:

W. G. DOOLITTLE,
A. C. WAY.