

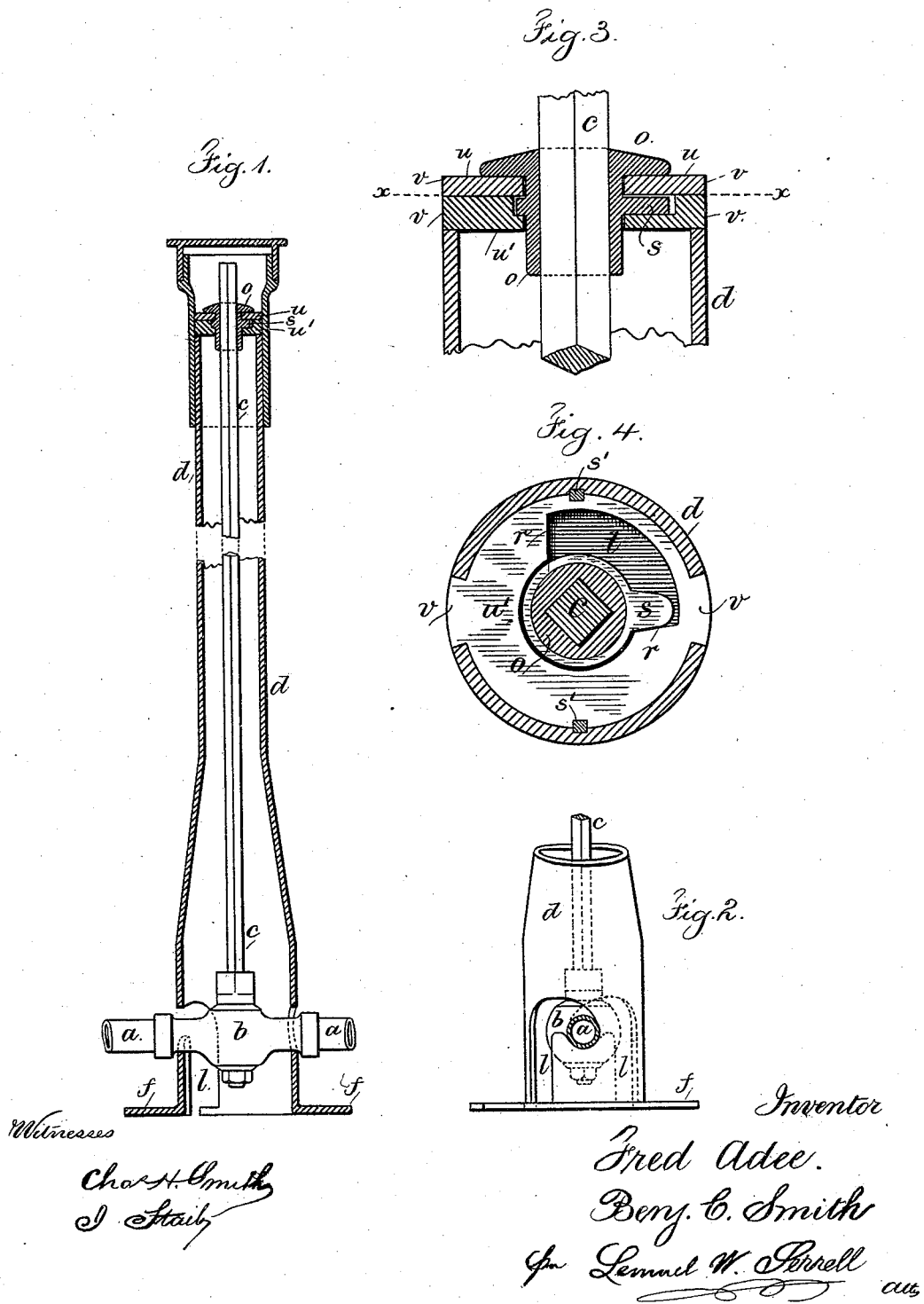
(No Model.)

F. ADEE & B. C. SMITH.

STOP COCK BOX.

No. 343,416.

Patented June 8, 1886.



UNITED STATES PATENT OFFICE.

FRED ADEE AND BENJAMIN C. SMITH, OF BROOKLYN, ASSIGNORS TO FRED ADEE & CO., OF NEW YORK, N. Y.

STOP-COCK BOX.

SPECIFICATION forming part of Letters Patent No. 343,416, dated June 8, 1886.

Application filed July 3, 1885. Serial No. 170,653. (No model.)

To all whom it may concern:

Be it known that we, FRED ADEE and BENJAMIN C. SMITH, of Brooklyn, in the county of Kings and State of New York, have
5 invented an Improvement in Stop-Cock Boxes, of which the following is a specification.

This invention is an improvement upon that set forth in Letters Patent No. 311,265, granted January 27, 1885, to Benjamin C.
10 Smith, and is for the purpose of connecting the stop-cock and pipe with the bottom of the box, and for holding the check and turning rod or key in their proper relative position at the upper end of the tubular box.

15 In the drawings, Figure 1 is a vertical section of the stop-cock and box. Fig. 2 is an elevation of the lower part of the box at right angles to Fig. 1. Fig. 3 is a section in larger size of the check and rings at the upper part
20 of the box; and Fig. 4 is a sectional plan view of the same at the line *x x*, Fig. 3.

The cock *b*, pipe *a*, connected to the same, and the rod or key *c* are of ordinary construction. The tubular box *d*, through which the
25 key *c* passes, is of any desired length or size, and the base thereof is enlarged and hollow, and it is preferably provided with horizontal flanges *f*, that prevent the box being raised by the action of frost. In this base there are
30 vertical slots *l*. These are not central, but are toward one side of the base, and the upper ends of these slots are nearly semicircular or hook-shaped.

In applying this box the pipes *a* and cock *b*
35 are connected in any usual manner, after which the box *d* is slipped down over the key *c*, and the slots *l* allow the box to pass down at each side of the cock *b*, the tubular portions of the cock being passed into the lower ends of the
40 hook-shaped portions of the slots by a partial rotation of the box. This causes the stop-cock box to form a support for the cock and its pipes, and secures the permanent connection of the parts together, especially after the earth
45 is filled in around the pipes and stop-cock box. At the upper end of the key *c* there is a check-piece, *o*, with a square hole to receive the said rod or key *c*. This check-piece has a projecting arm, *s*, at one side,
50 and it is between the two guide-rings *u* and *u'*, one or both of which guide-rings have projecting lugs *v* passing into notches or vertical slots at the upper end of the box *d*.

Upon one of the rings *u* or *u'* there are stops
r, that limit the movement of the arm *s* and
55 check *o*. We have shown these stops *r* as formed by the metal at the ends of a recess, *t*, made in the ring *u'*, which recess is of sufficient depth to receive the arm *s* and of a
60 length to allow the arm *s* to be turned only the distance required in giving a quarter-rotation to the key or rod *c* in opening or closing the cock. It is to be understood that these parts are so constructed that when put
65 together the arm *s* of the check will occupy the proper position in relation to the stop-cock *b*.

The rings *u* and *u'* are preferably of malleable iron. The pins *s'*, driven into notches
70 in the edges of the rings *u u'* and into grooves in the inner surfaces of the box, hold the rings securely in place, and the check is held between the rings, and is not liable to become lost; and it is preferable to cast the
75 check with cylindrical ends at top and bottom, to pass into holes in the respective rings *u u'*. This increases the length of the square hole through which the key passes.

We claim as our invention—

1. The stop-cock box having the base slot-
80 ted at *l*, the upper portion of the slots being hook-shaped for the reception of the tubular portions of the stop-cock, substantially as set forth.

2. The combination, with the stop-cock key
85 and tubular box, of a check having a projecting arm, two separate rings, one above and the other below the check, said rings passing into the upper end of the tubular box, and having
90 projections that pass into notches in the tubular box, substantially as set forth.

3. The combination, with the stop-cock box and the key, of a check upon the key having
95 a projecting arm, a separate ring having a stop for the arm of the check, and through which ring the cylindrical portion of the check passes, the ring being received into the stop-cock box and secured in place, substantially as set forth.

Signed by us this 27th day of June, A. D. 100
1885.

FRED ADEE.
BENJAMIN C. SMITH.

Witnesses:

GEO. T. PINCKNEY,
WALLACE L. SERRELL.