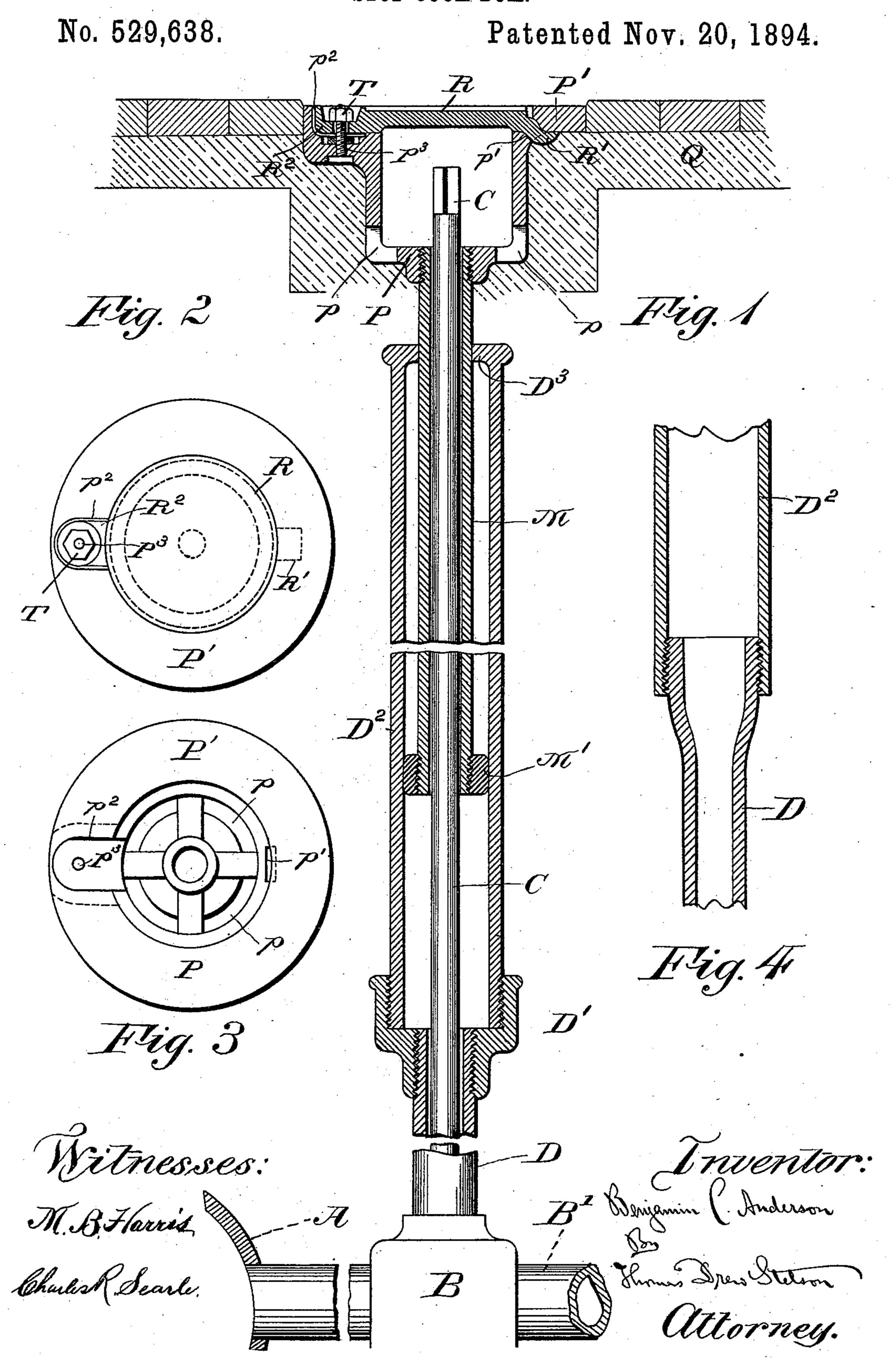
(No Model.)

B. C. ANDERSON.
STOP COCK BOX.



United States Patent Office.

BENJAMIN C. ANDERSON, OF BROOKLYN, NEW YORK, ASSIGNOR TO MELLENEY H. ANDERSON, OF SAME PRACE.

STOP-COCK BOX.

SPECIFICATION forming part of Letters Patent No. 529,638, dated November 20, 1894.

Application filed May 31, 1894. Serial No. 512, 977. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN C. ANDER-SON, a citizen of the United States, residing in Brooklyn, in the county of Kings and State 5 of New York, have invented a certain new and Improved Stop-Cock Box, of which the

following is a specification.

The improvement is in that class of devices fitted in the streets near the curbstone to fa-10 cilitate the turning off and on of the water from a street main to supply or cut off a building. Devices for this purpose have been long known and are much approved, which involve the principle of the telescopic tube. 15 The top piece which lies flush with or slightly sunk below the upper surface of the pavement can rise and sink freely, and is equipped with provision for securing it against access by any but the proper parties, and for! 20 attaining this important end with efficiency | in the larger tube, D2, from below before the 70 and economy. A pipe of small diameter, only sufficient to loosely inclose the operating rod, is rigidly fixed to this box and extends downward therefrom, and carries a nut or enlarge-25 ment at its lower end. A pipe of similar size is fixed to the stop cock below, and reaches upward therefrom, carrying on its upper end a suitable coupling which connects it to a pipe of sufficiently larger diameter to inclose 30 the enlarged foot of the upper pipe. The upper end of the large pipe is contracted so as to match loosely around the upper pipe.

The accompanying drawings form a part of this specification and represent what I con-35 sider the best means of carrying out the in-

vention.

Figure 1 is a central vertical section, a portion being broken away to contract the length. Fig. 2 is a plan view, showing the box in the 40 locked condition. Fig. 3 is a plan view of the box with the cover removed. Fig. 4 is a vertical section of a portion showing a modification.

Similar letters of reference indicate corre-45 sponding parts in all the figures where they

appear.

B is a cock or valve in a service pipe B' leading from the street main A to a building, (not represented,) and which it is the purpose 50 of the invention to serve.

C is a shaft of proper length, which is in effect a prolongation of the plug of the cock or of the stem of the valve, in case a screwvalve is used. The upper end of the shaft C lies sufficiently below the surface of the pave- 55 ment, and is squared so as to receive and allow the shaft to be turned by a wrench applied from above, in the obvious manner.

D is a tube loosely inclosing the lower and main portion of the shaft C. A coupling D' 60 connects this tube with a larger tube D², the upper end of which latter is formed with a

stout internal lip D³.

M is a tube of smaller diameter, loosely inclosing the upper portion of the shaft C. Its 55 lower end receives a nut M', which is permanently secured, and is of larger diameter than the interior of the internal lip D³. It will be understood that the tube M, M', is introduced latter is engaged with the coupling D'. The upper end of the tube M is tapped into the base of a box P, of cast iron or other suitable material, sunk in the pavement Q of the sidewalk, so that its upper edge is flush with or prefer- 75 ably a little below the level of the pavement. The box P is formed with holes p in its base which allow any water to be discharged into and absorbed by the adjacent earth.

The top of the box P is provided with a 80 flange P', the main portion of which is plane. This is properly sunk into and gives an efficient bearing on the flag-stones, or other material of the pavement. On one side just below the flange, is an aperture p'. On the 85 opposite side of the box is a notch p^2 accommodated by a depression of the flange sufficiently lower at that point, which depression has a properly shaped hole to receive a screw P³, having a stout head standing with its 90 point upward, confined by a thin binding nut received into the depression and extending upward through a sufficient hole in the arm R² of the cover R, its upper end receiving a nut T which constitutes the final locking 95 means for the cover.

R is a cover of proper size and form, equipped with a sufficiently stout projection R' adapted to engage in the aperture p', and having on its opposite edge a projection R² 100

of proper form to match in the rectangular notch p^2 , and also to receive the bolt P^3 and nut T, and allow the latter to be turned. The nut nearly fills a cavity in the upper face of 5 the arm R², and can only be opened by the agent of the water or gas department, who is the only party authorized to open the box. When he has removed the nut T that side of the cover can be lifted and the projection R'

10 can then be easily disengaged from the aperture p' and leave the box open to allow access for operating the shaft C. When this shaft has been properly turned to effect the required change in the condition of the cock, 15 the operator restores the parts to their places

and the water or gas will be supplied or cut off, as the case may be, until the box is again opened by the proper party, and some other

change is made.

My invention not only allows the box P and its attachments, including the pipe M and nut M' to be alike for all depths of main, but also allows the large pipe D² and the coupling D' to be also alike for all depths, and only re-25 quires the small pipe D and the shaft C to be varied in length to adapt the device for all

conditions ever occurring in practice. It also provides conveniently for assembling and

separation of the parts.

The bolt P³ and its binding nut, may be made by machinery with accuracy and perfection, and the properly shaped hole in the

arm R2 of the cover may be made by coring

without adding to the cost.

Modifications may be made without depart- 35 ing from the principle or sacrificing the advantages of the invention. I can vary the forms of the parts within wide limits.

I claim as my invention—

The box cover R having the arm R', adapted 40 to serve as a hinge, and the arm R² on the opposite edge recessed and perforated as shown, in combination with the box P having the flange P', with provisions as the aperture p' for receiving the arm R' and thus en- 45 gaging one side of the cover with liberty for the cover to turn thereon as a hinge, the lug or depression having a suitable aperture to receive a bolt and binding nut, and the bolt P³ with its head P⁴ and binding nut adapted 50 for holding such bolt strongly, rigidly and permanently in the depression without necessity for tapping the box, and with the removable nut T for confining and releasing the arm R² of the cover, all arranged for joint 55 operation substantially as herein specified.

In testimony that I claim the invention above set forth I affix my signature in pres-

ence of two witnesses.

BENJAMIN C. ANDERSON.

Witnesses:

H. A. STETSON, M. F. BOYLE.