

(No Model.)

J. BROUGHTON.
Casing for Street Washer Connections, Service Cocks,
and Hydrants.

No. 236,540.

Patented Jan. 11, 1881.

Fig. 1.

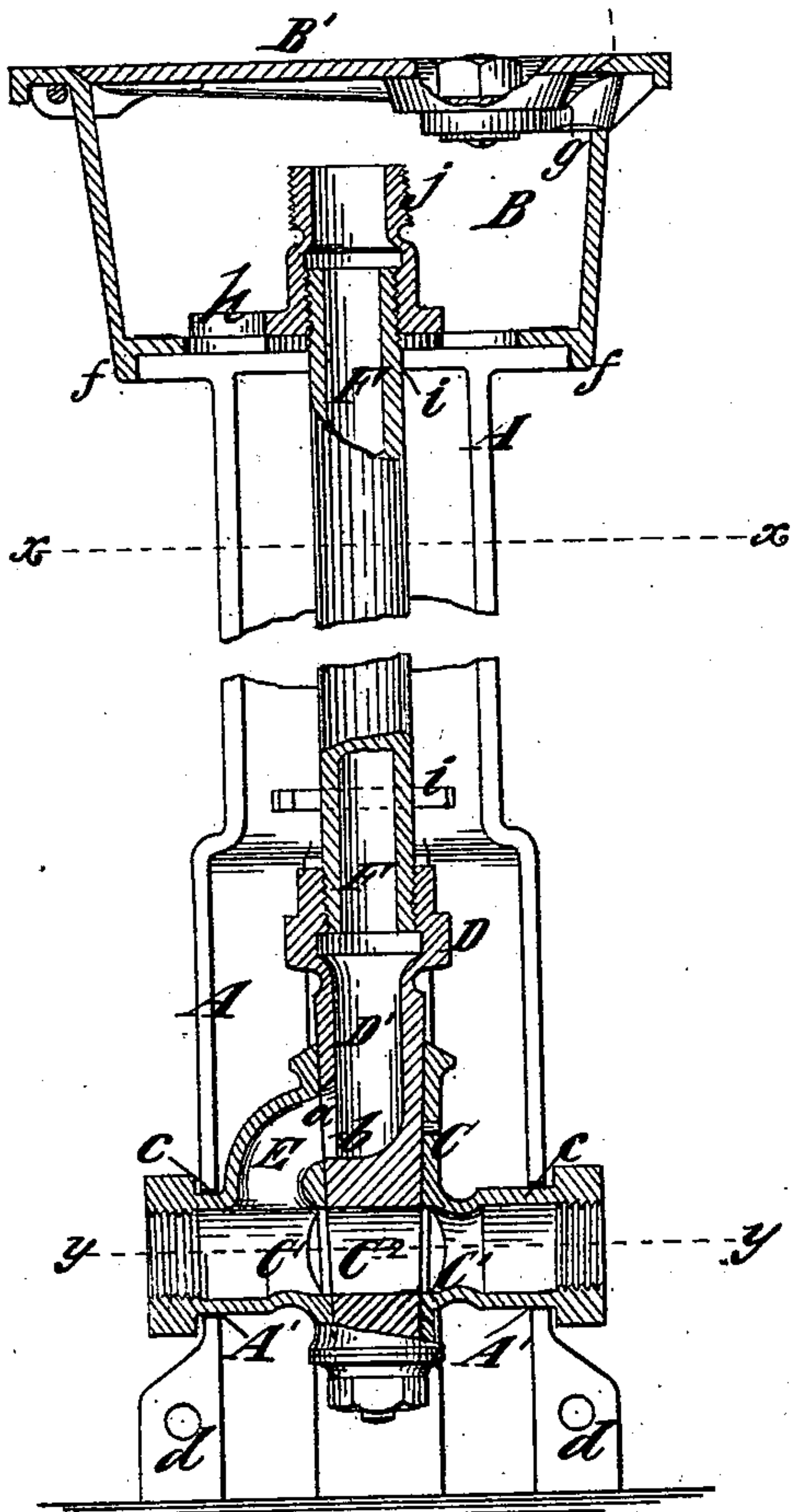


Fig. 2.

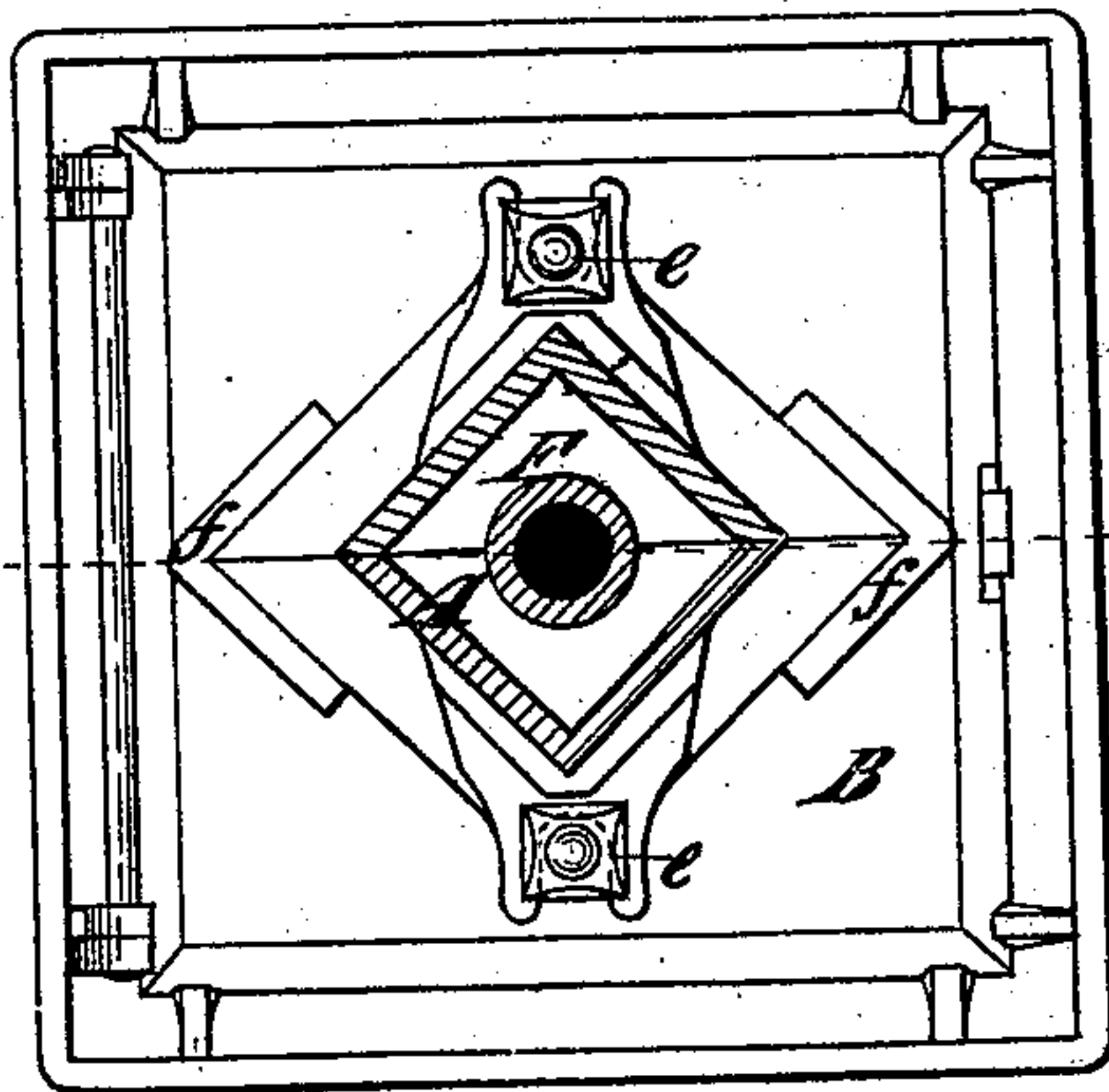


Fig. 4.

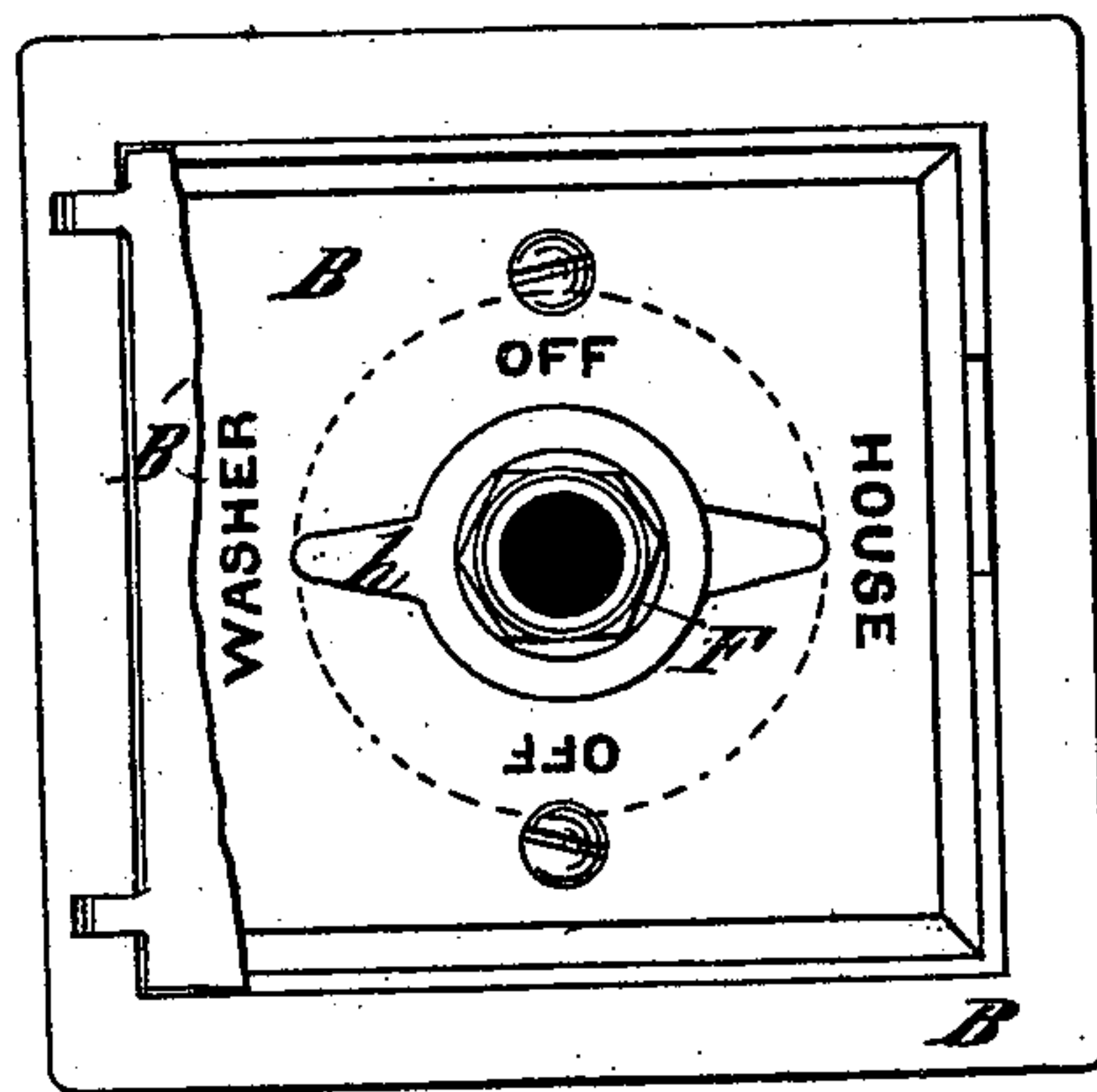
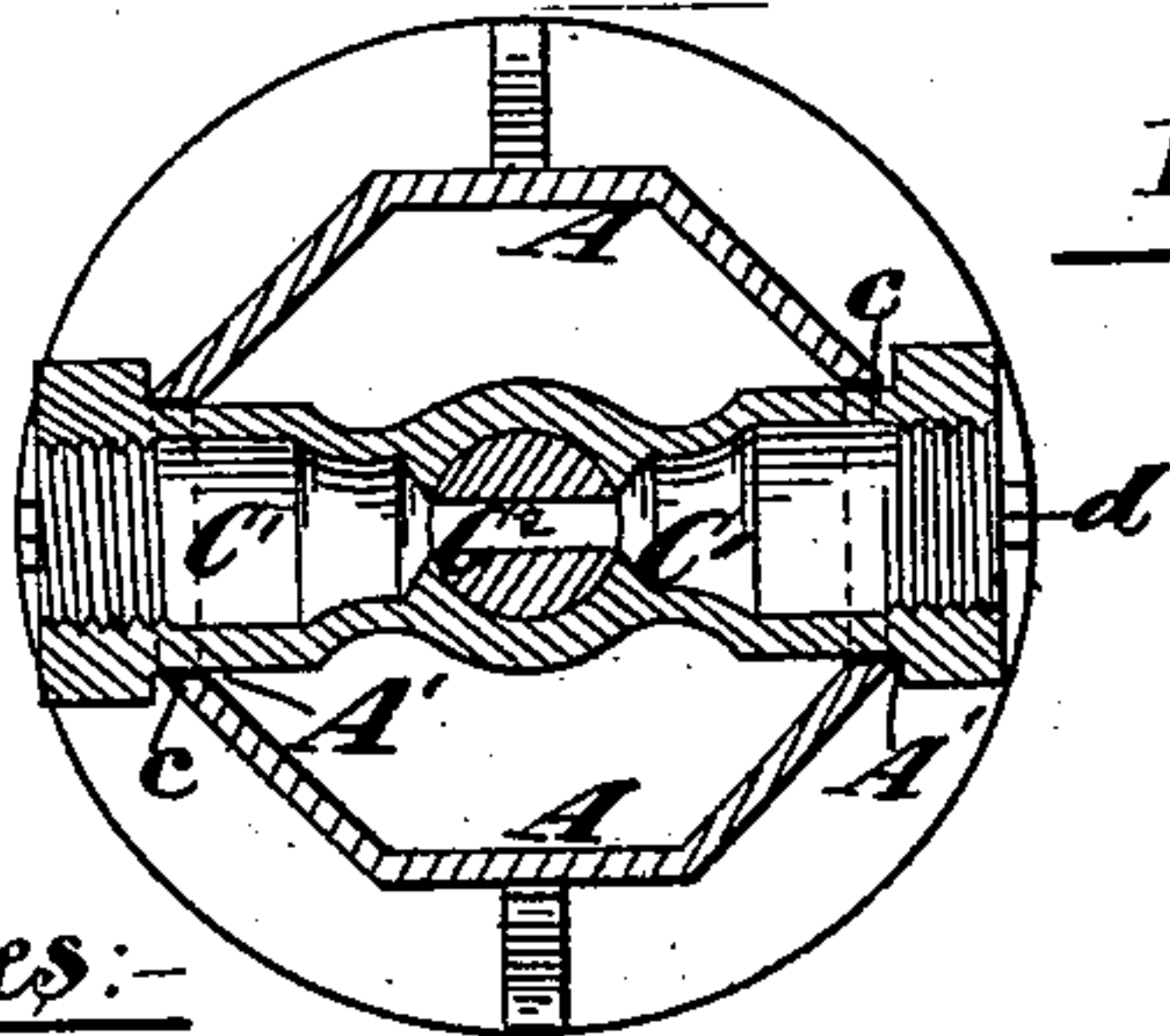


Fig. 3.



Witnesses:-

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UNITED STATES PATENT OFFICE.

JOHN BROUGHTON, OF BROOKLYN, NEW YORK.

CASING FOR STREET-WASHER CONNECTIONS, SERVICE-COCKS, AND HYDRANTS.

SPECIFICATION forming part of Letters Patent No. 236,540, dated January 11, 1881.

Application filed June 3, 1880. (No model.)

To all whom it may concern:

Be it known that I, JOHN BROUGHTON, of the city of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Casings for Street-Washer Connections, Service-Cocks, and Hydrants, of which the following is a specification.

Although my improvements are applicable to casings for service-cocks with street-washer connections and to those for hydrants of various kinds, they are particularly intended for those street-washer connections and hydrants in which the stand or delivery pipe is attached to and arranged in line with a hollow cock-plug, and which serves not only as a delivery or discharge pipe, but also as a convenient means for turning the plug of the cock.

One of my improvements consists in the combination, in a casing, with a vertically-divided column, of a box to the under side of which said vertical column is bolted, and which is constructed with angular flanges for the reception of the angular formation of the top of said divided column, so as to prevent lateral separation of the parts thereof.

Another improvement consists in the combination of the casing composed of the two vertical united columns-sections, a hollow box to the under side of which said sections are secured and by which they are held against lateral separation, a cock secured and supported between said column-sections, and a pipe or rod connected with the cock-plug and extending upward between said sections into said box.

The accompanying drawings represent a service-cock and street-washer connection and their casing, illustrating my invention.

Figure 1 represents a vertical section. Fig. 2 represents a horizontal section on the line *x*, Fig. 1, and an inverted plan of the sidewalk-box. Fig. 3 represents a horizontal section on the dotted line *y y*, Fig. 1; and Fig. 4 represents a plan, showing the cover of the sidewalk-box partly broken away the better to illustrate the construction.

Similar letters of reference designate corresponding parts in all the figures.

A designates the vertical column of the cas-

ing, and B the sidewalk-box with which said column communicates.

The stop-cock here shown is of peculiar construction, and will be briefly described, although it forms no part of the present application, but will be made the subject of another application for Letters Patent. C designates the shell, and D the plug, of this cock. The shell is constructed with a transverse water-way, C', while the plug is constructed with a corresponding water-way, C².

E designates a passage leading from the inlet side of the water-way C' to a port, *a*, in the taper seat for the plug and above the water-way C'.

In the plug D, above the water-way C², is a cavity, D', opening at the large end of the plug and terminating below in a port, *b*, ranging with the port *a* and adapted to be brought into communication therewith by the turning of the plug. To the upper open end of the plug is attached a pipe, F, which extends upward in line with the axis of the plug, and constitutes a stand or delivery pipe, as well as a rod for turning the plug by the application of a short key to the upper end thereof, which is suitably formed for the reception of such key.

When the plug is turned to the position shown in Fig. 1 the water can pass through the water-way C' C² to a building, and also through the passage E, cavity D', and pipe F to the street-washer connection. When the plug is turned half round the water is shut off from the street-washer, but remains turned on the building; but by turning the plug a quarter of a turn in either direction from the position it occupies in the drawings the water will be shut off entirely.

The vertical column A is provided on opposite sides with openings or holes A', which are adapted to fit snugly to the shanks *c* of the cock C and support and securely hold the same.

To provide for the insertion of the cock, I construct the column A of two united vertical sections, the joint between them being through the openings or holes A'. The meeting edges of the two sections may be provided with lugs or flanges *d*, through which bolts may be in-

serted for securing them together. This making of the column in two sections with a vertical joint also provides for casting it without coring. The vertical column is secured to the
 5 under side of the box B by bolts *e*, and in order to prevent any tendency to lateral movement the box is constructed with angular flanges or ribs *f*, into which fit the upper ends of the sections of the column, which are of corresponding angular form horizontally, and by
 10 which the two sections are securely held against lateral separation. The body of the column A might be circular in form, the upper part being polygonal for the purpose above mentioned; but it is represented as wholly of angular cross-section.

The construction of the box B with the angular flanges *f* receiving the upper end of the column is very advantageous, as the column-
 20 sections are thereby held against lateral separation, and no bolts are required for connecting the two column-sections at their upper ends.

The box B is constructed with a hinged cover, B', which may be secured by a common
 25 catch, *g*, and the box has inscriptions within its bottom, as shown clearly in Fig. 4, which, in connection with a pointer or index, *h*, projecting from the pipe F, provide for properly regulating the turning of the pipe and plug.
 30 The said pipe is suitably supported in bearings *i*, and is provided at its upper end with a screw-thread, *j*, providing for the ready connection of a hose.

The construction of the cock with its hollow
 35 open-ended plug and the stand or delivery pipe extending upward therefrom forms no

part of the present invention, but is the subject of another application for Letters Patent.

By my invention I furnish a light casing which may be manufactured at small cost, and
 40 which is so combined with a stop-cock as to properly support and sustain the latter. The same construction is applicable to the casings or columns of hydrants.

What I claim as my invention, and desire
 45 to secure by Letters Patent, is—

1. The combination, in the casing of a service-cock, street-washer connection, or hydrant, of a vertical divided column, the upper part of which is of rectangular or polygonal cross-section, and a box to the under side of which said
 50 vertical column is bolted, and which is constructed with angular flanges or ribs receiving the divided angular corners of the upper end of said column and preventing the lateral
 55 separation of the two sections thereof, substantially as specified.

2. The combination of the casing composed of two vertically-united column-sections, a hollow box to the bottom of which said sections are secured and by which they are held
 60 against lateral separation, a cock secured and supported between said column-sections, as described, and a pipe or rod connected with the cock-plug and extending upward between
 65 said sections into said box, substantially as specified.

JOHN BROUGHTON.

Witnesses:

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