

W. Bramwell,

Hydrant,

N^o 17,538.

Patented June 9, 1857.

Fig. 1

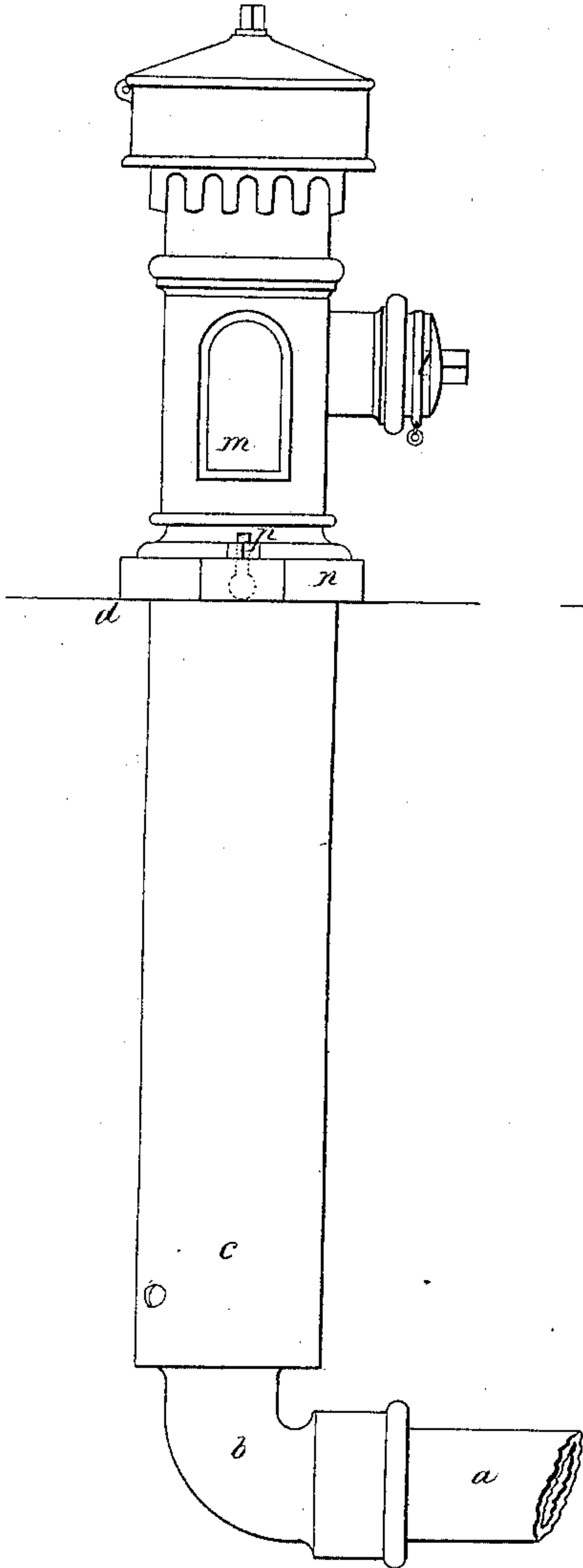


Fig. 2

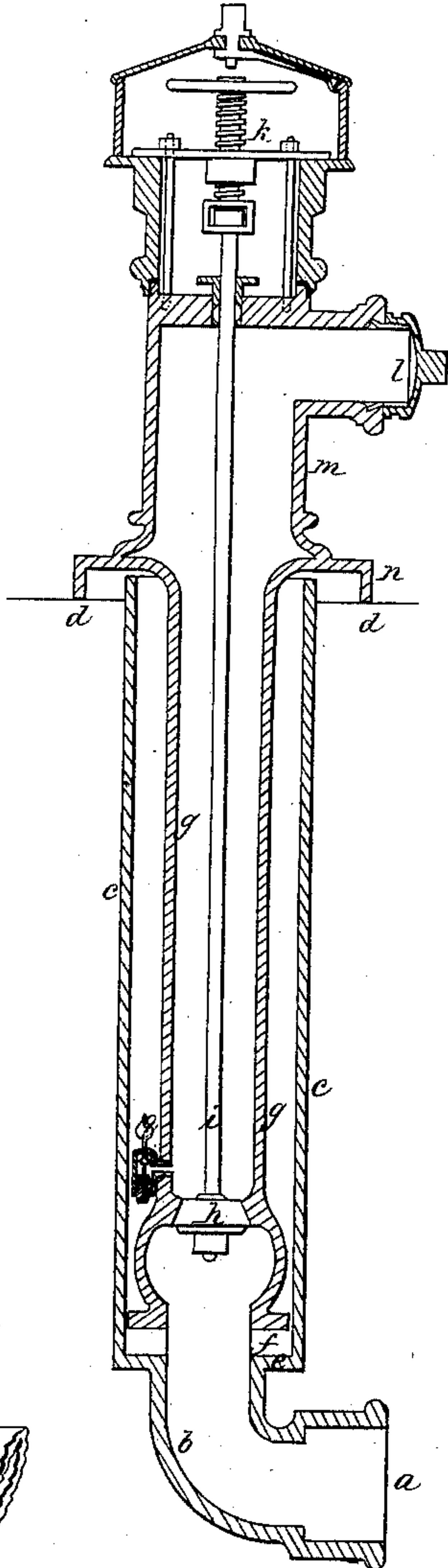


Fig. 3

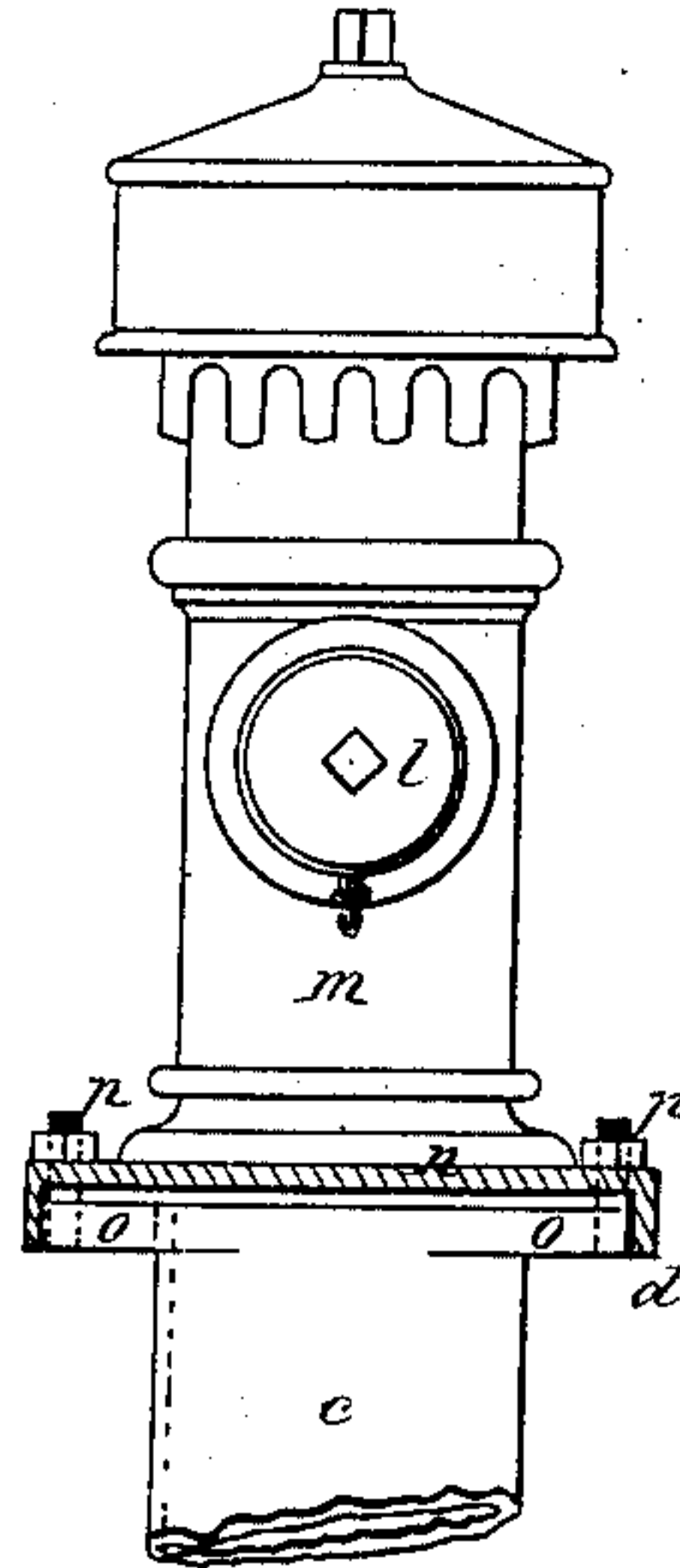
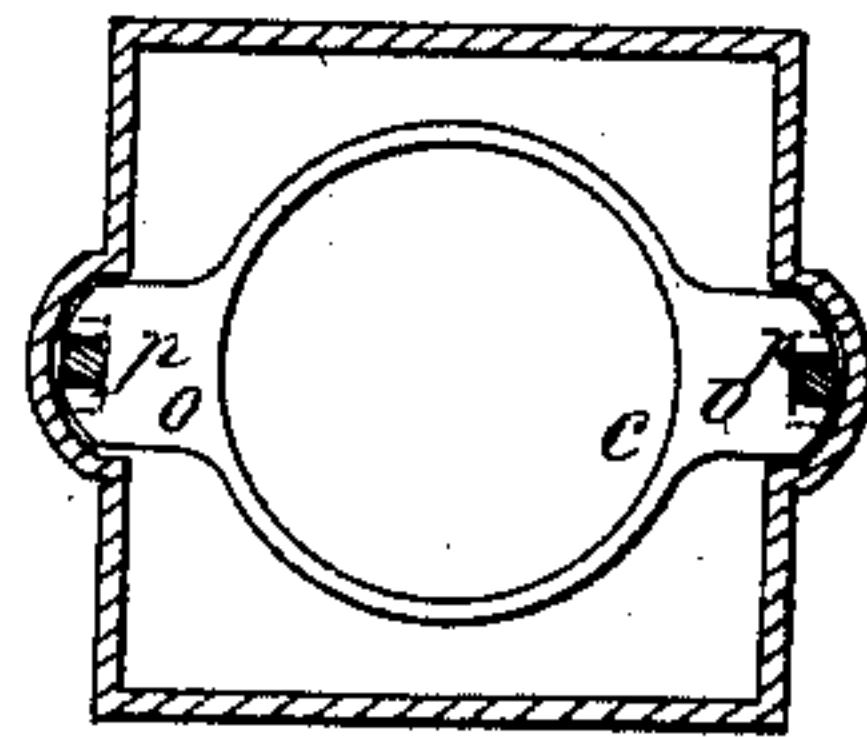


Fig. 4



Witnesses

Samuel W. Perrell

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UNITED STATES PATENT OFFICE.

WILLIAM BRAMWELL, OF NEW YORK, N. Y., ASSIGNOR TO SAMUEL P. AYRES, OF NEW ROCHELLE, NEW YORK.

METHOD OF INCASING HYDRANTS.

Specification of Letters Patent No. 17,538, dated June 9, 1857.

To all whom it may concern:

Be it known that I, WILLIAM BRAMWELL, of the city, county, and State of New York, have invented, made, and applied to use a new and useful Improvement in Fire-Hydrants; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1, is a side elevation; Fig. 2, is a vertical section; Fig. 3, is an elevation of the top of my said hydrant and Fig. 4, is a plan of the base of the same.

Similar marks of reference denote corresponding parts.

Hydrants used for supplying water in cases of fire are very often injured in use, and often become leaky from injury or some derangement of the working parts, and in these cases the hydrant has to be removed for repairs by digging down around the same at considerable cost and trouble; and in winter time the excavation is often almost impossible to perform, and consequently hydrants are often necessarily permitted to leak sometimes for several months before they can be repaired, causing a constant overflow of water which in such weather freezes and obstructs the street.

The nature of my said invention consists in providing a vertical pipe extending up to the level of the sidewalk or street from the branch pipe to the main water pipe in such a manner that the hydrant is entered therein and attached thereto at or near the level of the sidewalk, while packing between the hydrant and the said inclosing pipe is sufficiently below the surface to be out of the reach of frost, so that in case of injury to the hydrant the same can be immediately removed, after the water has been shut off by a stop cock to the main in the usual manner, by simply disconnecting the hydrant from said case or pipe at the surface of the sidewalk, and lifting the hydrant out, thereby the excavation around the hydrant is dispensed with.

In the drawing *a*, is the pipe from the

b, is a bend or elbow at the lower end of the vertical pipe or case *c*, which extends to the level of the street or sidewalk (at *d*.)

e, is a seat formed at the junction of the pipe *c*, and bend *b*, on which a rubber washer or cushion *f* is placed, receiving the lower end of the hydrant pipe *g*.

The hydrant itself is formed with the valve *h*, rod *i*, screw *k*, and nozzle or screw plug *l*, in the usual manner.

m, is the square, round or other ornamental casing, forming the inclosure to the parts of the hydrant, which may be of any desired shape. *n*, is the base of said casing which sits over the upper end of the pipe *c*, and this pipe *c*, is provided with lugs or projections *o, o*, see Figs. 3 and 4, receiving the screw bolts *p, p*, passing through the base *n*, and having nuts above said base.

It will now be apparent that the joint between the lower end of the hydrant pipe *g* and the seat *e*, is made perfectly tight by the elastic cushion *f*, of india rubber or similar material, on screwing up the said screws *p, p*, and in case of accident to the hydrant the whole thereof can be lifted out by removing the nuts of said screws *p, p*.

g, is a valve closing upward by the pressure of water when the same is admitted into the pipe *g*, but opening again so as to allow the water to waste away out of said pipe *g* to prevent freezing; after the water is shut off, and an opening should be left in the casing or pipe *e*, to allow said water to soak away into the earth.

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

The casing or pipe *c*, with its seat *e*, and elastic washer *f*, in combination with the hydrant pipe *g* and screws *p, p*, substantially in the manner and for the purposes specified.

In witness whereof I have hereunto set my signature this fourteenth day of May, 1857.

WM. BRAMWELL.

Witnesses:

LEMUEL W. SERRELL,
THOMAS G. HAROLD.