

(No Model.)

2 Sheets—Sheet 1.

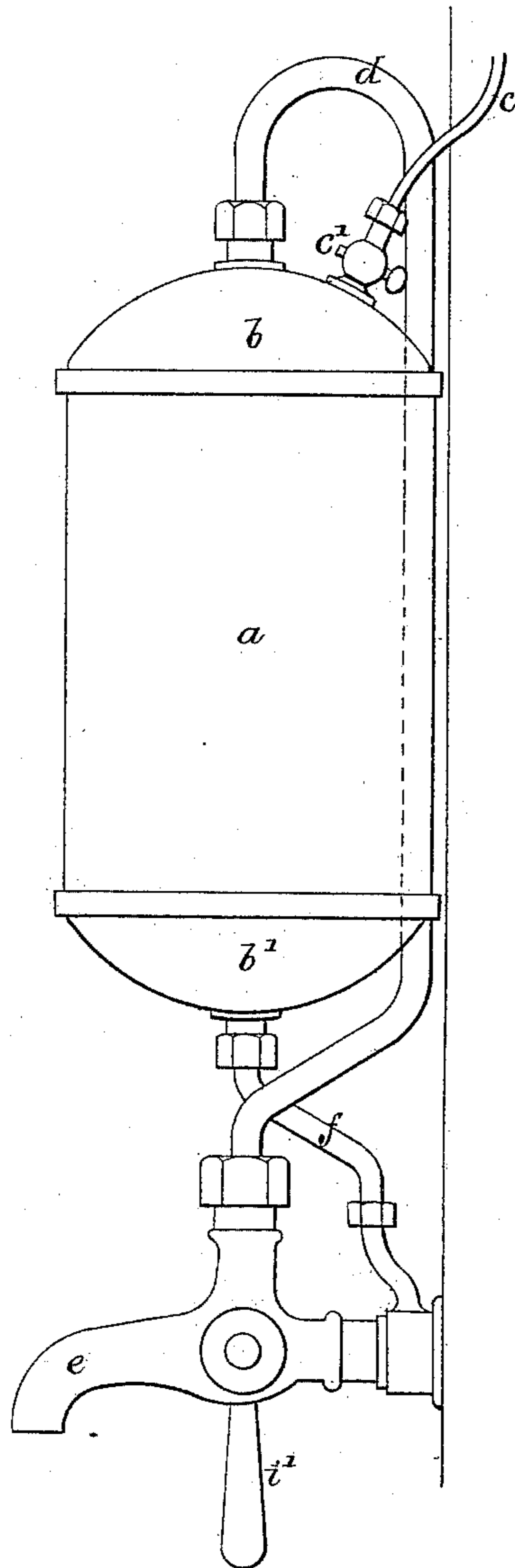
A. DUMAS.

DISTRIBUTION OF WATER IN HOUSES.

No. 277,691.

Patented May 15, 1883.

FIG. 1.



WITNESSES:

H. Turner.

James F. Jobin

INVENTOR:

Anselme Dumas
by his attorneys
Howson and Jones

(No Model.)

2 Sheets—Sheet 2.

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FIG. 2

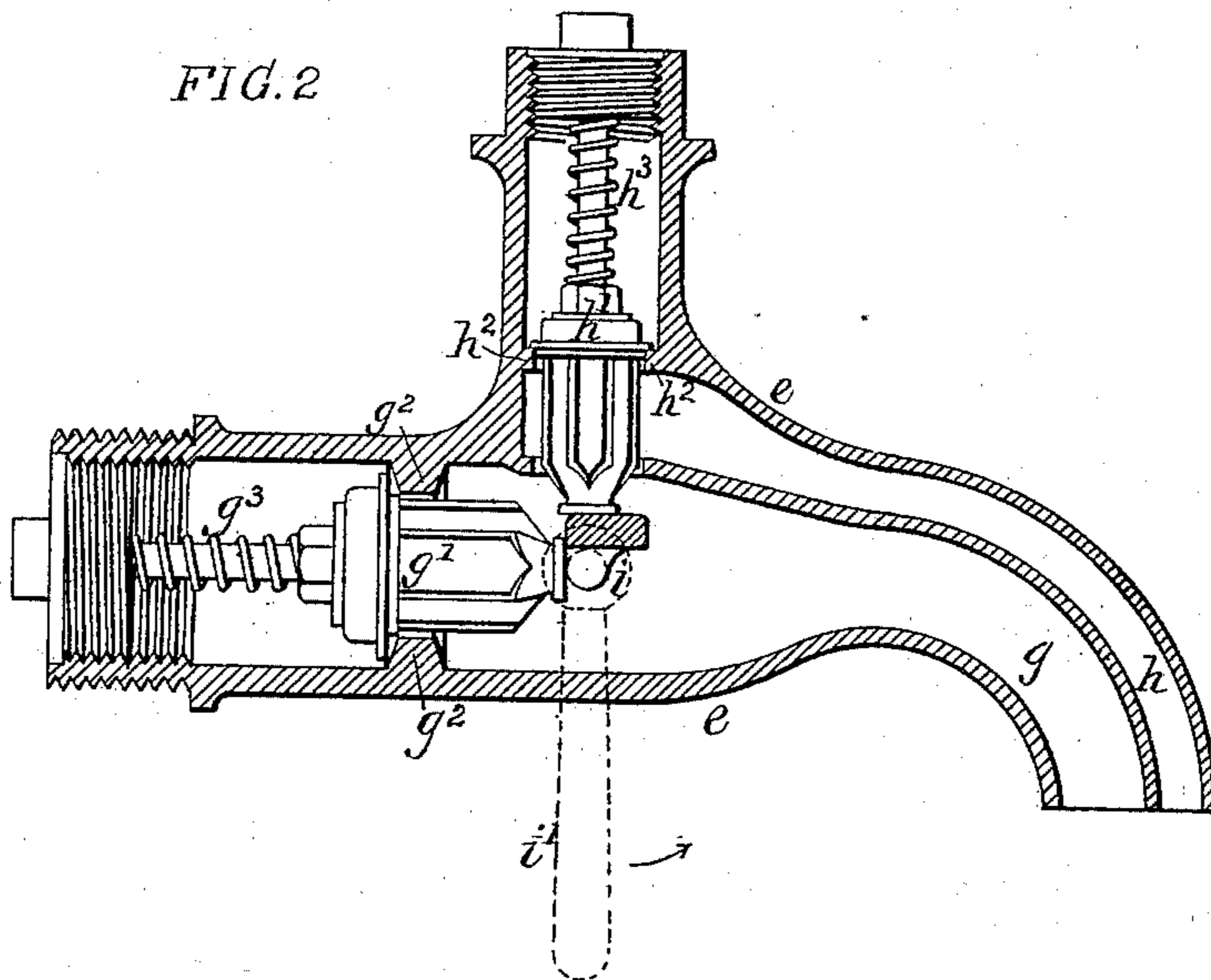
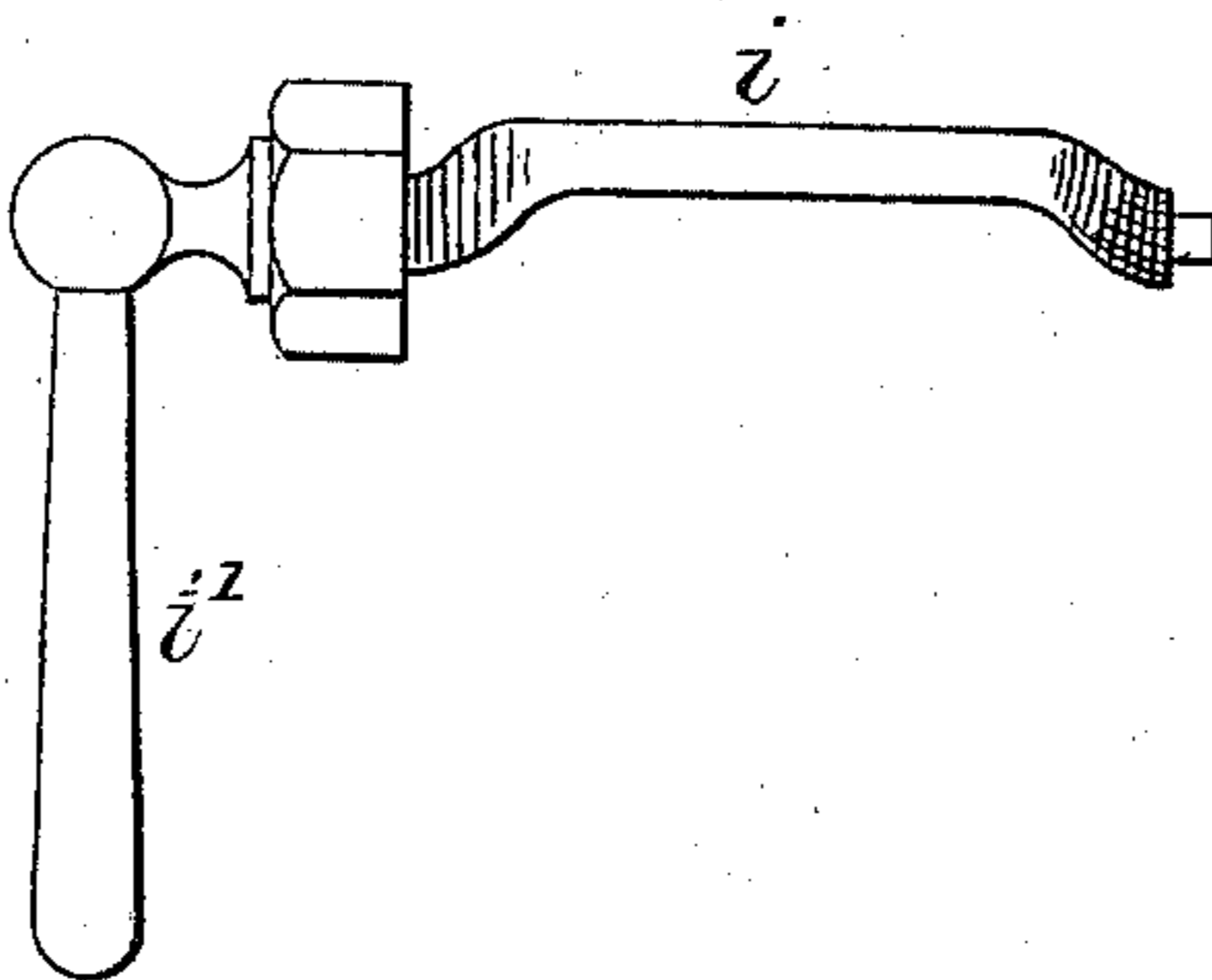


FIG. 3



WITNESSES:

Hamilton D. Turner.
David Williams

INVENTOR:

Antoine Dumas
by his Attorneys
Hosout & Co.

UNITED STATES PATENT OFFICE.

ANTHELME DUMAS, OF PARIS, FRANCE.

DISTRIBUTION OF WATER IN HOUSES.

SPECIFICATION forming part of Letters Patent No. 277,691, dated May 15, 1883.

Application filed July 31, 1882. (No model.) Patented in France March 24, 1882, No. 148,066; in Belgium June 10, 1882, No. 58,154; in England June 16, 1882, No. 2,850, and in Germany July 23, 1882, No. 21,309.

To all whom it may concern:

Be it known that I, ANTHELME DUMAS, a citizen of the Republic of France, and residing in Paris, France, have invented certain
5 Improvements in the Distribution of Water in Houses and in the apparatus connected therewith, of which the following is a specification.

My invention relates to an improved system
10 of and apparatus for supplying and distributing water in and to houses and other places; and it has for its object obviating the disadvantages of the systems at present in use by the employment of a simple and inexpensive
15 arrangement of apparatus capable of working with regularity and precision.

The object of my invention is to equalize the distribution and flow of water in the delivery pipes and cocks in houses, dwellings, &c.; and
20 this object I attain by combining with the supply-pipe a reservoir, pipes, and a delivery-valve constructed substantially as hereinafter set forth.

In the accompanying drawings, Figure 1,
25 Sheet 1, is a side view of my improvement; Fig. 2, Sheet 2, a sectional view of the delivery-cock, and Fig. 3 a detached view of the cam for operating the valves of the delivery-cock.

30 A tank or reservoir, *a*, preferably cylindrical, and provided with a rounded cover, *b*, and bottom *b'*, is secured in position near each delivery-valve *e*. The upper part of the reservoir communicates with two pipes, *c* and *d*, the former, preferably of small diameter and provided with a valve, *c'*, being the water-supply
35 pipe, while the pipe *d* communicates with one of the valved passages in the cock *e*, which is a double cock, as more fully described herein-

after. The bottom of the reservoir communi- 40
cates, through the pipe *f*, with the other valved passage in the delivery-pipe *e*. As shown in Fig. 2, the valve *e* has two passages, *g* and *h*, the former for the escape of the water and the latter for the simultaneous admission of air to 45
the reservoir. The passage *g* is provided with a valve, *g'*, normally kept to its seat *g²* by a spiral spring, *g³*. The passage *h* has a valve, *h'*, at right angles to the valve *g'*, and normally kept to its seat *h²* by a spiral spring, *h³*. The 50
noses of both valves are in contact with a cam, *i*, adapted to bearings in the casing and controlled by a handle, *i'*, so that when the latter is turned in the direction of the arrow, Fig. 2, the cam *i* will simultaneously open both the 55
valves *g'* and *h'*, and, while allowing the water to escape from the reservoir, will admit air to the upper part thereof, and so equalize the flow of the water therefrom. The employment of the reservoir, moreover, obviates the objec- 60
tionable shocks and noises which are due to the sudden arresting of the flow of the column of water in the ordinary pipes, and also permits me to use supply-pipes of comparatively
65 small diameter.

I claim as my invention—

The combination of a water-supply pipe, *c*, reservoir *a*, and double delivery-cock with air and water pipes *d* *f*, connecting the reservoir with the said double cock, substantially as de- 70
scribed.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ANTHELME DUMAS.

Witnesses:

JOSEPH DELAGE,
GEORGE WALKER.