

(No Model.)

D. BECK.

FIRE EXTINGUISHING APPARATUS.

No. 278,307.

Patented May 29, 1883.

Fig. 1-

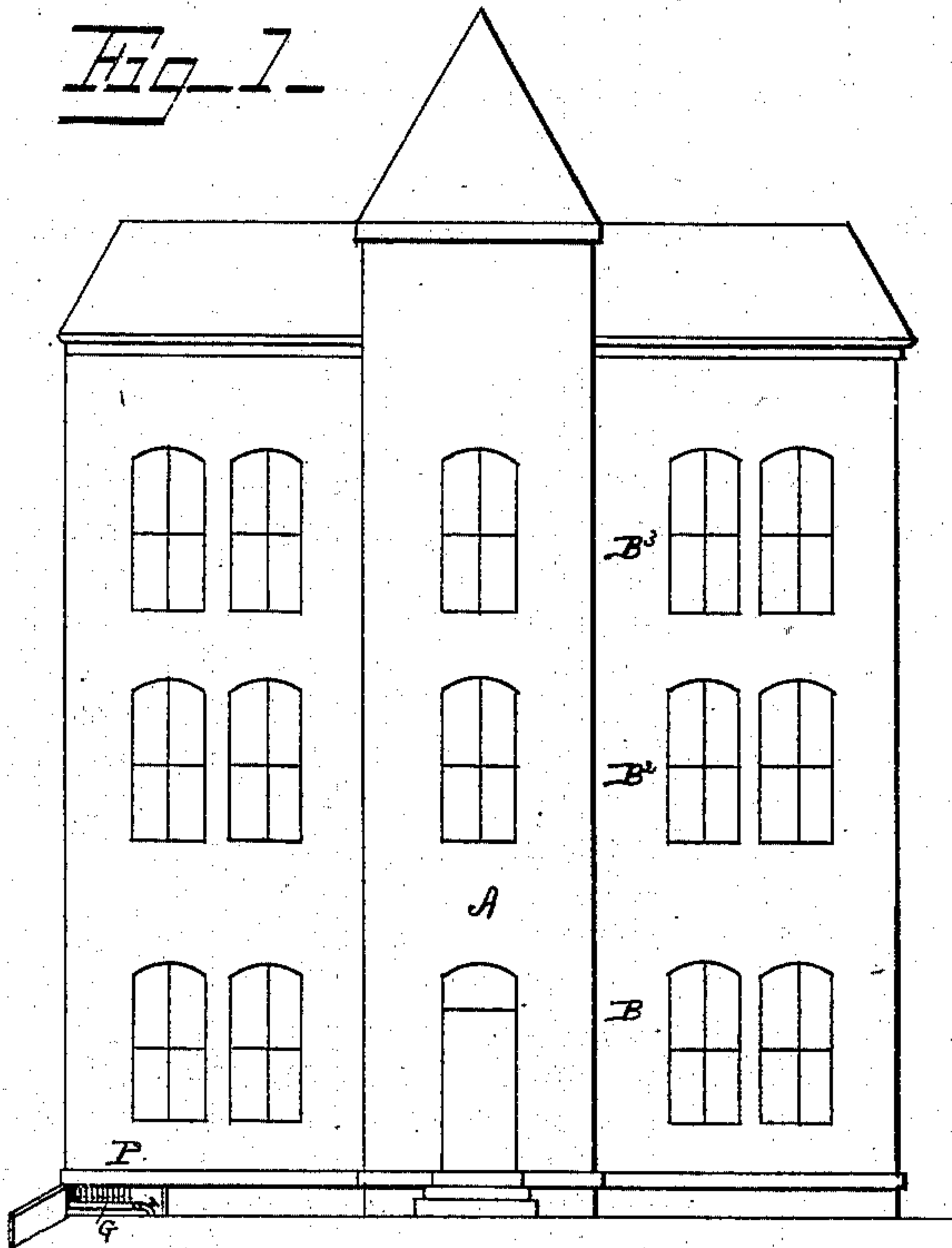


Fig. 2-

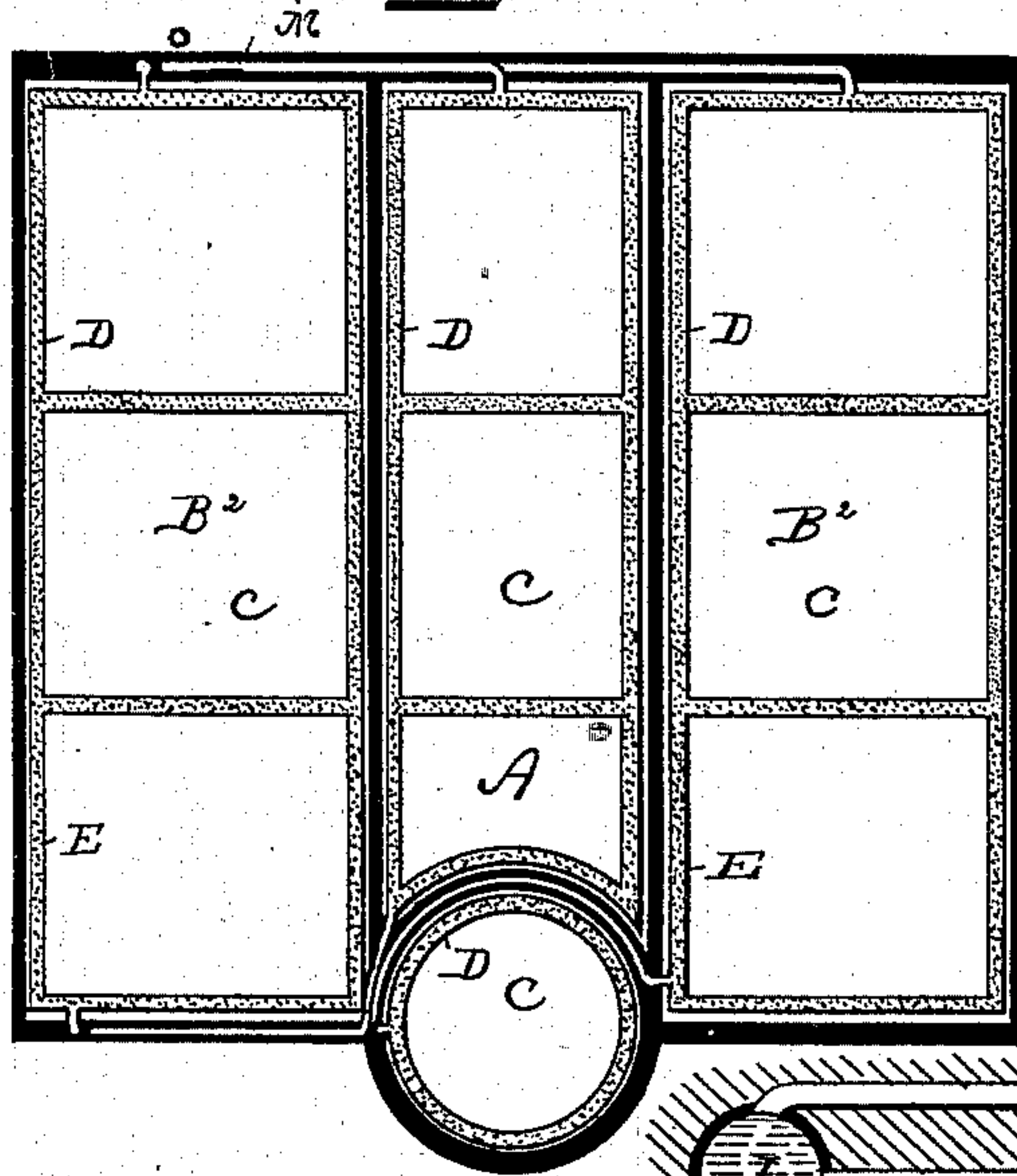


Fig. 4-

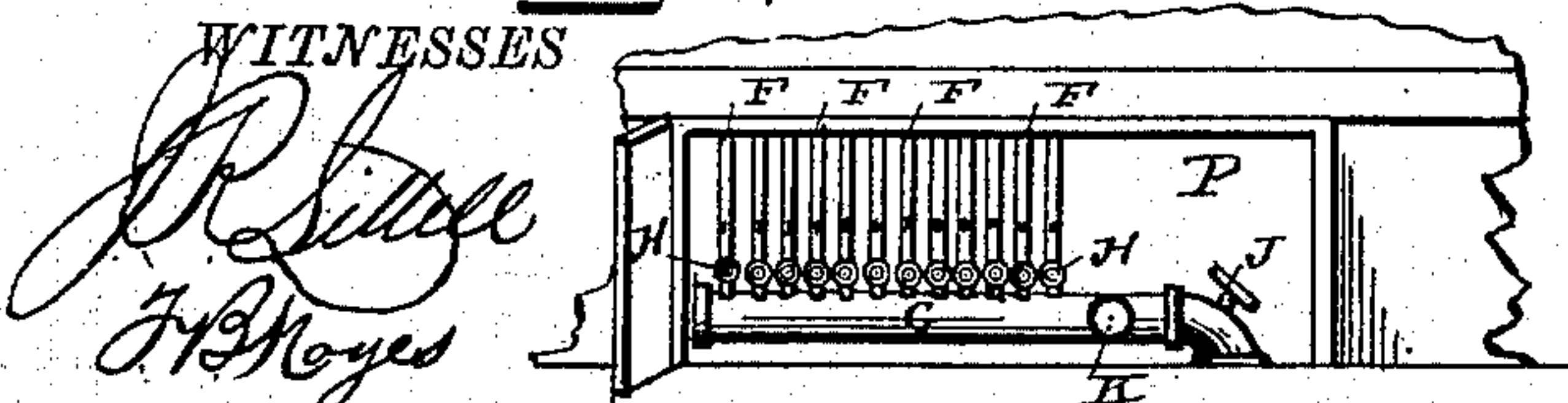
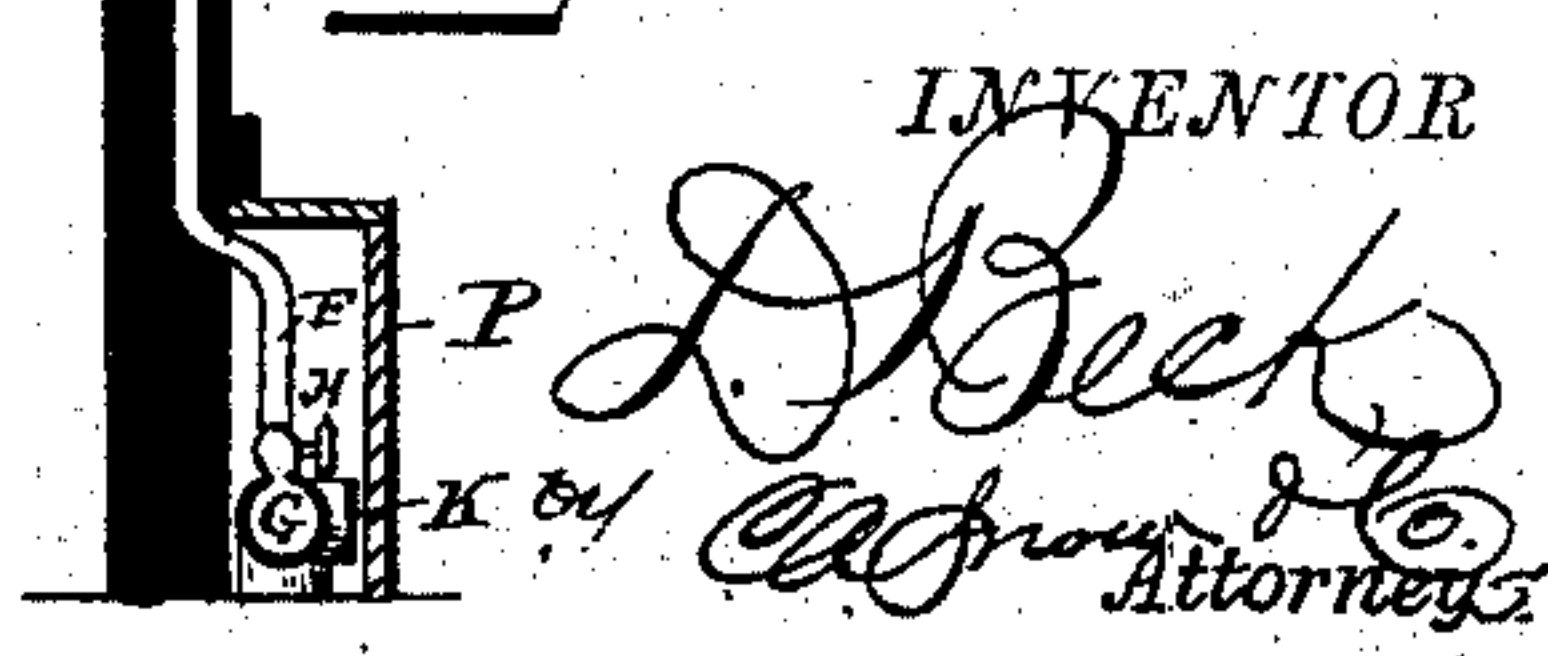


Fig. 5-



WITNESSES

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DANIEL BECK, OF CHICAGO, ILLINOIS.

FIRE-EXTINGUISHING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 278,307, dated May 29, 1883.

Application filed January 17, 1883. (No model.)

To all whom it may concern:

Be it known that I, DANIEL BECK, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Fire-Extinguishing Apparatus, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to fire-extinguishing apparatus, and has for its object to provide a simple, inexpensive, and efficient arrangement of pipes to be permanently disposed throughout the building, and adapted to distribute water over any or all parts of the building, as desired, without the necessity of the firemen entering the house.

In the drawings, Figure 1 is a front view of a building having my improved extinguishing apparatus. Fig. 2 is a vertical transverse sectional view of the same. Fig. 3 is a horizontal sectional view on the line *z z*, Fig. 2. Figs. 4 and 5 are detail views.

Referring to the drawings, A designates the house to which my invention is applied, which is constructed in any desired manner, the one herein shown having three stories, B B² B³, respectively, as shown.

The compartments C of the house have a series of pipes, D, arranged around the top of the room, and preferably conforming to the contour thereof. These series of pipes are perforated around their entire surfaces, as shown at E. The system of pipes of each floor of the house can be independently arranged; but the pipes of each room are preferably independent of the pipes of any other room, as herein shown. Thus from the series of pipes in each room extends a feed-pipe, F, to a main pipe, G, these feed-pipes being provided with cocks H, by which the water can be turned on to any one room or independent section of pipes. The main pipe G connects with the water-main I in the street, and is provided with a suitably-arranged cock, J, for governing the feed of the water from the street-main. The feed-pipe G is also provided with a coupling, K, between its cock J and the feed-pipes F, by which coupling hose from a fire-engine can be readily connected to the pipe G, and force water with great power through the latter into any of the pipes F that have their cocks open.

If desired, a reservoir, L, on top of the house, can be connected by a feed-pipe, M, with the independent systems of perforated

pipes, D, this feed-pipe M being provided with a cock, N, at each section of pipes D, and also with a cock, O, at the reservoir. The gravity of the water in the reservoir will force it with considerable power through the pipes.

The operation of my invention is obvious. In case of fire, the main cock J has only to be turned on, when the water from the street-main will rush into the fire-extinguishing-apparatus feed-pipe G. Then, by turning the desired cock H, the whole force of the water from the street-main will be directed to any certain room that may be the seat of the fire, and will be forced in all directions through the perforations in the pipes D. By turning on all the cocks H the water can be caused to play into every room of the house simultaneously. Upon the arrival of the engines they can be readily attached, if desired, at the coupling K, and will force the water through the desired pipes with power. The cocks H and J and the coupling K are preferably inclosed in a locked closet, P, that can be reached from the outside of house without breaking into the same, in case the building is untenanted. The reservoir-feed mechanism is adapted to be quickly brought into operation by the inmates of the house without going on the outside.

I claim as my invention—

As an improvement in fire-extinguishers, the combination, with the building having the series of perforated pipes D, and provided with the closet or compartment P at the ground, of the feed-pipes F, extending from the series of pipes D down vertically and parallel into the closet, and each provided with a shut off cock, H, at its lower end in the closet, and the main feed-pipe G, arranged horizontally in the closet, into which the bottom ends of the vertical parallel series of supplementary feed-pipes F open, said pipe G being provided with a cock, J, in the closet, and arranged between its feed end and the series of pipes F, whereby all the supplementary pipes F are brought into the horizontal pipe G in the closet, and the whole arrangement can only be operated from the latter, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

DANIEL BECK.

Witnesses:

WILLIAM GERHART,
WILLIAM SCHUBERT.