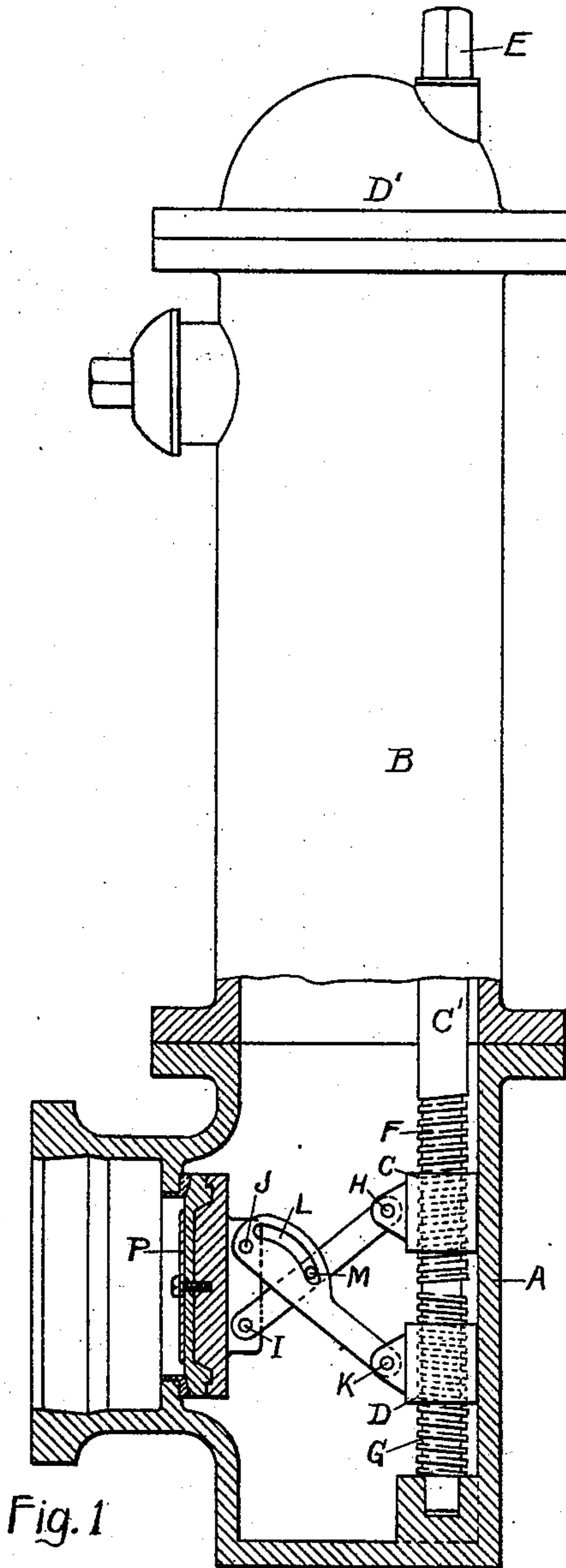
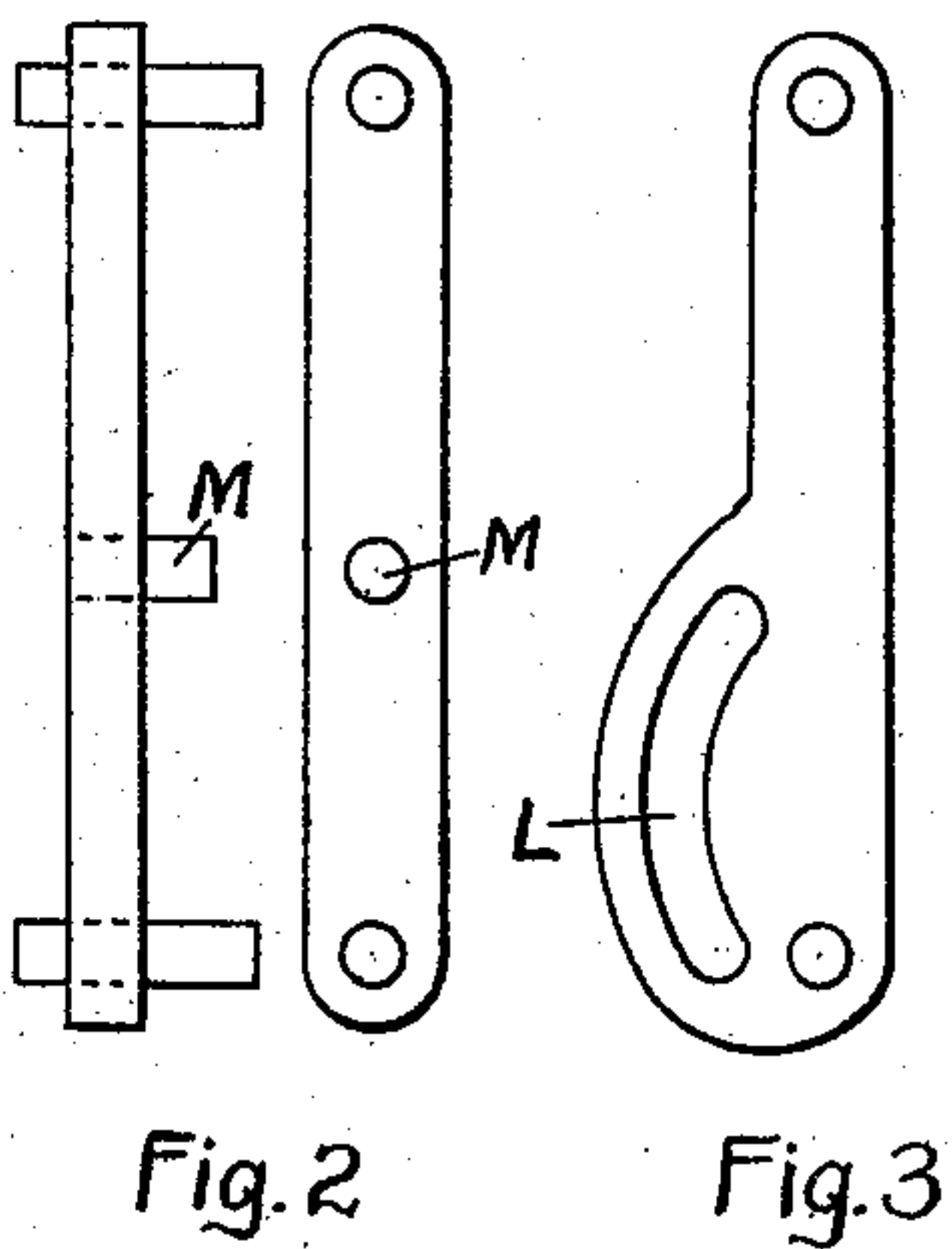


(No Model.)

C. A. SULZMAN.
FIRE HYDRANT.

No. 603,295.

Patented May 3, 1898.



WITNESSES:

Edward F. Chillman
A. B. King

INVENTOR

Charles A. Sulzman

UNITED STATES PATENT OFFICE.

CHARLES A. SULZMAN, OF WATERFORD, NEW YORK, ASSIGNOR OF ONE-HALF TO JOHN KNICKERBACKER, OF TROY, NEW YORK.

FIRE-HYDRANT.

SPECIFICATION forming part of Letters Patent No. 603,295, dated May 3, 1898.

Application filed July 20, 1897. Serial No. 645,294. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. SULZMAN, a citizen of the United States, residing at Waterford, in the county of Saratoga and State of New York, have invented certain new and useful Improvements in Fire-Hydrants; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in lever-operated valves for fire-hydrants and is a modified form of that shown by me in my application filed March 4, 1896, Serial No. 581,818; and the object of it is to construct a lever-operated valve which will at all times work parallel to the desired plane. I attain this object by the means illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of the hydrant-bottom, showing the valve closed and the stand-pipe bolted to the hydrant-bottom. Fig. 2 is a view of one of the levers having a guiding-pin. Fig. 3 is a view of one of the levers having a guiding-slot.

Similar letters refer to similar parts throughout the several views.

The casing or bottom A for the valve is of suitable form to receive the operating mechanism of the valve and the valve. It is of sufficient size to permit of the valve being removed through the top of it and out of the stand-pipe, which has as great a diameter as the upper part of the bottom. The stand-pipe B is bolted to the bottom. On the operating-stem C', which projects through the outside of the cover D', is placed the square E, which can be readily turned by means of a suitable wrench to operate the hydrant-stem C'. The lower end of the hydrant-stem

C' is screw-threaded with a right and left hand thread F and G or is arranged as a support for the lever end supports to be hereinafter described. On this part of the stem are placed the nuts or lever end supports C and D. These nuts or supports move up and down the stem and are in contact with the back of the hydrant-bottom. To the nuts or lever end supports C and D are attached the lever-arms H I and J K. These levers are pivoted to the back of the valve at the points I J and attached to the nuts at the points H and K. The back of the valve is arranged with ribs, through which pass the pins at J I. On the lever H I is the pin M, and on the lever J K is a rounded slot L. The pin M works in this slot when the parts are assembled. When the valve is drawn to and from its seat in whatever position it may be, the pin M, working in the slot L, prevents any rocking motion of the valve and always holds the face P parallel to a given plane.

I do not wish to limit myself to the nuts or lever end supports being drawn together or apart by right and left hand screws, as any other means of actuating them may be employed other than to have the stems threaded, as hereinbefore stated.

What I desire to claim as new and of my own invention is—

In a hydrant the combination of a casing, support and actuator for the lever end supports, lever end supports, levers attached to said lever end supports and to the valve, a valve to close the inlet-opening in the casing, a pin on one of said levers arranged to work in a groove on the other lever, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES A. SULZMAN.

Witnesses:

EDWARD F. CHILLMAN,
A. B. KING.