

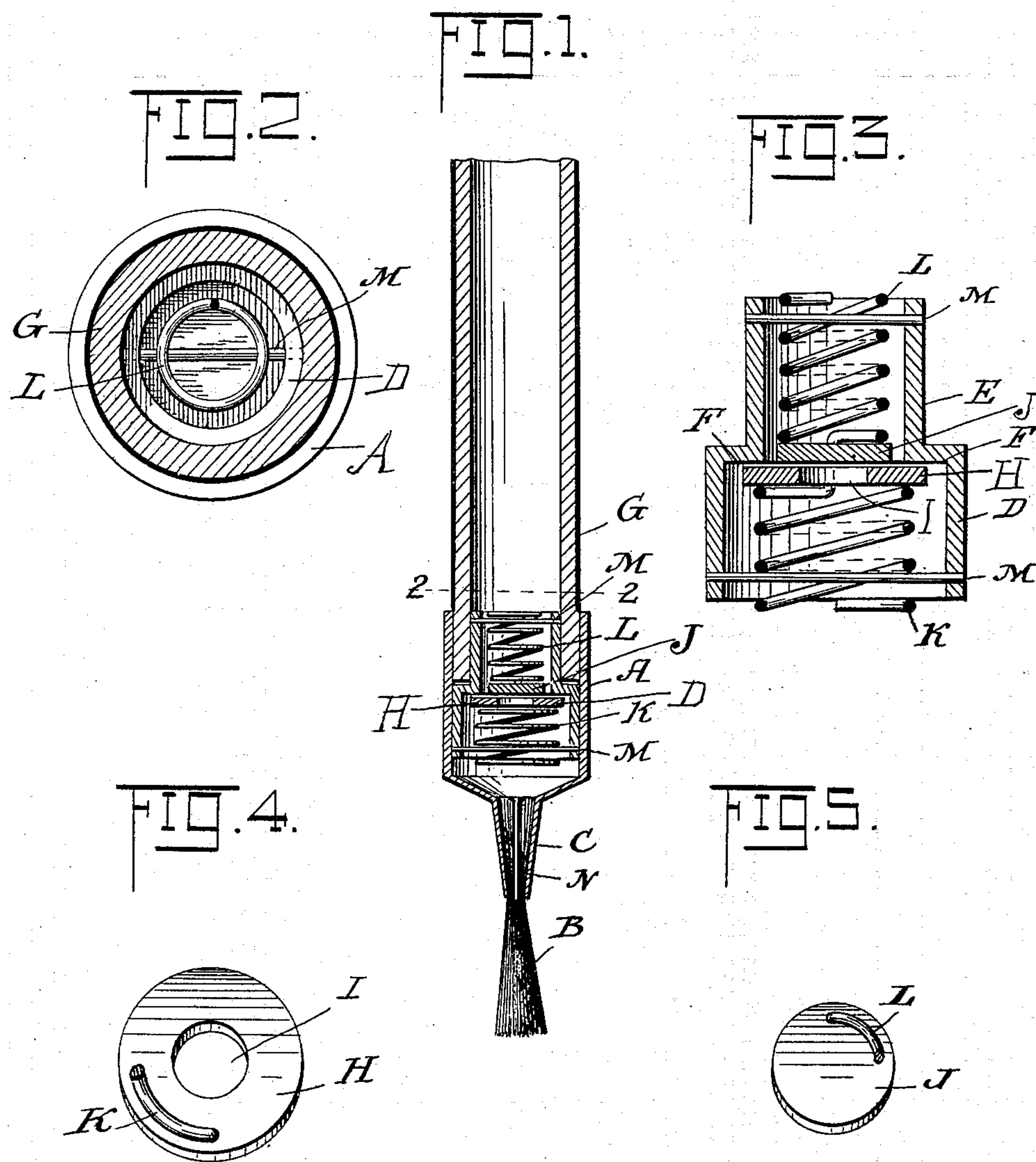
No. 615,617.

Patented Dec. 6, 1898.

H. F. HAYNES.
FOUNTAIN BRUSH.

(Application filed Jan. 22, 1898.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

HOBART F. HAYNES, OF NASHUA, NEW HAMPSHIRE.

FOUNTAIN-BRUSH.

SPECIFICATION forming part of Letters Patent No. 615,617, dated December 6, 1898.

Application filed January 22, 1898. Serial No. 667,605. (No model.)

To all whom it may concern:

Be it known that I, HOBART F. HAYNES, a citizen of the United States, residing at Nashua, in the county of Hillsborough and State of New Hampshire, have invented certain new and useful Improvements in Fountain-Brushes; and I do hereby 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.

This invention relates to improvements in fountain-brushes; and the object thereof is to provide a fountain-brush which is simple in construction and effective in operation.

The invention consists in the novel details of construction fully set forth in the specification, particularly referred to in the claims, and clearly illustrated by the accompanying drawings, in which—

Figure 1 is a longitudinal sectional view of a brush embodying my invention. Fig. 2 is a transverse sectional view on the line 2 2 of Fig. 1. Fig. 3 is a sectional detail view of the valve-casing and the two-part valve. Fig. 4 is a perspective view of one of the valve parts. Fig. 5 is a similar view of the other part.

Referring to the drawings, A indicates the head of the brush, which is in the form of a casing, having the bristles B secured in the contracted end C thereof. Positioned within the head A is the valve-casing D, which is contracted at E, forming the valve-seat F.

The handle G of the brush is tubular and is made compressible either its whole length or only a portion thereof, as may be desired, said handle at its outlet end being fitted about the contracted portion of the valve-casing and held in position by the walls of the head.

The valve is composed of the disk H, having a central opening I and adapted to engage the seat F, and of the disk J, which is smaller in diameter than the contracted portion of the valve-casing, in which it is positioned, and is adapted to seat upon the inner side of disk H and close opening I.

A spiral spring K within the valve-casing holds disk H normally to its seat, and a similar spring L within the contracted portion of the casing performs a like function with respect to disk J.

Pins M extend transversely of the valve-

casing and pass through the convolutions of the respective spiral springs, holding the latter in position and at the same time permitting them to be adjusted to vary their pressure upon the valve-disks by simply turning said springs.

A tube N leads from the head of the brush through the contracted portion thereof and supplies the bristles with fluid contained in the handle or fountain.

In operation the handle or fountain is filled with paint or other fluid which is forced therefrom into the head by compressing said compressible handle, the disk H moving outwardly from its seat and the fluid passing around disk J and around disk H. From the head the fluid passes through tube N to the bristles. As soon as pressure is removed from the handle or fountain the walls thereof return to their normal positions and the disk H to its seat, while at the same time disk J is forced inward from its seat by air entering through opening I of disk H, thus keeping the fountain filled.

From the above description it will be seen that I have produced a simple and effective construction of fountain-brush, the same being provided with an improved construction of valve, by means of which the contents of the fountain are permitted to pass to the bristles and air is allowed to enter said fountain.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

1. In a fountain-brush, the combination with a fountain having a valve-casing at the outlet end thereof, of a two-part valve arranged in said casing and controlling the flow of fluid therethrough, said parts being adapted to move in reverse directions, substantially as described.

2. In a fountain-brush, the combination with a fountain having a valve-casing at the outlet end thereof, of a two-part valve arranged in said casing and controlling the flow of fluid therethrough, one of said parts being adapted to move outwardly and having an opening formed therein, and the other part adapted to move inwardly and closing said opening, substantially as described.

3. In a fountain-brush, the combination with a fountain having a valve-casing at its

outlet end, of a two-part valve arranged in said casing and controlling the flow of fluid therethrough, a spring for holding each valve part normally seated, and means for adjusting said springs, substantially as described.

4. In a fountain-brush, the combination with a fountain having a valve-casing at its outlet end, of a two-part valve arranged in said casing and controlling the flow of fluid therethrough, a spring for normally holding each valve part seated, and a pin passing through the convolutions of each spring, whereby the latter may be adjusted by rotation, substantially as described.

5. In a fountain-brush, the combination with the fountain having a valve-casing positioned at its outlet end, which valve-casing is formed with a contracted portion, of a two-part valve, comprising a disk movable in the valve-casing and adapted to engage the seat formed by contracting said casing, and formed

with a central opening, a disk smaller in diameter than the contracted portion of the casing in which it is movable, and adapted to seat upon the first-named disk and close the opening therein, and springs holding said valves to their seats, substantially as described.

6. A fountain-brush comprising a head carrying a brush portion, a valve-casing positioned therein and having a contracted portion, a hollow compressible handle fitted about the contracted portion of the valve-casing and positioned in the head, and a valve in said valve-casing and controlling the outlet of said handle, substantially as described.

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

HOBART F. HAYNES.

Witnesses:

B. A. PEASE,

L. D. STEARNS.