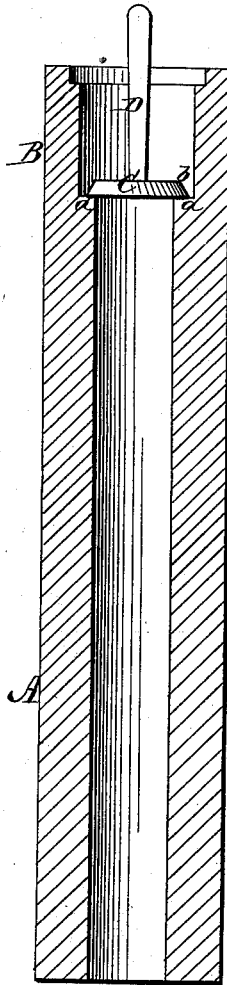


J. B. ASTON.

Mode of Blackwashing Molds.

No. 165,196.

Patented July 6, 1875.



WITNESSES

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JOHN B. ASTON, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN MODES OF BLACK-WASHING MOLDS.

Specification forming part of Letters Patent No. **165,196**, dated July 6, 1875; application filed November 21, 1874.

To all whom it may concern:

Be it known that I, JOHN B. ASTON, of Pittsburg, in the county of Allegheny and in the State of Pennsylvania, have invented certain new and useful Improvements in Black-Washing Molds; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in a mode of black-washing molds for cast-iron bowl-pipe, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a vertical section of a mold with my device for black-washing the same.

A represents a mold for casting that class of pipes known as bowl-pipes, said mold being formed at its upper end with the bowl B. *a* is the shoulder or offset which forms the bottom of the bowl B. C represents a circular plate or disk having its edge beveled to form the incline *b*. This plate or disk is made of smaller diameter than that of the interior of the bowl B, but sufficiently large to rest on

the shoulder or offset *a*, and thus form a valve to close the upper end of the main part of the mold A. D is a handle attached to the disk or valve C, and extending above the upper edge of the bowl.

When the mold is to be black-washed the disk or valve C is placed on the shoulder or offset *a*, and the black-wash poured into the bowl on top of the valve, the black-wash being prevented from passing down into the mold by the valve. By now raising the valve slightly, the black-wash will pass around the inclined edge *b* of the valve, and down into the mold, in the form of a hollow cylindrical sheet, so as to black-wash the entire interior of the mold.

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

The mode herein described of black-washing bowl-pipe molds by means of the disk or valve C, constructed to seat on the shoulder *a*, as shown.

In testimony that I claim the foregoing I have hereunto set my hand this 5th day of November, 1874.

JOHN B. ASTON.

Witnesses:

HENRY NICHOLS,
JOHN B. GEYSER.