

A. P. Lawsha,
Feed Regulator.

No. 102,279.

Patented Apr. 26. 1870.

fig. 1.

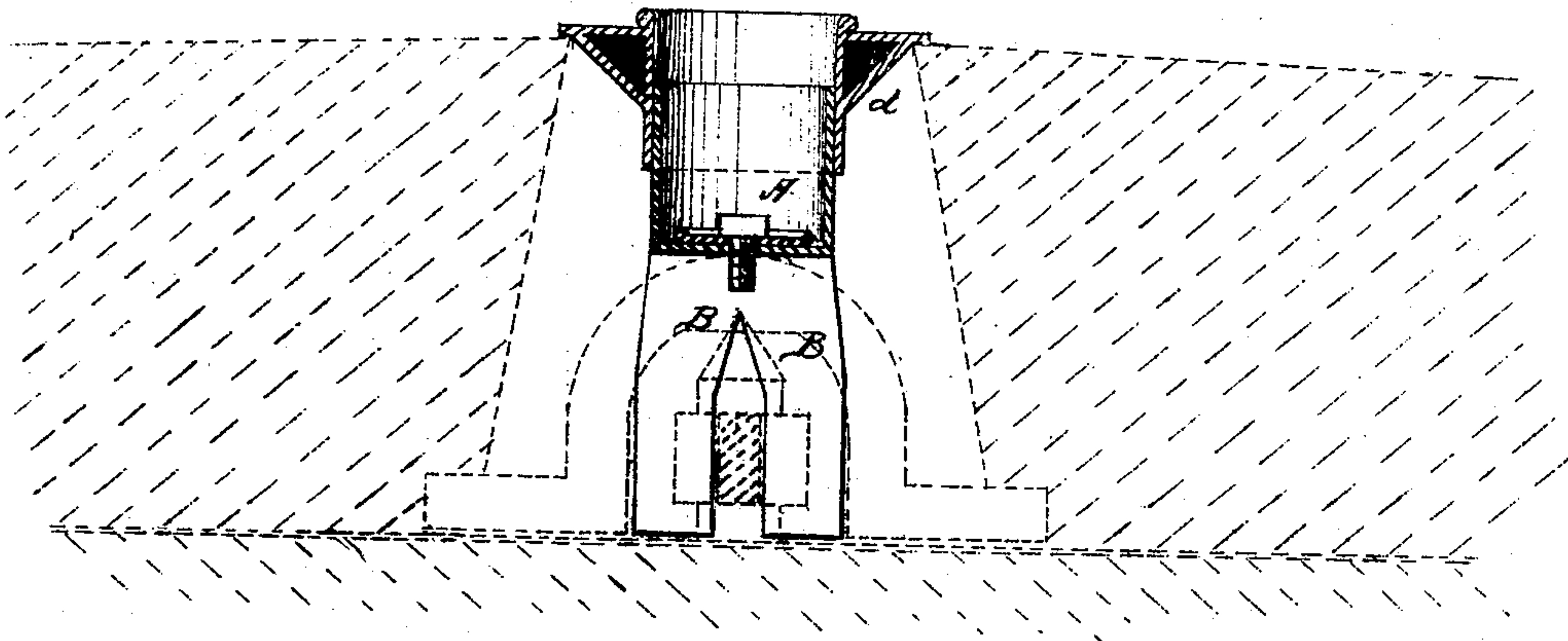
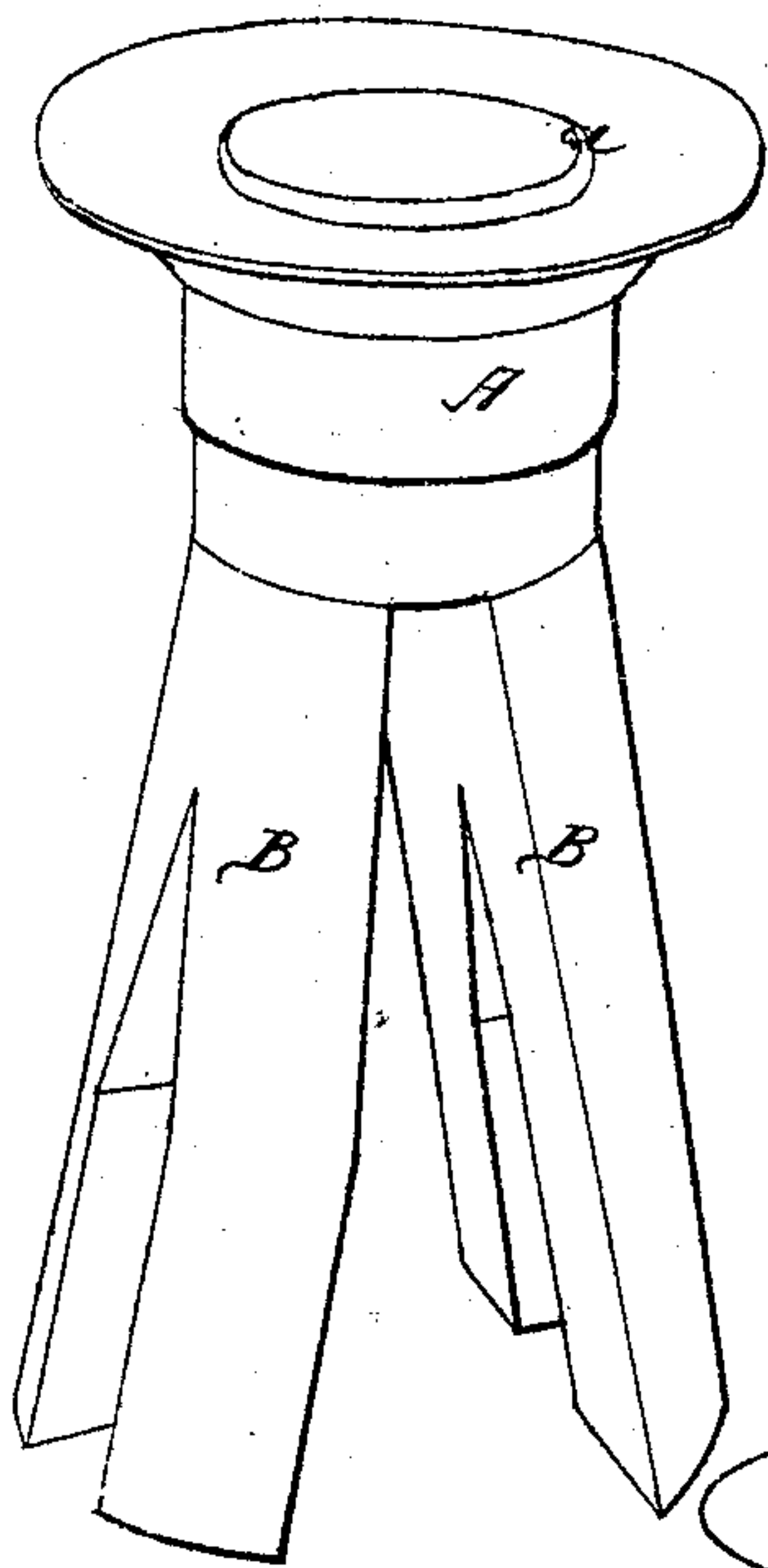


fig. 2.



Witnesses:

Victor Hagmann

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per [Signature]
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United States Patent Office.

ARTHUR P. LAWSHA, OF HARPER'S FERRY, WEST VIRGINIA.

Letters Patent No. 102,279, dated April 26, 1870.

IMPROVED MILL-BUR FEEDER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ARTHUR P. LAWSHA, of Harper's Ferry, in the county of Jefferson and State of West Virginia, have invented a new and improved Bur-Feeder; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings forming a part of this specification, in which—

Figure 1 is a sectional elevation.

Figure 2 is a perspective view.

This invention consists of a sheet-metal tube called a "bowl," intended to be introduced within the eye of of an upper mill-stone or runner, said bowl being secured at its lower end to the balance-rind, and provided with a pair of flaring half-tubes extending downward from its lower edge, one at each side of the balance-rind and reaching nearly to the surface of the nether or bed-stone; and said bowl being combined with an external tube or outer bowl which fits its outside closely, and may be removed therefrom at pleasure, which outer bowl is furnished with a funnel-shaped flange at its upper end which closes the eye of the runner, the function of the flange being to direct the whole force of the air-current down through the inner bowl and half-tubes, for the purpose of keeping the latter clear; and the inner and outer bowls being made separate, in order that the latter may be removed when it is desired to draw the lower ends of the half-tubes together before introducing them within an eye whose upper end is too small to receive them unless thus sprung together, the removal of the outer bowl enabling the inner bowl to change its shape conformably to the springing of the half-tubes, which it could not do if confined within the outer bowl.

In the drawing—

a is the inner bowl.

B B, the half-tubes.

The eye of the runner is often of tapering form,

larger at the bottom than the top. It is desirable that the half-tubes should flare as widely as possible, in order to bring their lower orifices over the furrows of the bed-stone, so as not to deposit grist, middlings, &c., upon the skirt of the bed-stone or that central part which is not furrowed, and where whatever is deposited clogs the burs. But, when the half-tubes flare so much as to be wider at their lower ends than the upper end of the eye of the runner, they must needs be drawn together in order to getting them into place. Such drawing together is easily accomplished when the inner bowl is not within the outer one.

The half-tubes having been duly inserted within the eye of the runner, spring outward again to their original shape. The inner bowl having been attached to the balance-rind, the outer bowl *c* is slipped on, and its funnel-shaped flange *d* closes the eye, thus preventing any air finding its way outside the bowls.

The half-tubes extend downward to within an inch of the surface of the bed-stone, and the revolution of the runner, by forming partial vacua at the lower ends of the half-tubes, causes currents of air to rush through them and prevent them from becoming choked.

The half-tubes are each forked, as shown in fig. 2, so as to give room for the driver to pass between them.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The inner bowl *a*, provided with flaring and forked half-tubes *B B*, and combined with the outer detachable bowl *c*, provided with the funnel-shaped flange *d*, all constructed to operate as described.

ARTHUR P. LAWSHA.

Witnesses:

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WILLIAM BUTTS.