

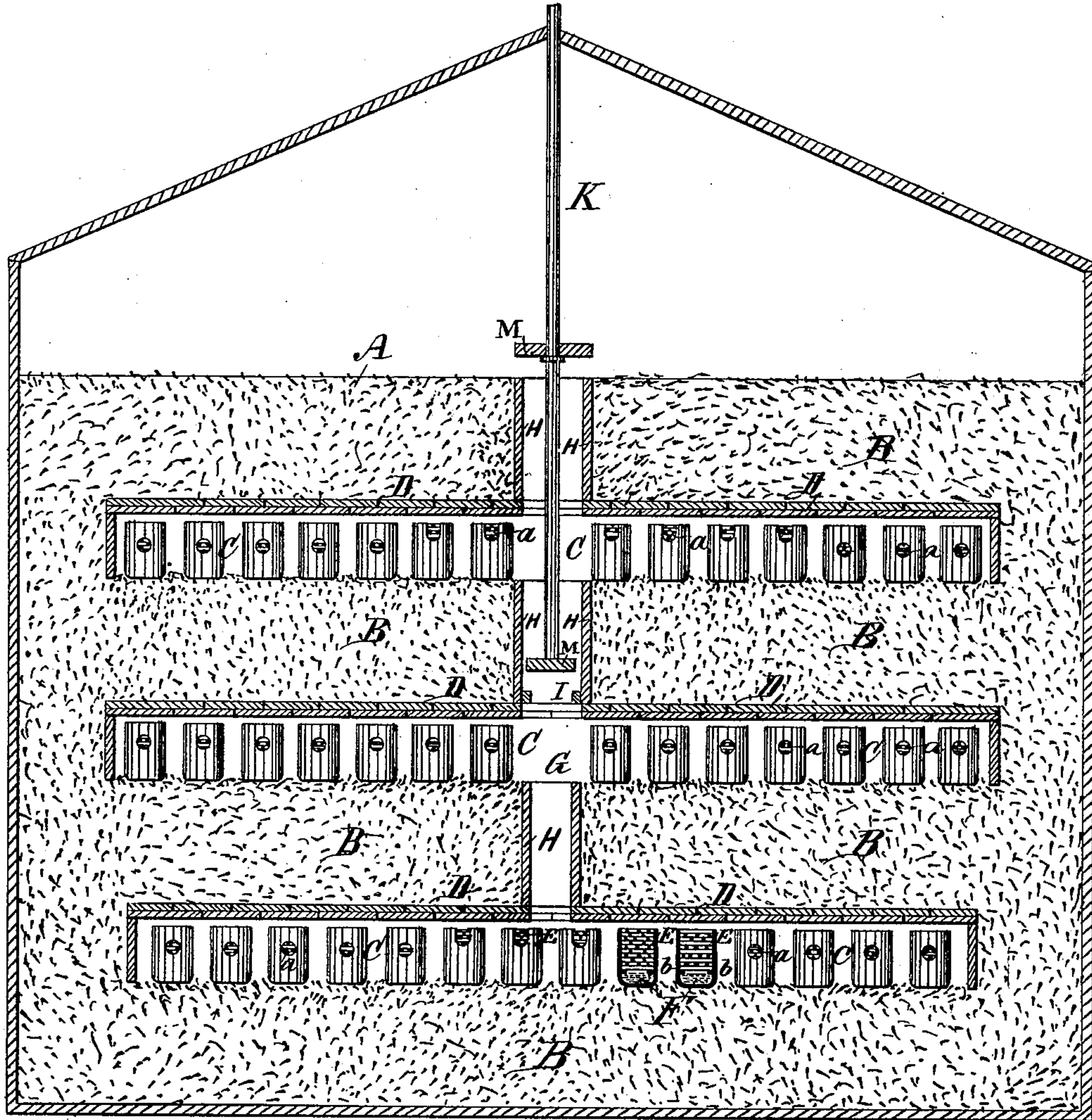
(No Model.)

J. B. POLLOCK.

VENTILATING APPARATUS FOR WHITE LEAD STACKS.

No. 247,105.

Patented Sept. 13, 1881.



WITNESSES:

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JAMES B. POLLOCK, OF PORT RICHMOND, NEW YORK.

VENTILATING APPARATUS FOR WHITE-LEAD STACKS.

SPECIFICATION forming part of Letters Patent No. 247,105, dated September 13, 1881.

Application filed June 23, 1881. (No model.)

To all whom it may concern:

Be it known that I, JAMES B. POLLOCK, of Port Richmond, Richmond county, New York, have invented a new and Improved Ventilating Apparatus for White-Lead Stacks, of which the following is a specification.

The drawing represents a vertical sectional elevation of my improved lead-corroding stack or bed.

10 In the drawing, A represents the corroding bed or stack; B, the spent tan-bark or other material used in quickening the action of the corroding medium.

15 C C represent the earthen pots, set in tiers upon the tan-bark B, and provided with ventilating-holes *a* in their sides, and with internal projections, *b*, for the buckles of lead to rest upon; and D represents the board coverings of the said pots C C.

20 E E represent leaden buckles in the pots C C, and F represents the acetic acid or other corroding-liquid in the bottom of pots C C.

G represents the central ventilating-flue, formed vertically in the bed or stack A; and 25 H is the flue-lining, preferably constructed of boards, and made in sections, each of which extends from the covering D of one tier of pots, C C, to the bottom of the next tier above, excepting the upper section, whose top extends 30 above the surrounding tan-bark B B. By this lining H it will be seen that the tan-bark B is prevented from falling into the flue G. At as many points as are desirable a collar, I, that serves as a valve-seat, is secured in the lining H. 35 K is the valve-rod, having secured upon it, at

suitable distances apart, as many valves M as are required, the inner valve M being relatively small, to fit upon and cover the openings in the valve-seats I, while the upper valve M is large enough to cover the top of the lining H. 40

It will be seen that by moving the rod and valves K M upward the ventilation may be made sufficiently free, while by moving them down the ventilation may be altogether checked 45 or diminished at will, and in this respect this improved stack or bed has a great advantage over all others.

I do not confine myself to this precise construction of flue-lining, for, instead of being 50 constructed in sections, as shown, it may be continuous, and provided with perforations at each tier of corroding-pots, and the said flue-lining may be made tapering, if desired.

Having thus described my invention, I claim 55 as new and desire to secure by Letters Patent—

In a white-lead corroding stack or bed, the combination, with the tiers C and boards D, of the boards H, lining the central ventilating-flue, G, which are made in sections, extending 60 from the boards D of one tier to the bottom of the next tier above, and provided with a large outer valve and smaller inner valve, M, substantially as shown, and for the purpose described.

JAMES BENJAMIN POLLOCK.

Witnesses:

JAMES WADE,
GEO. H. ROBERTS.