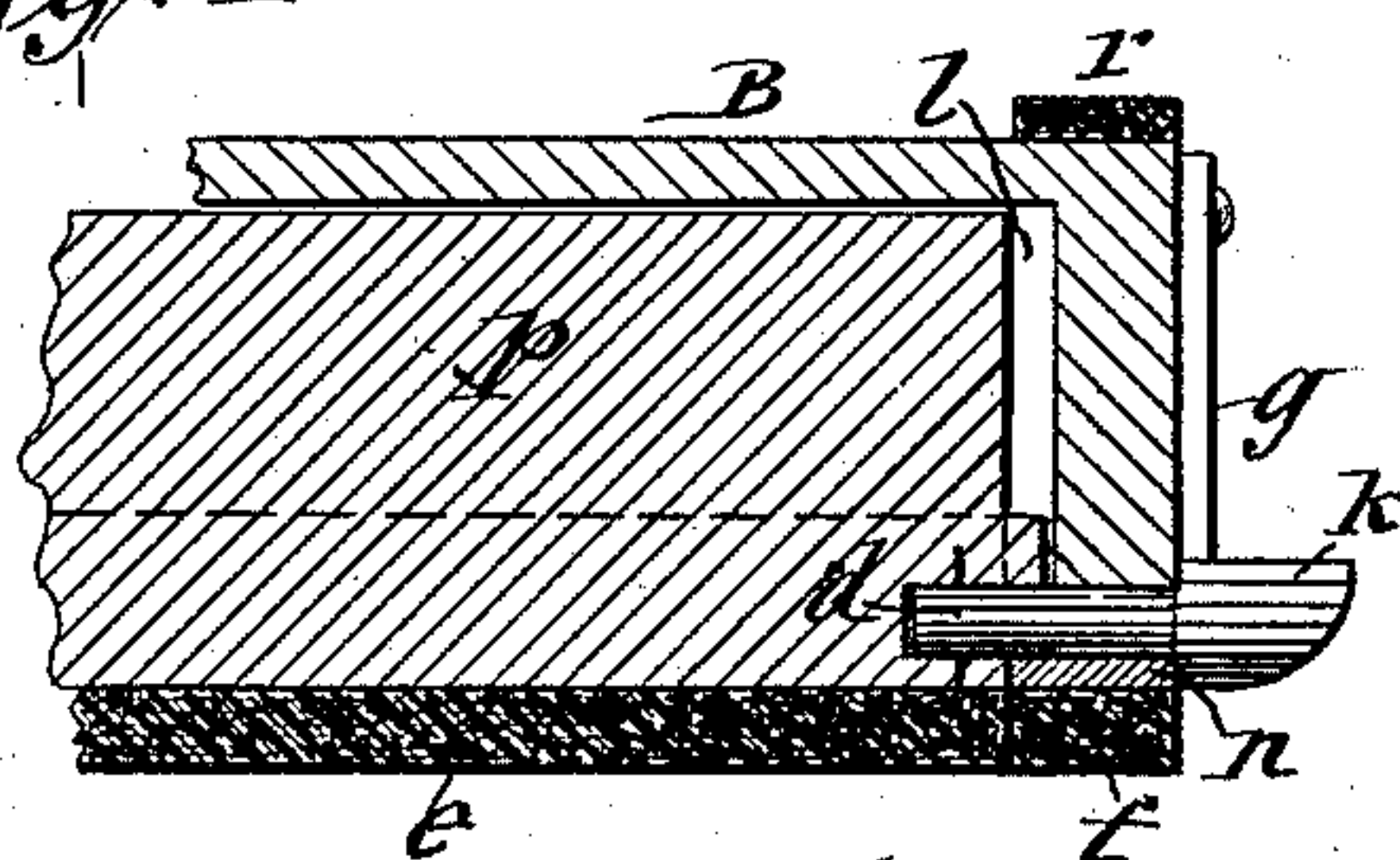
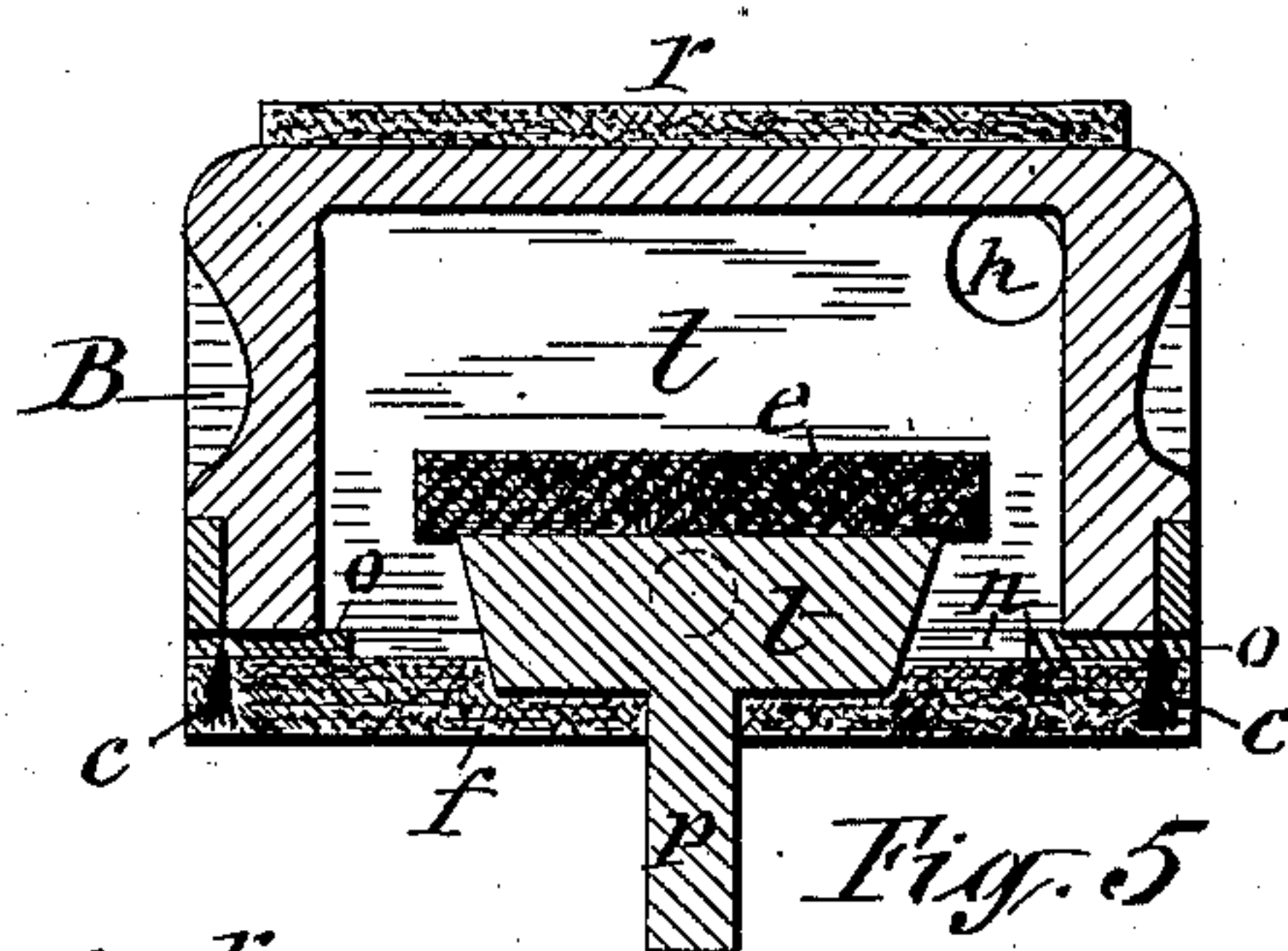
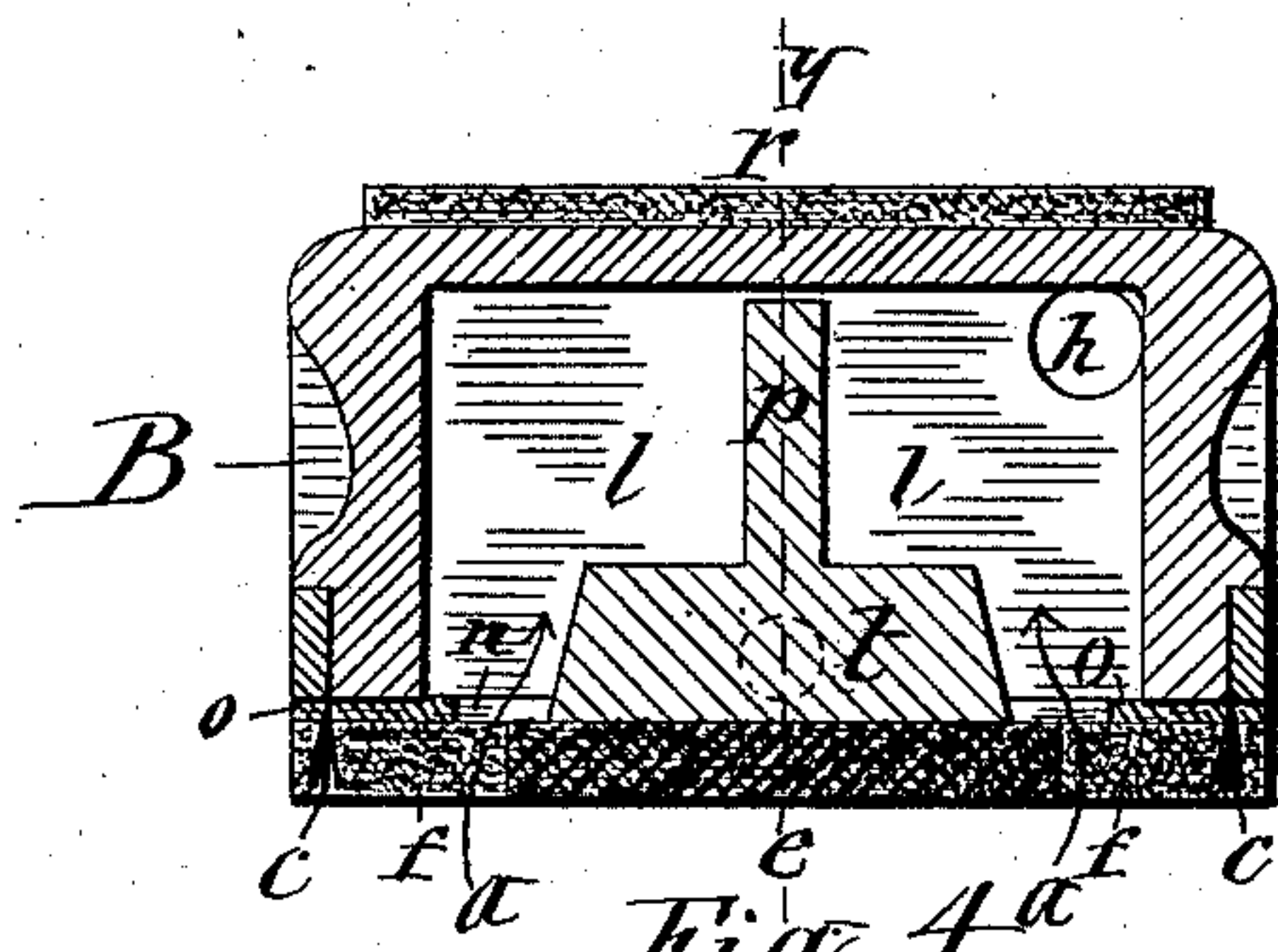
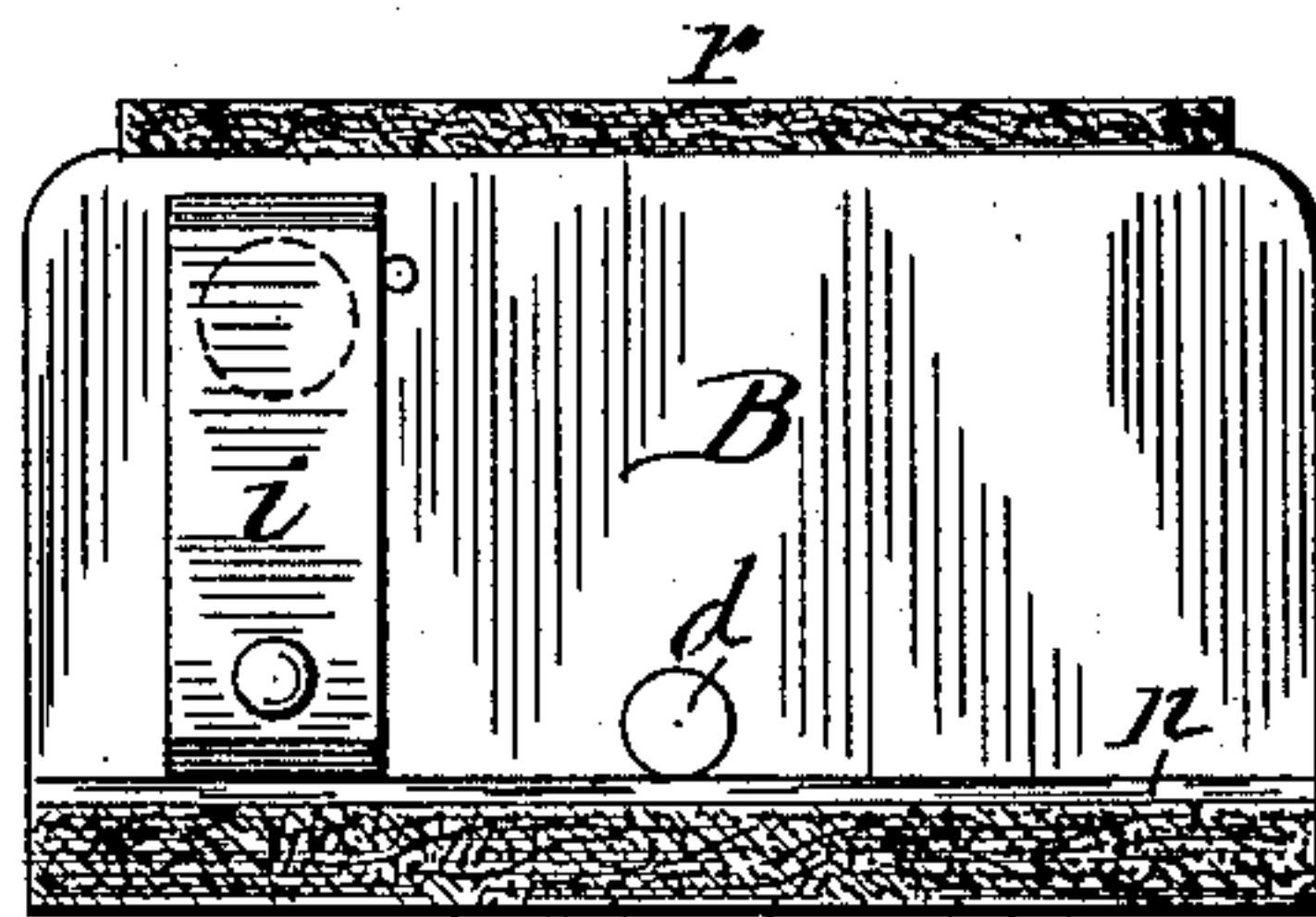
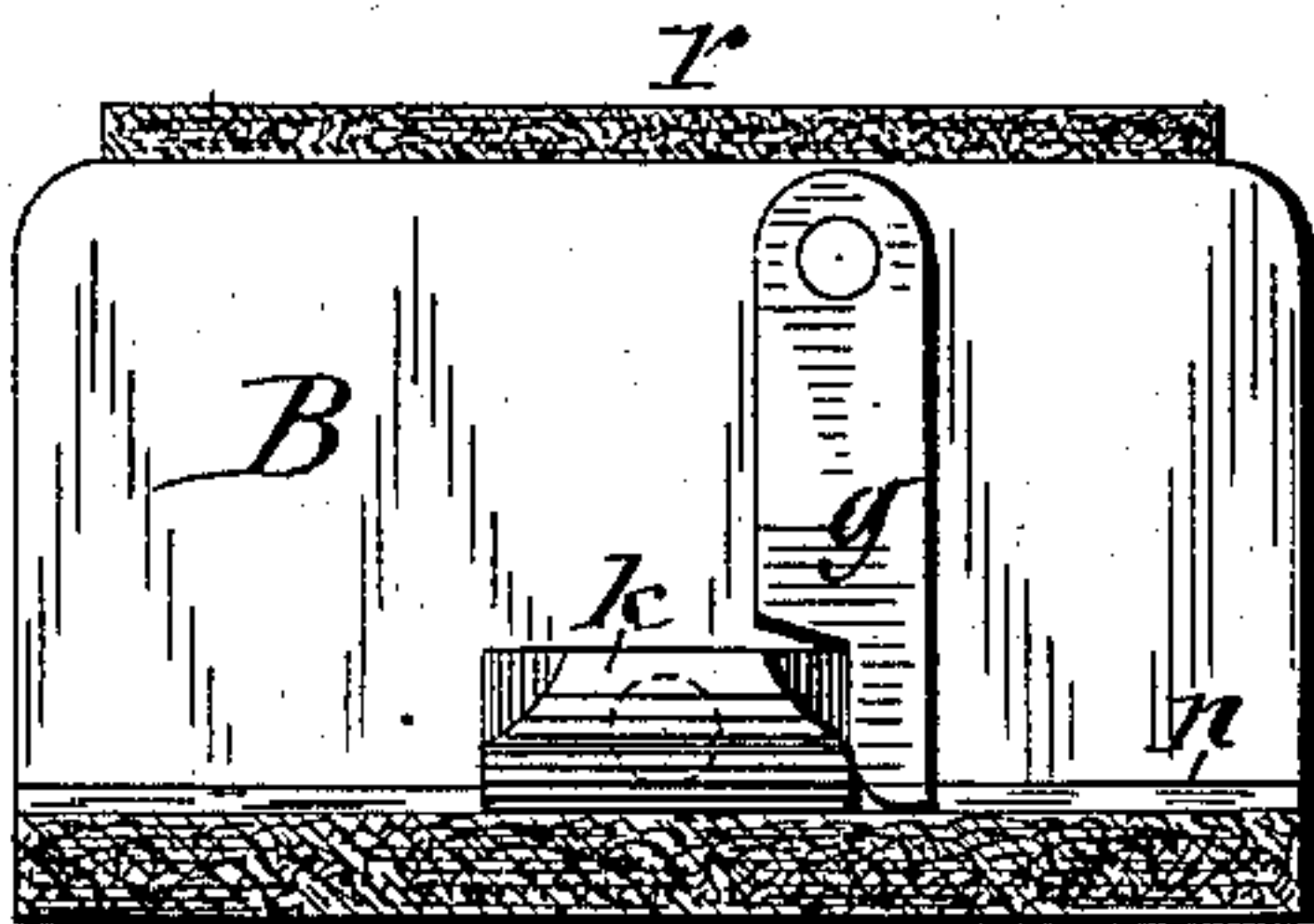
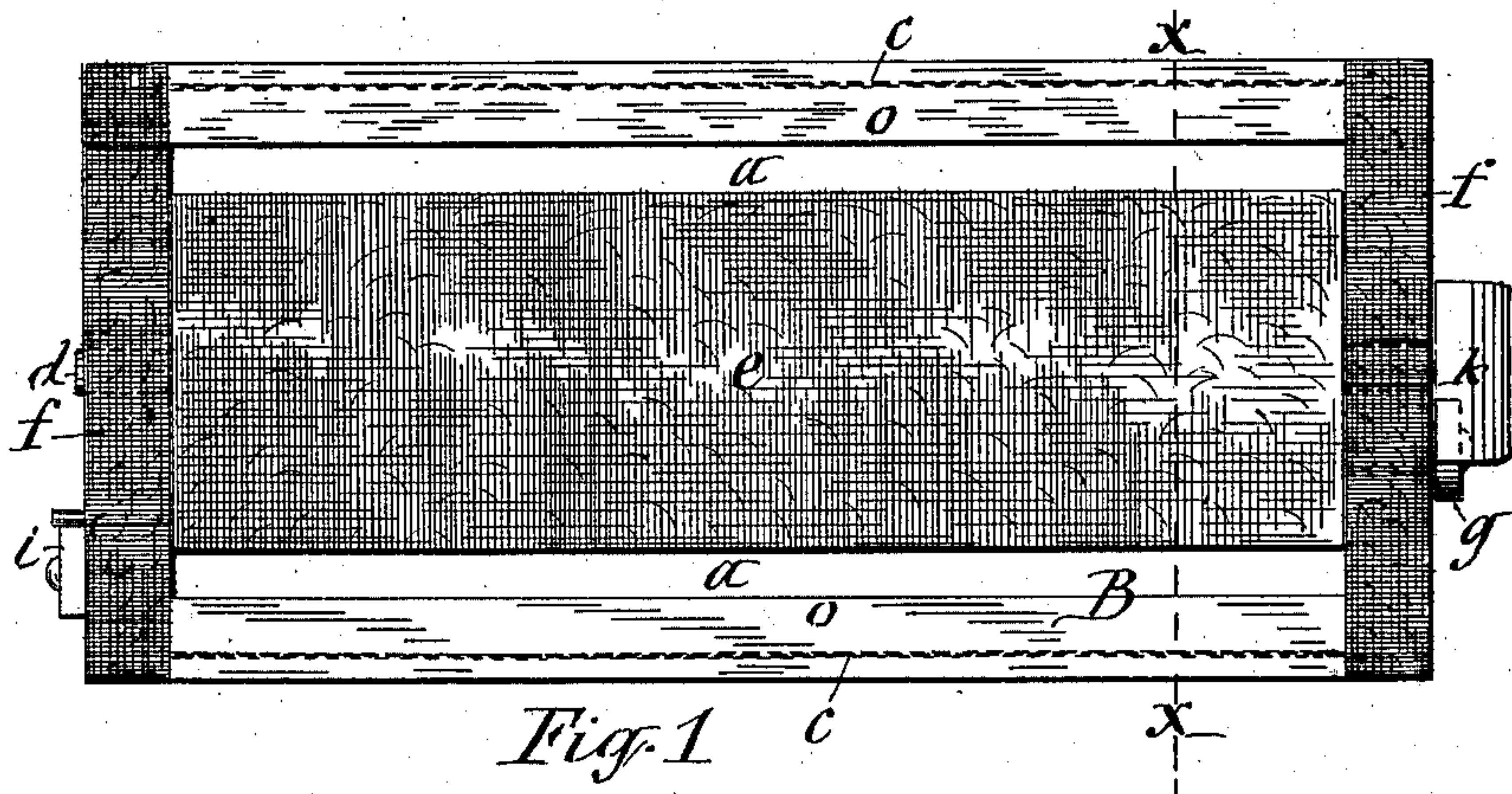


(No Model.)

W. F. JONES.
BLACKBOARD ERASER.

No. 406,650.

Patented July 9, 1889..



WITNESSES:

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UNITED STATES PATENT OFFICE.

WALTER F. JONES, OF PARISH, ASSIGNOR OF ONE-HALF TO C. W. BARDEEN,
OF SYRACUSE, NEW YORK.

BLACKBOARD-ERASER.

SPECIFICATION forming part of Letters Patent No. 406,650, dated July 9, 1889.

Application filed June 20, 1888. Serial No. 277,697. (No model.)

To all whom it may concern:

Be it known that I, WALTER F. JONES, of Parish, in the county of Oswego and State of New York, have invented a new and useful
5 Improvement in Blackboard-Erasers, of which the following is a specification.

This invention consists in an improved construction of a blackboard-eraser which is adapted to collect the dust removed from the
10 blackboard in the operation of the eraser, and which is readily cleaned when desired, all as hereinafter more fully described, and specifically set forth in the claims.

In the annexed drawings, Figure 1 is a face
15 view of an eraser embodying my improvements. Figs. 2 and 3 are views of opposite ends of the said eraser. Fig. 4 is a transverse section on line *x x*, Fig. 1. Fig. 5 is a transverse section showing the eraser proper
20 in its inverted position; and Fig. 6 is a portion of a longitudinal section on line *y y*, Fig. 4.

Similar letters of reference indicate corresponding parts.

25 B denotes the handle of my improved blackboard-eraser, which handle is elongated and formed with a longitudinal cavity in its working side, which cavity constitutes the dust-receptacle *l*, for collecting the dust removed
30 from the blackboard during the operation of the eraser.

e represents the eraser proper or main eraser, consisting of a strip of felt secured to a block
35 *t*, which occupies the longitudinal central portion of the receptacle *l* and is pivoted to opposite ends of the receptacle, said eraser being of such a width as to leave dust-entrances
40 *a a* along opposite sides of the eraser. By means of a tongue *p*, projecting from the back of the eraser-block *t*, the dust-receptacle is divided into two compartments, each of which is provided with one of the dust-entrances *a*. To one of the pivots of the block *t* is attached
45 a thumb-piece *k*, by which to turn said block, so as to invert the eraser *e* when desired to remove the dust from the receptacle *l*, as represented in Fig. 5 of the drawings.

To the outer end of the handle B is pivoted
50 the latch *g*, which is adapted to engage the thumb-piece *k*, and thereby lock the eraser *e*

in its operative position, as represented in Figs. 2 and 6 of the drawings.

In order to insure the collection of the dust in the receptacle *l*, I attach to the end edges of the receptacle thin wooden strips *n n*,
55 which project inward, so as to form ledges, which prevent the dust from falling out of the receptacle during the operation of the eraser, and to these wooden strips I secure felt strips *f f*, which extend across the ends
60 of the dust-entrances *a a* and across the ends of the side edges of the dust-receptacle, as illustrated in Fig. 1 of the drawings, said felt strips being flush with the face of the
65 felt of the eraser *e*, and thus the aforesaid extensions of the felt strips *f f* form guards which further prevent the dust from being thrown out of the receptacle *l* during the operation of the eraser.

In order to further insure the collection of
70 the dust in the receptacle *l*, I attach to the side edges of the receptacle valances *c c*, extending lengthwise thereof. One end of the receptacle *l*, I provide with a discharge-opening
75 *h*, preferably near the upper corner thereof, as illustrated in Figs. 4 and 5 of the drawings, and to the exterior of the handle B is pivoted or otherwise suitably connected a
80 gate *i*, which is adapted to close the aforesaid discharge-opening, as shown in Fig. 3 of the drawings. When it is desired to eliminate
85 the dust from the receptacle *l*, the said gate is opened, and by rapping the handle on its back while holding it in an inverted position the dust is thrown out of the discharge-opening
90 *h*. In order to deaden the noise incident to this rapping, I attach to the back of the handle B a cushion *r*, of felt or other suitable elastic material.

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

1. In a blackboard-rubber, the handle of which consists of a dust-receptacle, the eraser
100 situated centrally in the said receptacle, with dust-entrances at opposite sides of the eraser, as set forth and shown.

2. A blackboard-rubber consisting of a handle formed with a dust-receptacle, a main
eraser situated in said receptacle and extend-

ing from end to end thereof, with dust-entrances at opposite sides of the eraser, and eraser-strips extending across the ends of the main eraser and ends of the aforesaid dust-entrances, substantially as described and shown.

3. In combination with the handle formed with a dust-receptacle, the eraser situated in said receptacle and extending from end to end thereof, with dust-entrances at opposite sides of said eraser, and a tongue projecting from the back of the eraser and extending lengthwise thereof, substantially as and for the purpose set forth.

4. In combination with the handle formed with a dust-receptacle, the eraser situated in said receptacle and pivoted to opposite ends thereof, dust-entrances between the sides of the eraser and sides of the receptacle, and valances along the edges of the receptacle, substantially as described and shown, for the purpose set forth.

5. In combination with the handle formed with a dust-receptacle and an eraser occupying the longitudinal central portion of said receptacle, with dust-entrances along the sides of the eraser, cleats attached to the edges of the dust-receptacle and projecting part way over the dust-entrances, substantially as described and shown.

6. In combination with the handle formed with a dust-receptacle, the eraser occupying the longitudinal central portion of said receptacle and pivoted to opposite ends thereof, a thumb-piece attached to one of the pivots of the eraser, and a latch connected to the end of the handle and adapted to engage the thumb-piece, and thereby lock the eraser in its position, as set forth.

7. In a blackboard-eraser, the combination of the handle, formed with a dust-receptacle and with a discharge-opening at the end of said receptacle, and a gate connected to the handle and adapted to close said opening, as set forth.

8. The combination of the handle formed with a dust-receptacle, the eraser occupying the longitudinal central portion of the receptacle, with dust-entrances at opposite sides of the eraser, a discharge-opening in the corner of one end of the receptacle, and a cushion on the back of the handle to receive the concussion when rapping the handle to expel the dust from the receptacle, substantially as described.

WALTER F. JONES.

Witnesses:

FRANK BUTLER,
CHARLES LE CLAIR.