

906,983.

T. ADAMS.
BLACKBOARD ERASER CLEANER.
APPLICATION FILED JULY 30, 1907.

Patented Dec. 15, 1908.
3 SHEETS—SHEET 1.

Fig. 1.

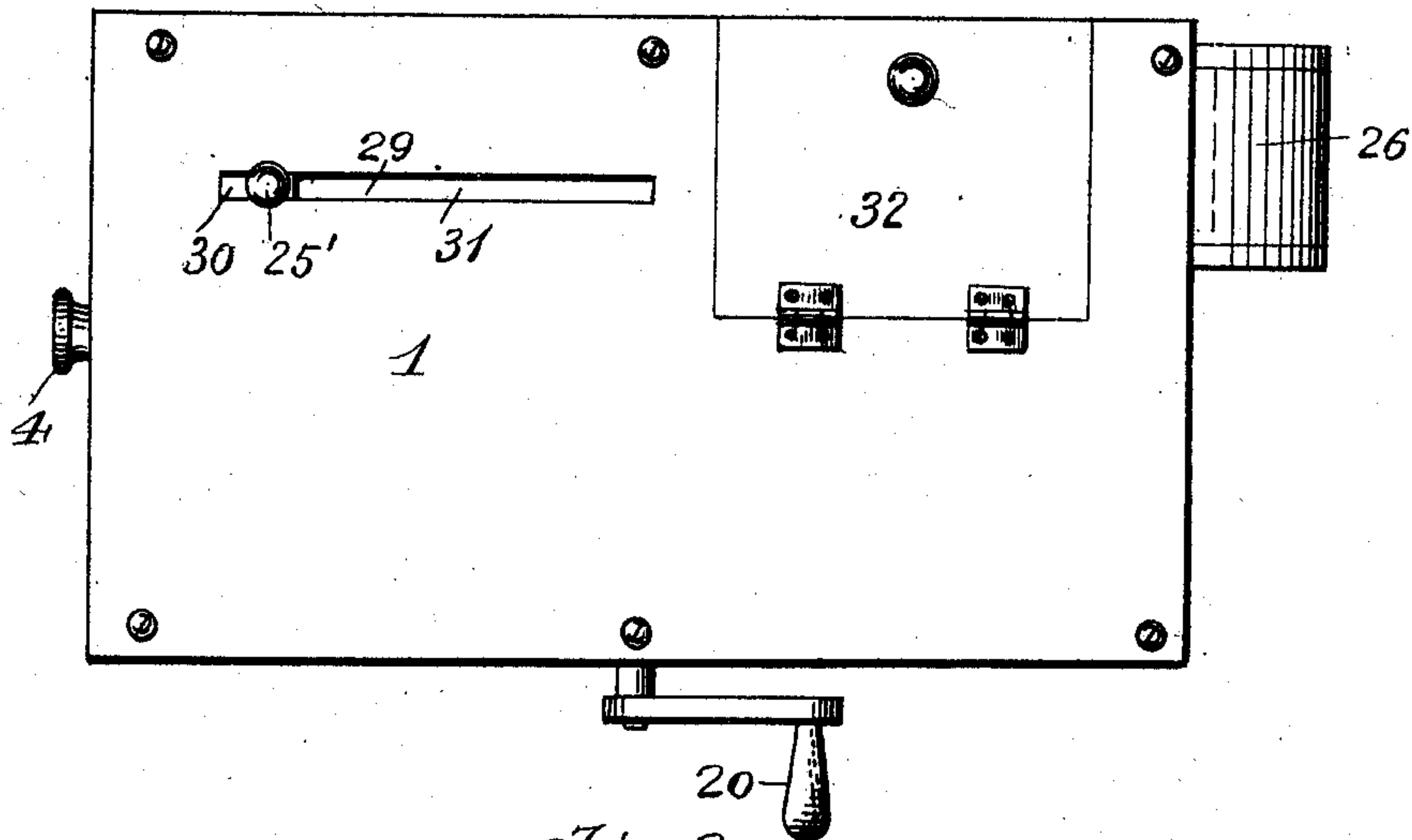
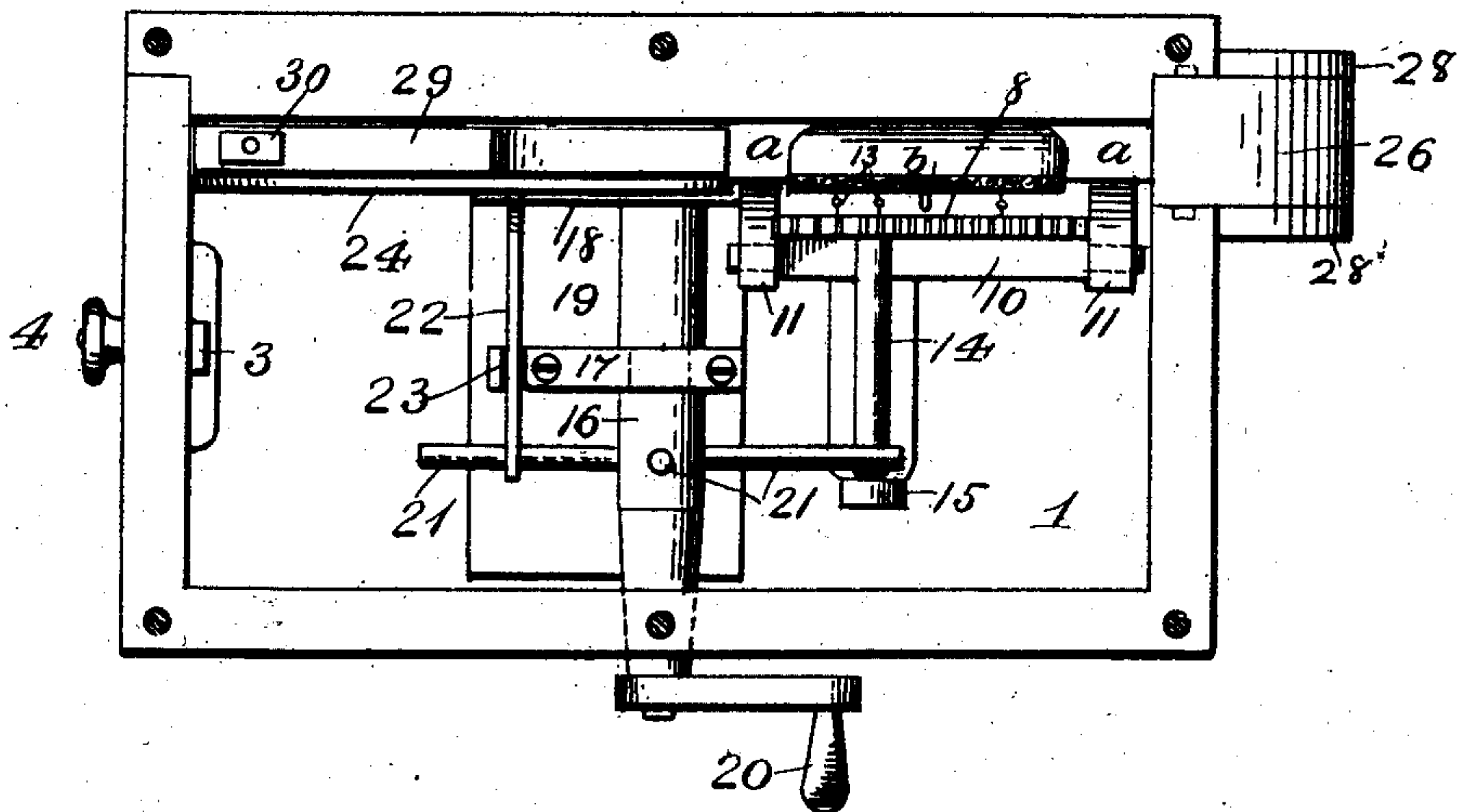


Fig. 2.



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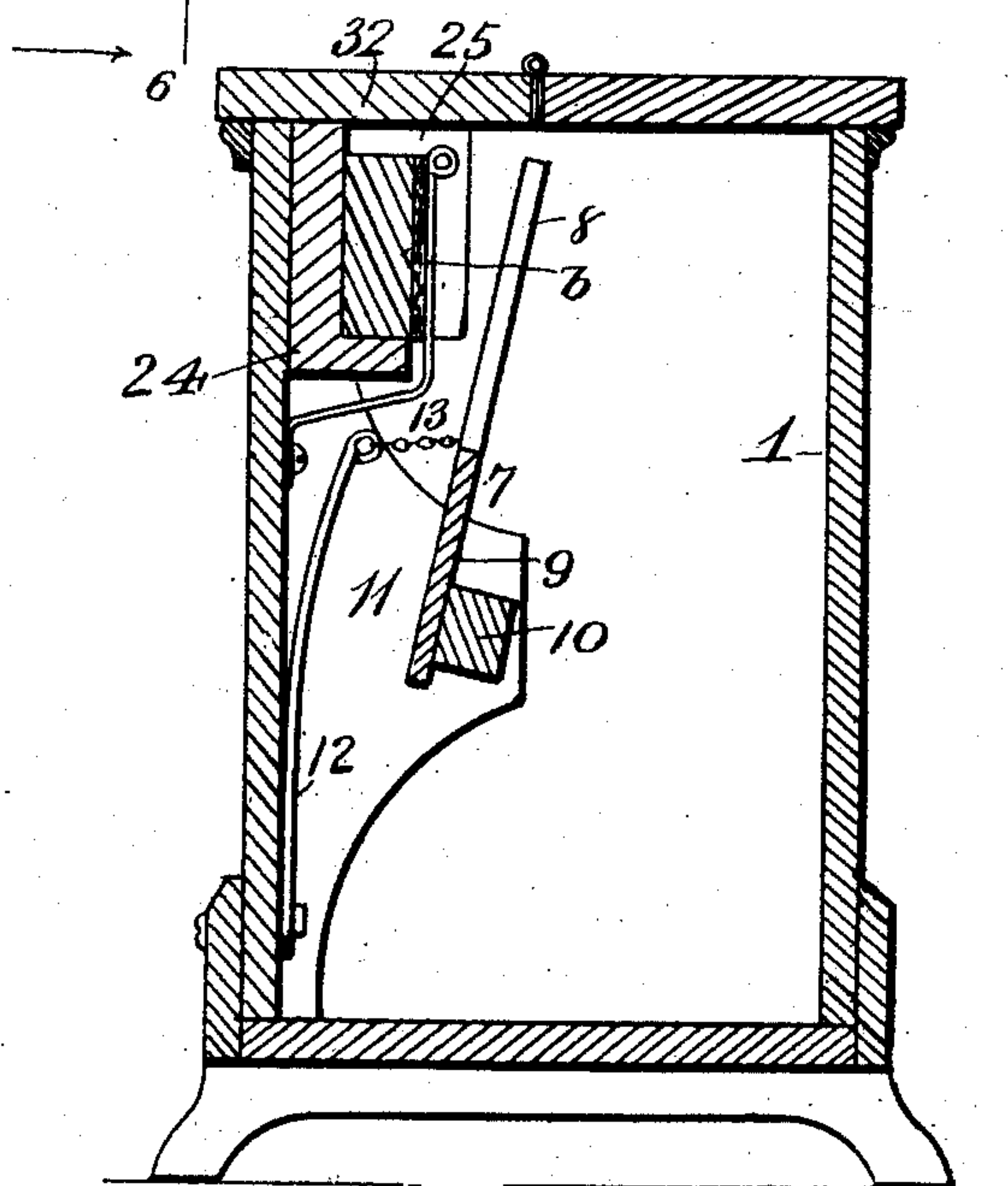
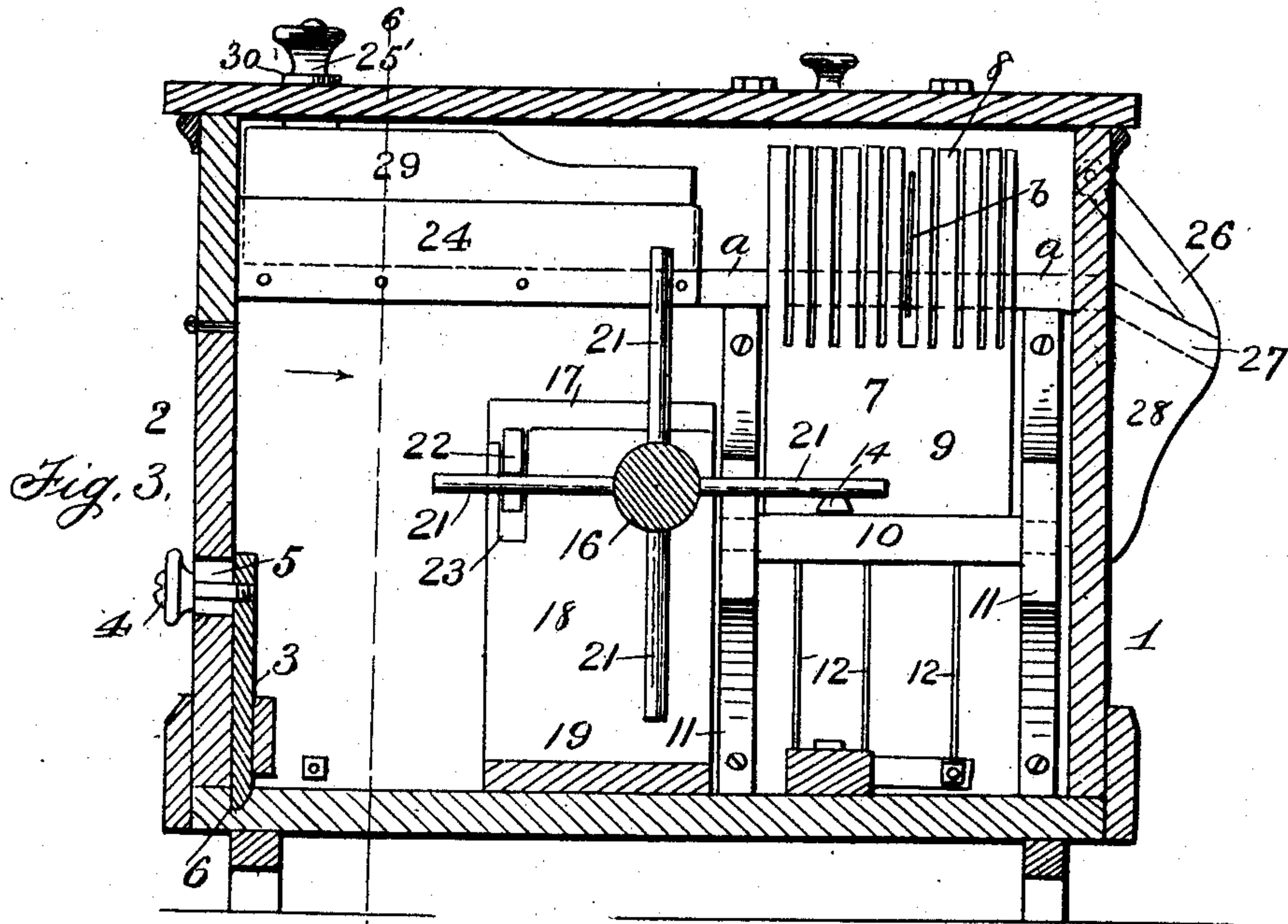
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3 SHEETS—SHEET 2.



Inventor:

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S. L. Buckner
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Fig. 4.

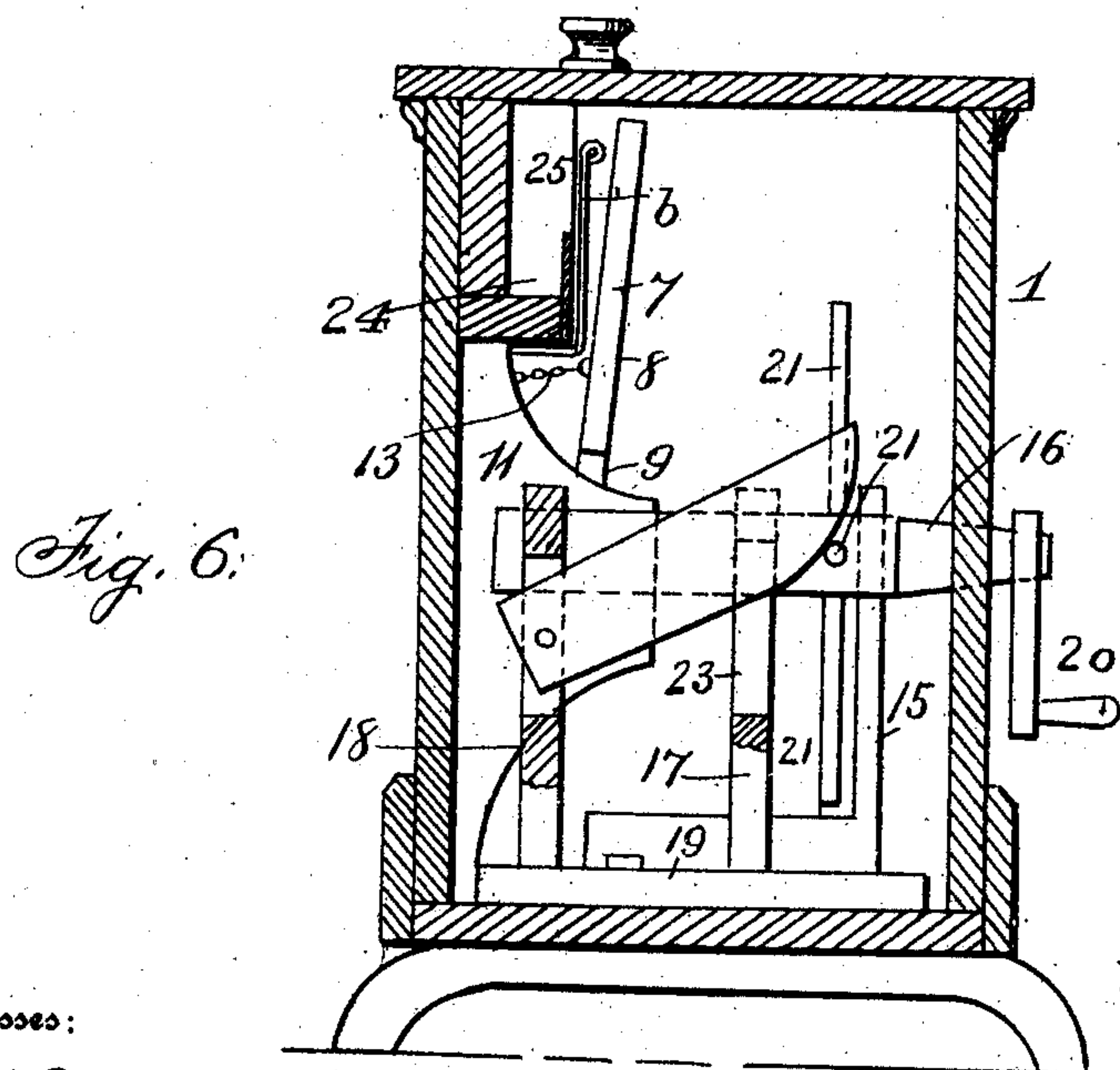
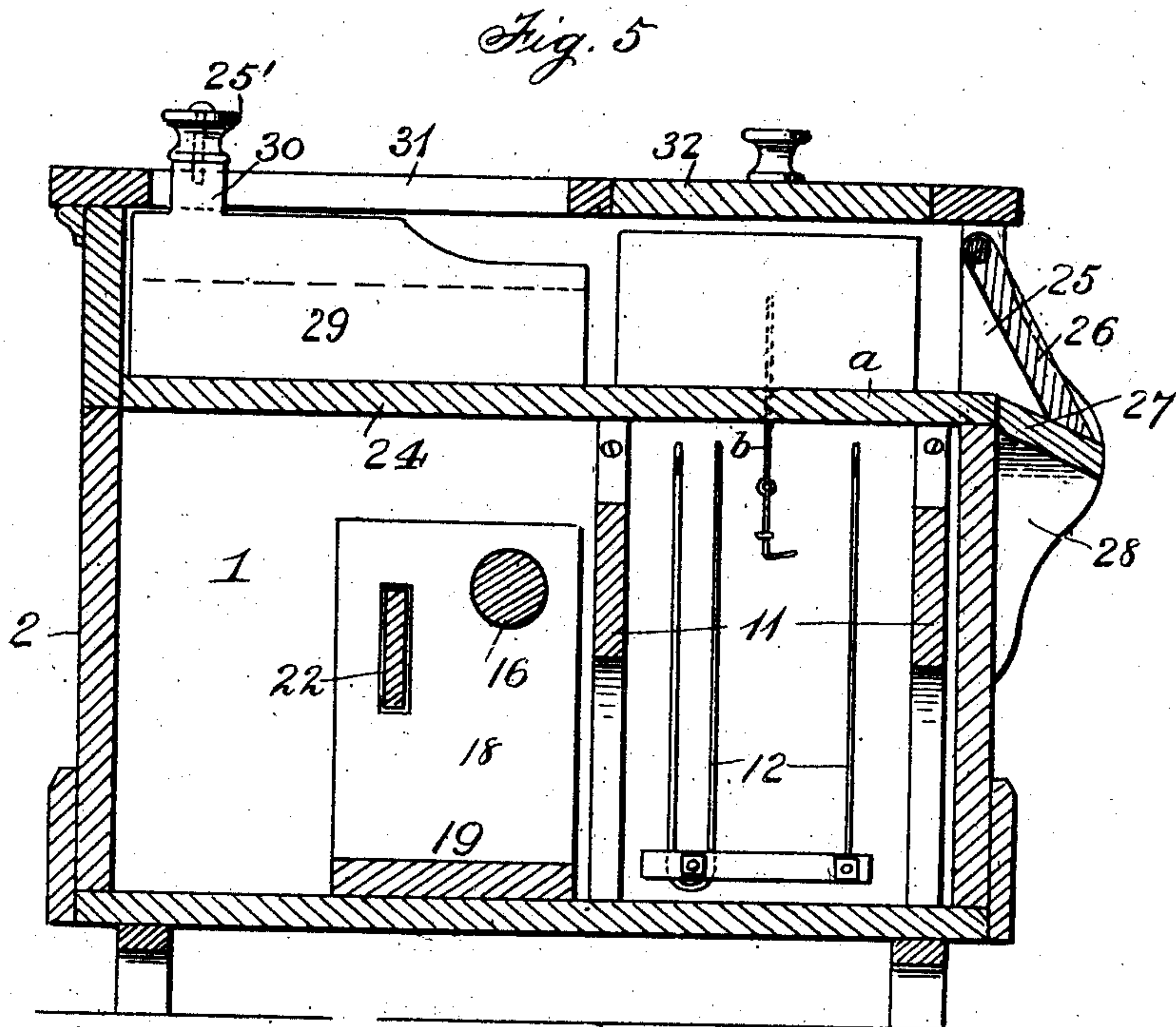
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

THOMAS ADAMS, OF HIGHLAND, NEW YORK.

BLACKBOARD-ERASER CLEANER.

No. 906,983.

Specification of Letters Patent.

Patented Dec. 15, 1908.

Application filed July 30, 1907. Serial No. 386,219.

To all whom it may concern:

Be it known that I, THOMAS ADAMS, a citizen of the United States, residing at Highland, in the county of Ulster and State of New York, have invented certain new and useful Improvements in Blackboard-Eraser Cleaners, of which the following is a specification.

My invention relates to improvements in what may be termed blackboard eraser cleaners.

Objects of my invention are to provide for readily and effectively cleaning, as noted, erasers for blackboards and to accomplish that end in a simple, economic and expeditious manner, and it therefore consists of certain features or instrumentalities substantially as hereinafter fully disclosed and pointed out by the claims.

In the accompanying drawings illustrating the preferred embodiment of my invention—Figure 1 is a plan view thereof. Fig. 2 is a horizontal section of the same. Fig. 3 is a vertical longitudinal section of the contrivance. Fig. 4 is a vertical transverse section of the same produced through the beater or cleaner proper. Fig. 5 is also a vertical longitudinal section taken alongside of the blackboard cleaner ejector or pusher, more particularly viewing the latter. Fig. 6 is a transverse section taken on the line 6—6 Fig. 3 looking in the direction of arrow.

In the disclosure of my invention, I provide a suitable closed receptacle or chamber 1 for receiving and containing the chalk-dust as the latter is eliminated by the beating action from the blackboard cleaner, as will more fully presently appear, said receptacle having a suitably hinged end-section 2, to allow, by opening the same, for the ready removal of the accumulation of such chalk-dust. Said hinged section is provided with a sliding latch 3 suitably applied to its inside for vertical movement, and controlled by a knob 4 arranged upon the outside of said hinged section, suitable connection being effected between said sliding latch and said knob, by suitable means, passing through a vertical slot 5 in said end-section, the lower or effective beveled end of said latch being adapted to enter or engage a notch 6 in the receptacle bottom, when said knob is pushed downward. Within said receptacle 1 is suitably positioned in a vertical position a beater or cleaner proper 7 consisting preferably of a series of closely arranged tongues

or fingers 8 formed at their lower ends preferably integral with a solid portion or piece 9 suitably secured to a rock or pivoting bar 10, with its pivots bearing in opposed brackets or cleats 11 secured to the inner surface of said receptacle. Said beater or cleaner proper is held in initial position by the action of spring-wire rods 12 with their lower ends suitably fixed in place and linked or flexibly connected as at 13 with any suitable number of the fingers or tongues 8.

To the pivoting or rock bar 10 is fixed an outstanding arm 14 with its free end opposed to an upright or post 15 fixed to a base piece in turn fixed to the receptacle bottom, as a convenient way of securing said post in place. Arranged alongside of said outstanding arm 14 is a shaft 16 suitably journaled in one side of the receptacle 1 and upright pieces or supports 17, 18, suitably fixed to a base-piece 19 secured to the receptacle bottom. Said shaft, adapted to be operated by a crank-handle 20 fixed to its outer end, from the outside of said receptacle, is equipped with a number or plurality of radial arms or spokes 21 effective as said shaft is actuated by suitably turning said handle, to engage said arm 14 and thus provide for operating the beater or cleaner 7.

In order to prevent reverse movement of said shaft, which, of course, would result in the impairment or breaking of the parts, a drop-dog or latch 22 is suitably pivoted at one end in one of the upright pieces 17, 18, while its opposite end rests in a slot or notch 23 in the upper end of the other of said upright pieces and projects in the plane of the movement or rotation of the arms or spokes 21 and is adapted to swing upward as said spokes move or turn from right to left as said shaft is accordingly operated. Said end of the latch 22 is beveled or reduced upon its lower edge to allow the spokes 21 to readily escape the same as the shaft carrying said spokes or arms is turned from right to left, and thus in that case not interfere with the actuation of the latter.

A suitable trough-like shelf 24 is erected upon the inside of the receptacle 1, with its bottom bar extended as at *a* in front of the fingers of the beater or cleaner 7, whereby the blackboard cleaner placed upon said extended bottom-bar *a* may be exposed or subjected to the beating or whipping action of said fingers or beaters, by simply actuating the crank-handle 20 of the crank-shaft 16 as

will be readily apparent. A suitable up-
standing spring wire rod *b* is fixed at its lower
end to the inside of the receptacle with its up-
per portion adapted to hold the blackboard
5 eraser in place upon the shelf or trough ex-
tension as said eraser is being cleaned or sub-
jected to the beating action of the cleaner
fingers.

In alinement with the supporting exten-
10 sion *a* of the trough or shelf 24, is formed an
opening 25 in one end of the receptacle 1 for
the convenient delivery therethrough of said
eraser after cleaning, said opening, however,
being kept closed by an upward-lifting clo-
15 sure 26 hinged to the outside of said receptacle
and initially standing in an outwardly
and downwardly inclined position, its lower
edge resting upon a correspondingly inclined
ledge or offset 27 secured between cleats or
20 brackets 28 also secured to the outside of
said receptacle, upon opposite sides of said
opening.

A plunger or pusher 29 preferably an ob-
long or rectangular bar with its forward end
25 somewhat reduced, is arranged to slide in the
trough or shelf 24, and is controlled by a han-
dle or knob 25' arranged for manipulation
upon the top portion 30 of the receptacle 1,
the means of connection for said knob with
30 said plunger extending through an elongated
slot 31 in said top portion for permitting the
requisite movement of said plunger as said
knob is grasped and actuated. Said top por-
tion 30 is provided with a trap-door or wicket
35 32 for conveniently placing the blackboard
eraser into said receptacle in place upon the
extension *a* of the trough 24, when the same
is to be cleaned. It will be noted, however,
that, after the cleaning of said blackboard
40 eraser by simply grasping and requisitely
moving the knob 25', the pusher or ejector 29
may be so actuated as to readily eject or de-
liver said eraser cleaned, out through the
opening 25, where it may be readily removed
45 by the hand as will be appreciated.

I claim—

1. A device as described, comprising a re-
ceptacle, a beater arranged therein, means

for the retention in place of a blackboard
eraser for its treatment by the action of said 50
beater, a plunger adapted to effect the re-
lease of said eraser from its retaining means
and having means for its actuation, said re-
ceptacle having in its top portion an elon-
gated slot through which extends the con- 55
necting means between said plunger and said
plunger actuating means, and means for ac-
tuating said beater.

2. A device as described, comprising a re-
ceptacle, a spring actuated beater located 60
therein, a shelf with its bottom portion ex-
tending in front of said beater for the support
of a blackboard eraser for treatment by the
action of said beater, said receptacle having
an opening alining said shelf bottom portion 65
or extension, and a plunger arranged for
movement in said shelf and effective for
ejecting said blackboard eraser through said
opening, and means for actuating said
beater. 70

3. A blackboard eraser cleaner comprising
a suitable receptacle having a ledge adapted
to receive an eraser and provided with an in-
let and outlet, one over the ledge to receive
the eraser, and one in alinement with the 75
ledge for its ejection from the receptacle, and
a beater comprising a comb-shaped pivotally
supported device, and means for imparting
vibrations to said beater.

4. A blackboard eraser cleaner comprising 80
a suitable receptacle having a ledge adapted
to receive an eraser and provided with an in-
let and outlet, one over the ledge to receive
the eraser, and one in alinement with the
ledge for its ejection from the receptacle, a 85
beater comprising a comb-shaped pivotally
supported device, means for imparting vi-
brations to said beater, and means for pre-
venting a reverse motion to said actuated
means. 90

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

THOMAS ADAMS.

Witnesses:

LEWIS B. MAYNARD,
ANDREW WRIGHT LENT.