

No. 618,705.

Patented Jan. 31, 1899.

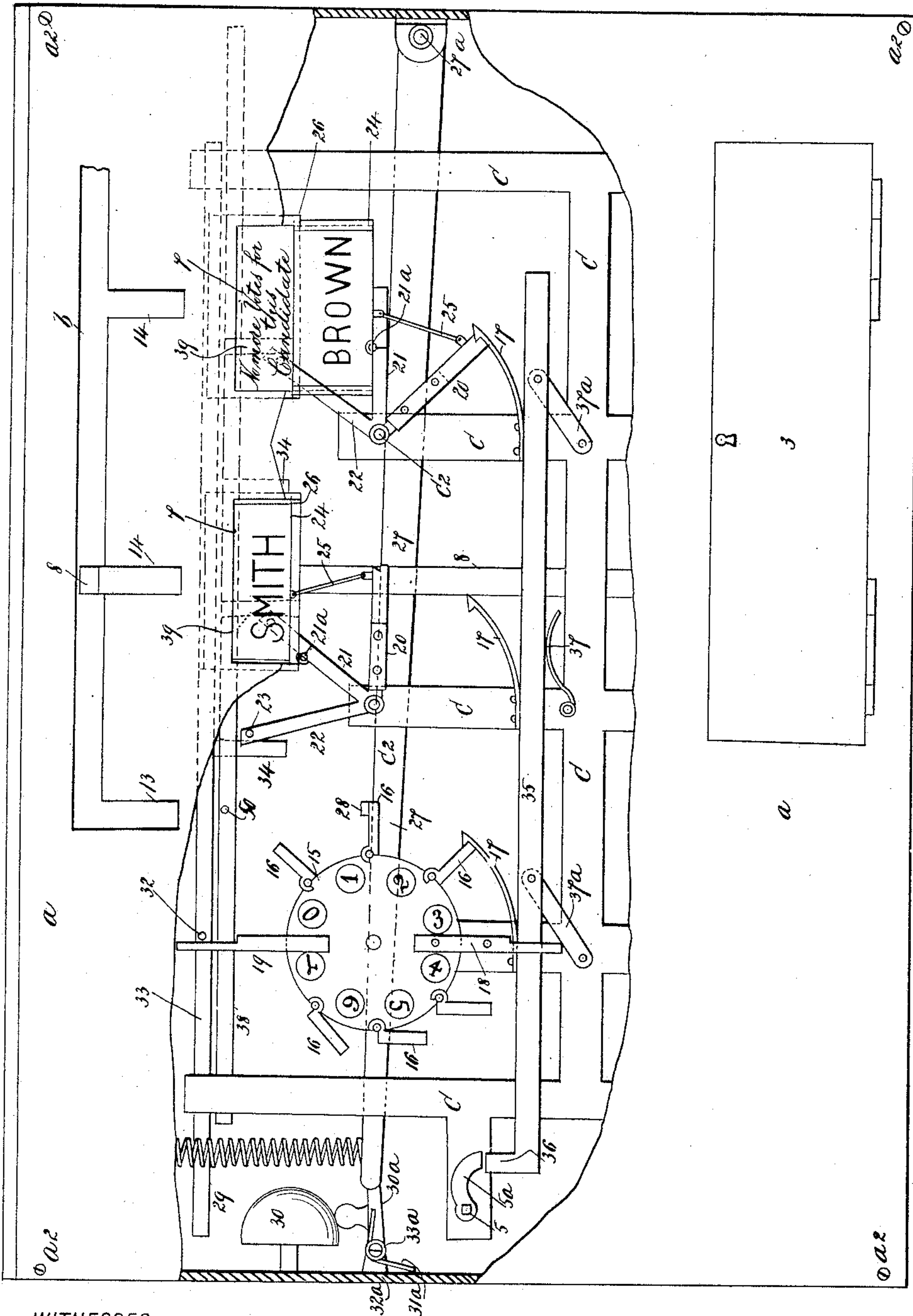
E. J. MEAD.  
VOTING MACHINE.

(Application filed Oct. 12, 1897.)

(No Model.)

5 Sheets—Sheet 1.

FIG. 1.



WITNESSES

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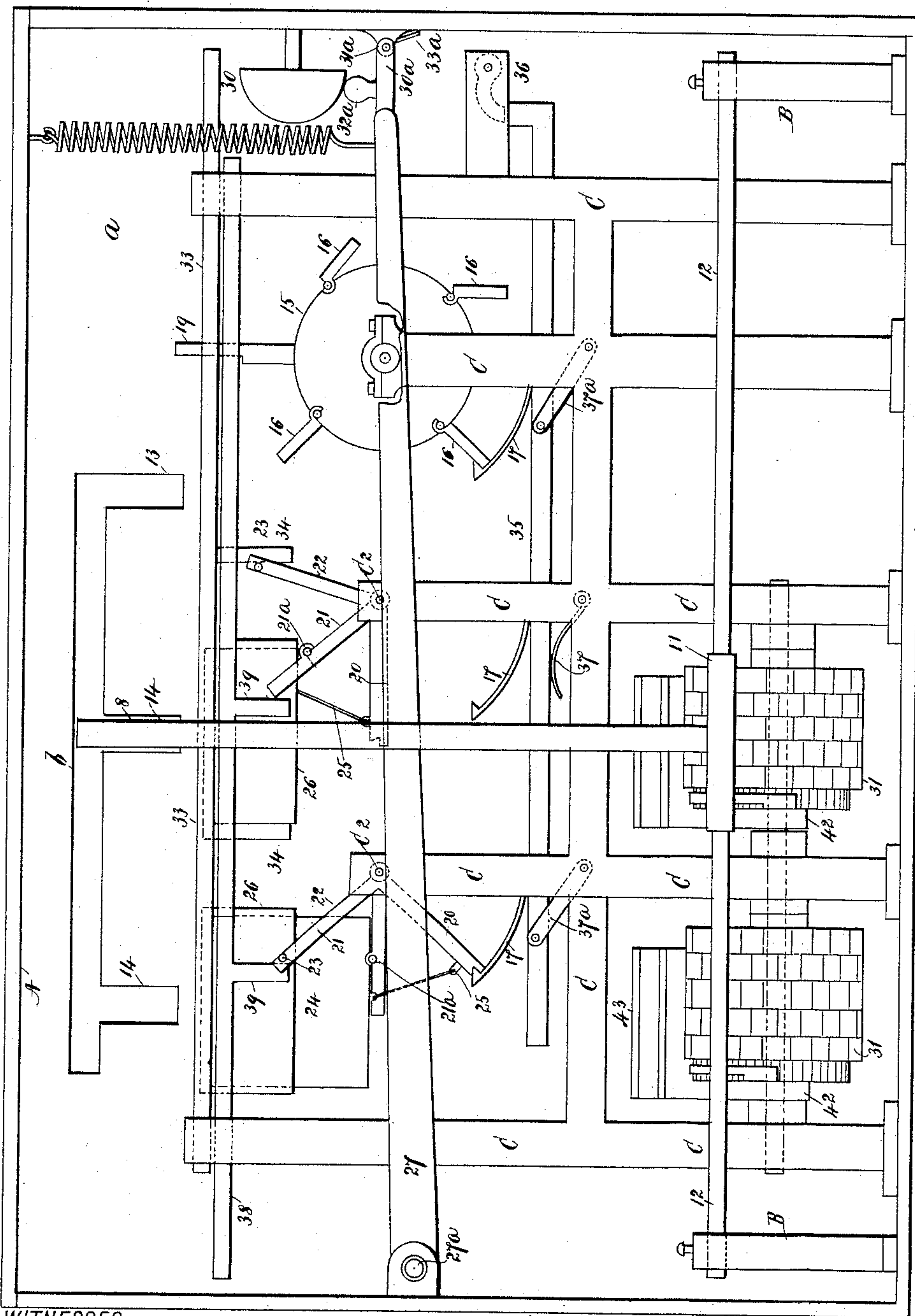
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5 Sheets—Sheet 2.



WITNESSES

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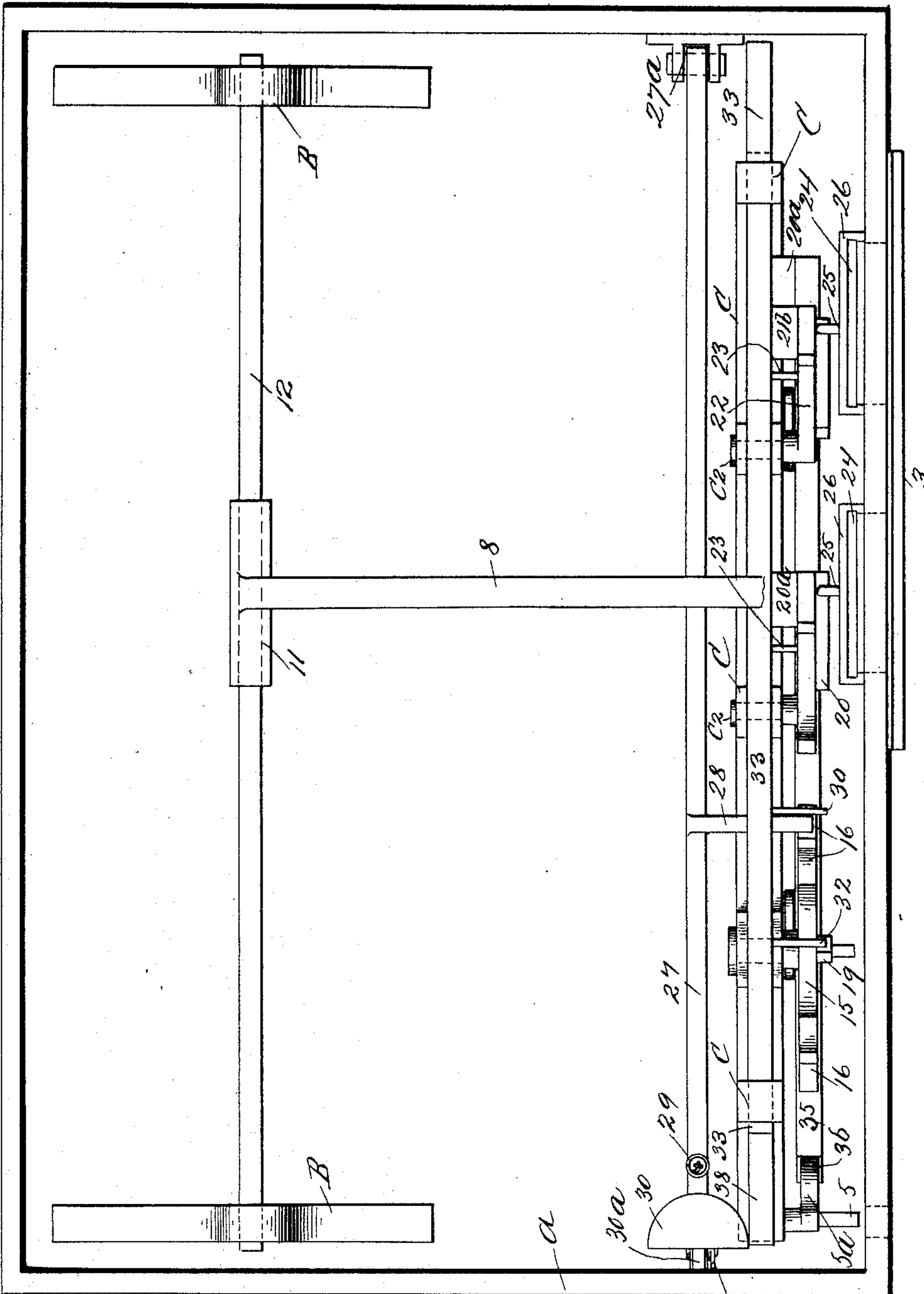
E. J. MEAD.  
VOTING MACHINE.

(Application filed Oct. 12, 1897.)

(No Model.)

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Fig. 3



WITNESS

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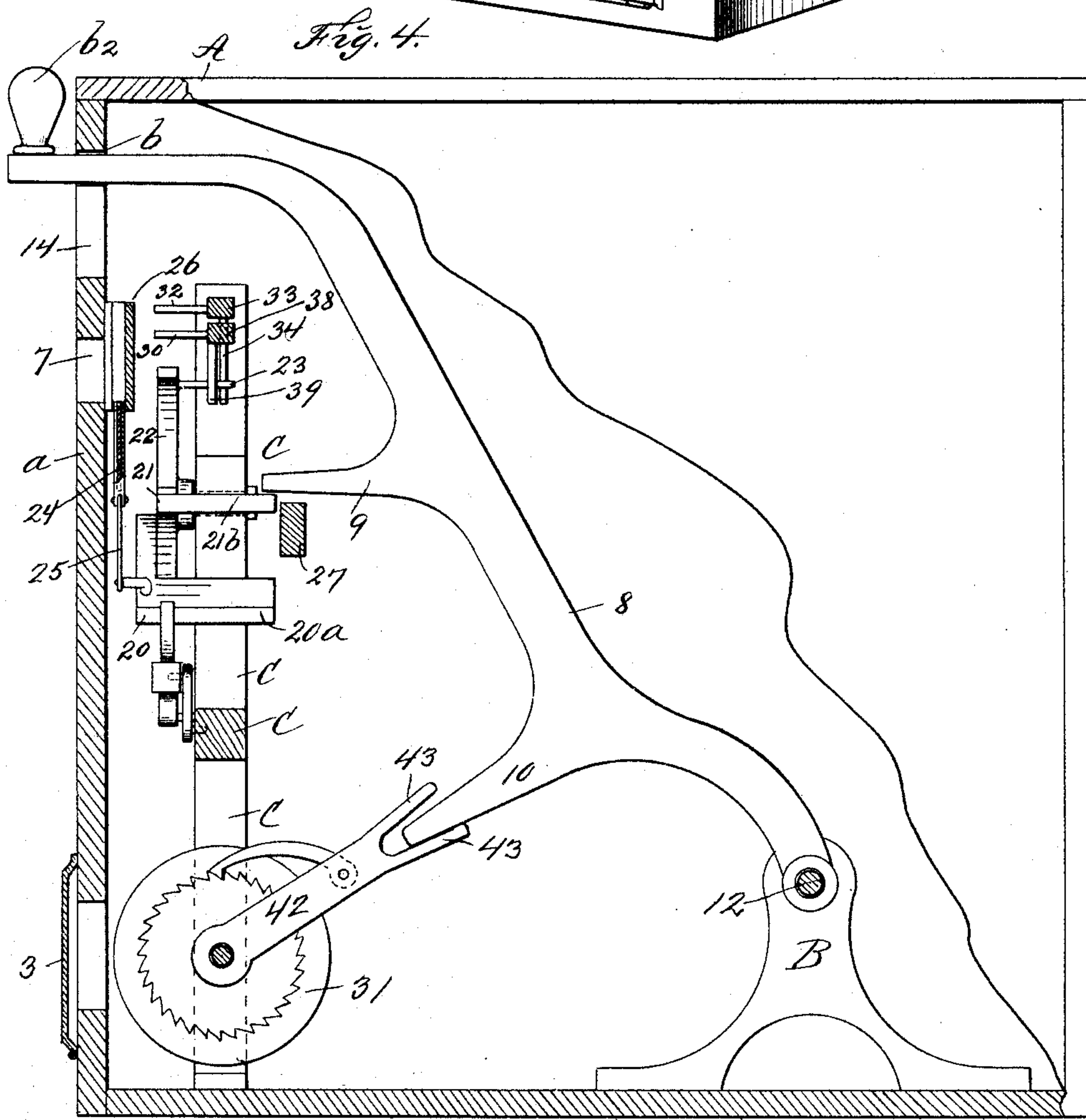
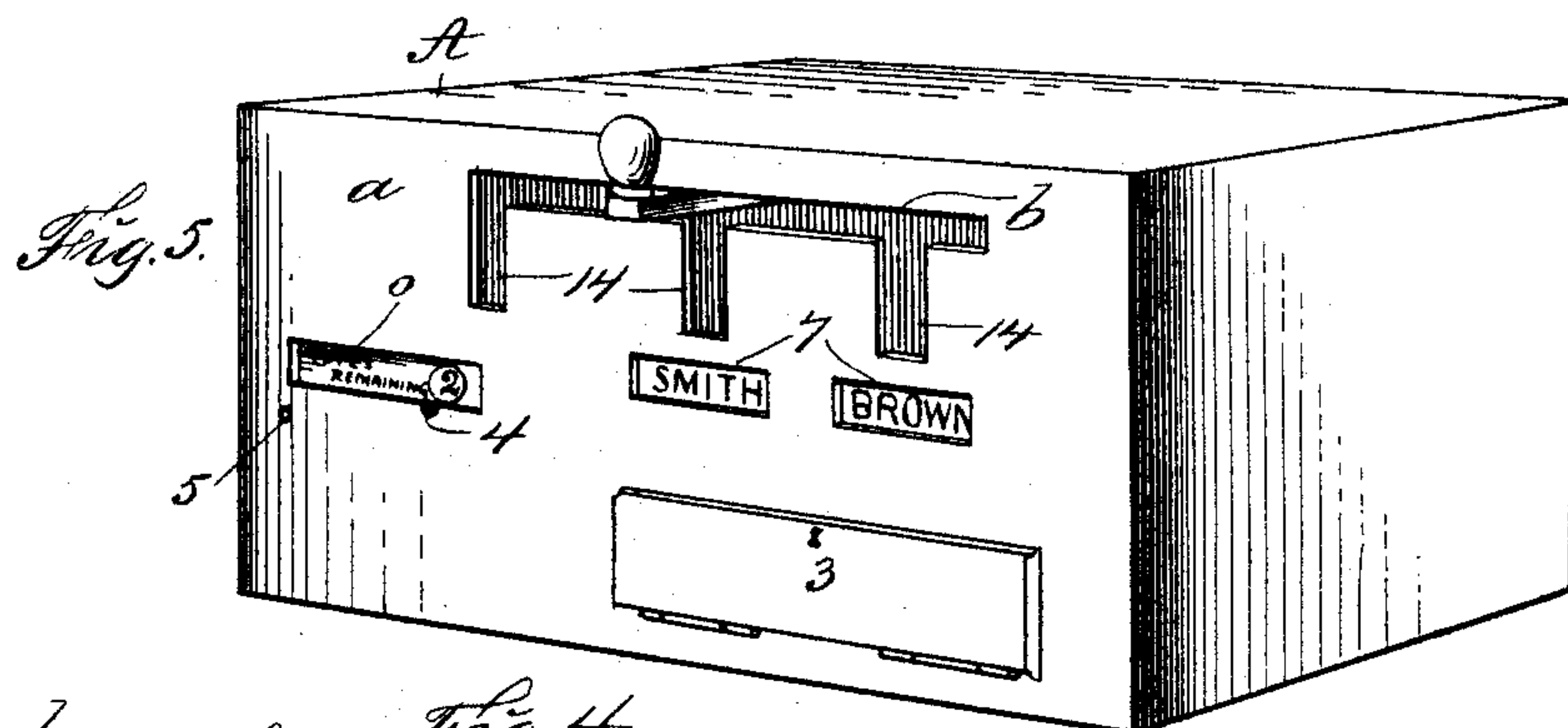
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VOTING MACHINE.

(Application filed Oct. 12, 1897.)

(No Model.)

5 Sheets—Sheet 4.



WITNESS

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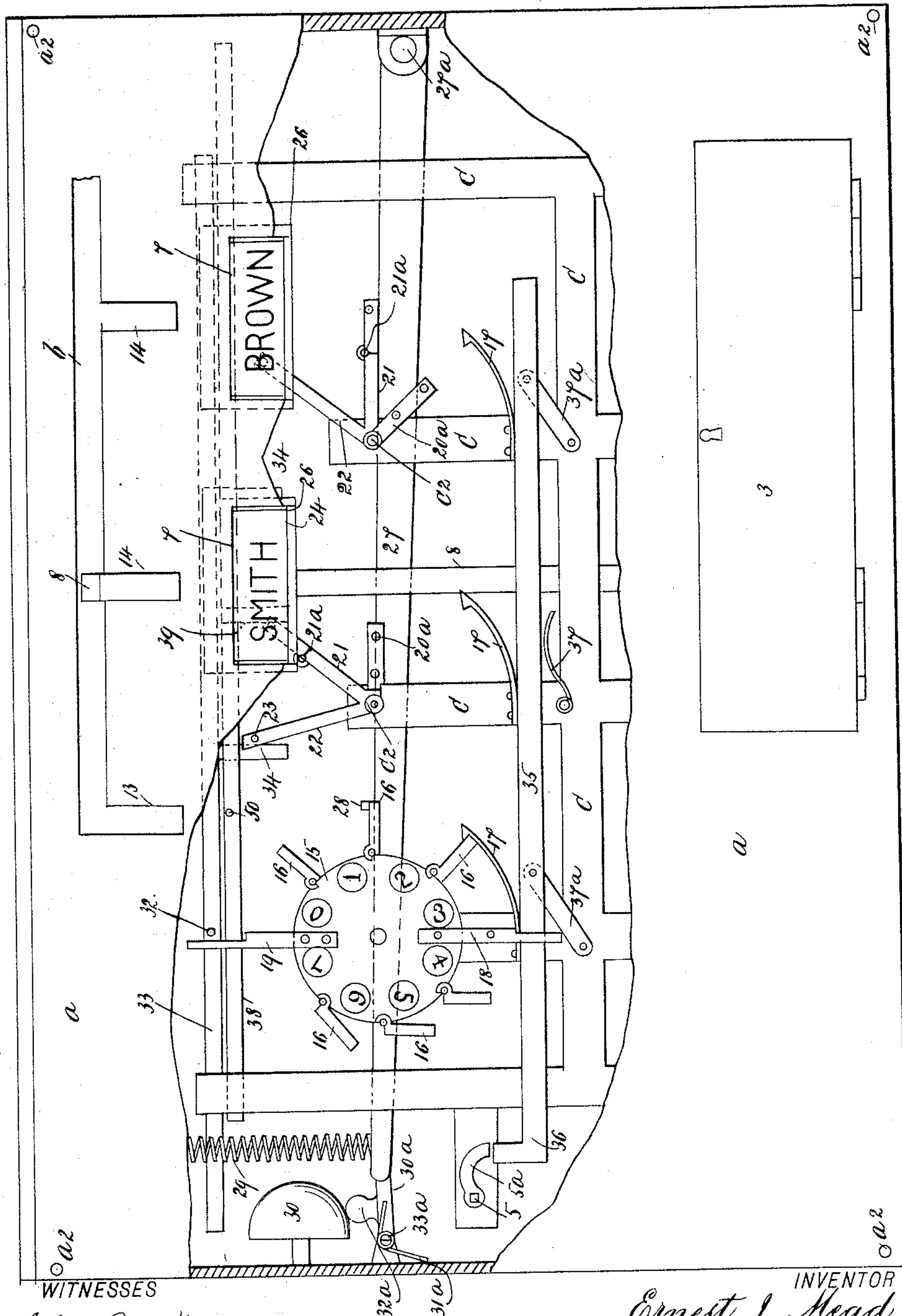
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(Application filed Oct. 12, 1897.)

(No Model.)

5 Sheets—Sheet 5.

FIG. 6.



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# UNITED STATES PATENT OFFICE.

ERNEST JOSEPH MEAD, OF TOTNESS, ENGLAND.

## VOTING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 618,705, dated January 31, 1899.

Application filed October 12, 1897. Serial No. 654,949. (No model.)

*To all whom it may concern:*

Be it known that I, ERNEST JOSEPH MEAD, a subject of the Queen of Great Britain, residing at Ellerslie, Bridgetown, Totness, in the county of Devon, England, have invented certain new and useful Improvements in Voting-Machines, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to voting-machines; and the object thereof is to provide an improved machine of this class which is designed to register the votes given to each candidate at an election and which is adjustable to allow any fixed number of votes to be given by each voter, a further object being to provide a machine of this class which is adjustable for cumulative voting, or by means of which, in other words, a voter may give all his votes to one candidate or divide them, at his discretion, or which may be adjusted for non-cumulative voting, so that a voter can give only a single vote to any candidate.

Among the other advantages of my improved voting-machine are the following: No voting papers or tickets are used, and the machine will not allow any irregularity, and there are therefore no spoiled votes, and the votes are all counted automatically, so that there can be no need of a recount, and the result of the election is shown without any material delay, a further advantage consisting in the fact that perfect secrecy is maintained and the party for whom a voter votes and the number of votes cast by him cannot be determined.

The invention is an improvement on that described and claimed by me in an application filed in the United States Patent Office August 4, 1897, Serial No. 647,088, and is particularly intended for use in elections where two or more candidates are to be voted for, and said invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a front view of my improved voting-machine, part of the front casing thereof being broken away, so as to show the front of the interior construction; Fig. 2, a rear view thereof with the back of the casing removed; Fig. 3, a plan view with the top of the casing

removed; Fig. 4, an end view with part of the end of the casing removed, showing part of the mechanism in vertical section; Fig. 5, a perspective front view of the voting-machine complete; and Fig. 6, a view similar to Fig. 1, showing the parts of the machine adjusted for cumulative voting.

In the drawings forming part of this specification the separate parts of my improvement are designated by numerals and letters of reference, and in the practice of my invention I provide a box or casing which is provided with a cover A, which may be detachably secured or hinged in position, and said box or casing is also provided with a detachable front  $\alpha$ , which is held in place by screws  $\alpha^2$  or in any desired manner, the object of making the front detachable being to provide means for adjusting the machine or the operative parts thereof before each election to the required conditions, including the number of candidates, the number of votes for each voter, and cumulative or non-cumulative voting.

The detachable front  $\alpha$  is also provided with an opening which is provided with a hinged door or covering, which is designated by the reference-numeral 3 and which is adapted to be locked when desired, and said hinged door 3 is designed to give access to the registry devices, which are indicated by the reference-numerals 31, and the officer in charge of the election will be provided with the key to this door and may open the same to ascertain the state of the pole at intervals or at the close of the election.

The front  $\alpha$  of the casing is also provided, as shown in Fig. 5, with keyholes 4 and 5, which enable the officer in charge to set the machine in readiness for each voter, as hereinafter described, and with a glazed aperture 6, by means of which the number of votes to which a voter is entitled at any time may be seen, the figure designating this number being on the face of an indicator-dial 15, which is shown in Figs. 1, 2, and 3, a back view being given in Fig. 2 and a front view in Fig. 1. The front of the casing is also provided with two glazed apertures 7, showing the names of the candidates, and for the purposes of description the names selected are those of "Smith" and "Brown," and these names are on cards



which are inserted into grooves in the name-plates 24.

In the case of non-cumulative voting when no further vote may be given to a candidate his name-plate is drawn downwardly out of sight and the grooved plate 26 is shown instead, said grooved plate bearing any desired inscription, such as "No more votes for this candidate." Although I have stated above that the name-plate of a candidate is drawn down out of sight when no further vote may be given to him, said plate, as shown in Fig. 1, appears in full lines in this position, but this results from the fact that the front casing of the machine is broken out, so that said name-plate shows in full lines; but when the machine is in use said plate will be covered by the front casing of the machine.

The bottom of the machine is provided with two upright brackets or bearings B, in which is mounted a shaft 12, and mounted thereon is a longitudinally-movable sleeve 11, which is provided with a lever 8, and said lever is free to move longitudinally of the shaft 12, and the front of the casing is provided, near the top thereof, with a longitudinal slot b, which is provided with a plurality of downwardly-directed extensions or slots 14, and at the left-hand end thereof with a similar downwardly-directed extension or slot 13, as clearly shown in Figs. 1, 2, 4, and 5, and the lever 8 projects upwardly and outwardly through the slot b and is provided with a knob or handle b<sup>2</sup>, and said lever is adapted to be depressed into either of the slots 13 and 14 in the operation of the machine, as hereinafter described.

The lever 8 is designated as the "voting-lever" and is provided with a forwardly-directed arm 9, as shown in Fig. 4, which is adapted to operate the series of arms 20, 21, and 22, which will be hereinafter described, or the indicator-dial 15, hereinbefore referred to, and said arms 20, 21, and 22 and the indicator-dial 15 and other portions of the operative parts of my improved machine are mounted on or connected with a frame mounted in the box or casing and composed of the various vertical and horizontal parts C. The voting-lever 8 is also provided with a supplemental forwardly-directed arm 10, which operates the registry apparatus 31, two of which are shown, said registry apparatus being substantially of the form, construction, and operation as that described in the application hereinbefore referred to.

Adjacent to each of the slots 14 are attached to the frame C, as shown, a series of pivoted arms 20, 21, and 22, and the series adjacent to the left-hand slot 14 are shown in the position which they occupy before voting and the series adjacent to the right-hand slot 14 in the position which they occupy after voting, this arrangement being shown in Fig. 1, and if these parts be in the position they occupy before voting and the voting-lever be depressed in one of the slots 14 the arm 9 thereof will

strike the corresponding arm 20 and rotate it until it engages with the corresponding spring-catch 17, three of which are shown. This movement will rotate the other arms 21 and 22 of the series, thus bringing the arm 21 into the position previously occupied by 20 or right across the line of the corresponding slot 14. The arm 21 is held in this position because of the fact that the corresponding catch 17 holds the arm 20 stationary; but I provide the arm 21 with a hinge, as shown at 21<sup>a</sup>, so that the arm 9 of the voting-lever 8 may be free to pass upward again through said slot 14 and be ready for the next vote, the outer hinged end of the arm 21 permitting of this operation.

The arm 9 of the voting-lever cannot pass downward through the same slot 14 again because of the fact that the hinged section of the arm 21 can move only in the upward direction, and the arm 22 is provided with a backwardly-directed pin 23, which at this time presses against a downwardly-directed arm 39, formed on or secured to a longitudinally-movable bar 38, which will be hereinafter described, as shown in Fig. 2.

The name-plates 24 are connected by means of a hinged arm 25 with the corresponding arms 20 of the corresponding series 20, 21, and 22 in such manner that when the arm 20 of either series is depressed in voting the corresponding name-plate is moved downwardly through the grooves in the plate-holders 26, below the aperture 7, thus exposing instead of the name-plate the back of the plate-holder or a card inserted therein with the inscription hereinbefore referred to.

The arms 20 of the series 20, 21, and 22 are detachable, and the arms 21 and 22 are formed on a circular head pivotally supported at C<sup>2</sup>, and said circular head is provided with a branch or projection 20<sup>2</sup>, (shown in Fig. 6,) with which the arm 20 is detachably connected, and when the voting is to be cumulative the arms 20 are detached from each of the series 20, 21, and 22, and the name-plates 24 and the connection 25 must also be removed, and the name-cards of the candidates will then be inserted in the holes 26, and the arm 9 of the voting-lever will then be free to move up and down in the slots 14 as many times as the total number of votes allowed to each voter, this arrangement of the machine being shown in Fig. 6. I also provide an arm 27, which is pivoted at 27<sup>a</sup> and which extends longitudinally across the box or casing and at a slight inclination, and this arm is provided with a forwardly-directed peg 28, which is adapted to operate in connection with the indicator-dial 15, and when the voting-lever 8 is depressed in one of the slots 14 the arm 9 thereof depresses the pivoted arm 27, and the peg 28 on the arm 27 at the same time operates the indicator-dial 15, as shown in Figs. 1 and 4, said indicator-dial 15 being moved one space every time that the voting-lever is depressed and for each vote given to any candidate, and the means by which the peg 28



operates the indicator-dial 15 will be hereinafter described. The pivoted arm 27 has its free end supported by a contractile spring 29, and at each vote this arm operates a bell or gong 30 by means of a spring-supported arm 30<sup>a</sup>, which is pivoted at 31<sup>a</sup> and provided with a knocker 32<sup>a</sup>, said spring-supported arm 30<sup>a</sup> being depressed at each downward movement of the pivoted arm 27 and being raised, so as to operate the bell 30, by means of the spring 33<sup>a</sup>.

The indicator-dial 15 has on its face a series of figures or numerals, one of which shows through the aperture 6 in the front of the box or casing, thus indicating to the voter the number of votes still at his disposal at any particular time, and in the construction shown these figures or numerals extend from "0" to "7," and the means by which the peg 28 on the pivoted arm 27 operates the indicator-dial 15 consists of a series of arms 16, which project radially therefrom and across the line of a projection of the slot 13, and each of said arms 16 is hinged to the indicator-dial 15, as shown in Figs. 1 and 2, this hinge being similar to that of the extension of the arm 21 of the series 20, 21, and 22.

Each time that a vote is given for any candidate the peg 28 operates in connection with one of the arms 16 and turns the indicator-dial 15 until said arm engages with the spring-catch 17 directly under said indicator-dial, and this brings the next successive arm 16 on the indicator-dial into position to be operated upon in the next downward movement of the arm 21.

The arms 16 are hinged to the indicator-dial in such manner that they are free to swing in one direction, but cannot move beyond a radial line in the other direction, and the different positions which these arms assume are shown in Figs. 1, 2, and 6.

Each downward movement of the arm 27 revolves the indicator-dial through one space, and this operation is performed at each vote, and the catch 17, in connection with which the arms 16 operate, allows the indicator-dial 15 to revolve in one direction only; but the arms 16 being hinged allow the peg 28 or the arm 9 of the voting-lever to pass upwardly again, as will be readily understood, so that the voting-lever is in position to be again depressed for the next vote.

In case a voter should wish not to record all his votes and yet to leave no trace of the fact that he had not used all I provide that after voting for the candidate or candidates of his choice if there be any unused votes he may press the voting-lever down into the left-hand slot 13 as many times as he has votes remaining, and this operation will operate the indicator-dial 15, as hereinbefore described, but the recording apparatus or devices 31 will not be operated.

I also provide a supplemental arm 18, which may be screwed onto or otherwise detachably connected with either of the arms 16 of the

indicator-dial 15, as shown in Fig. 1, and in the drawings said supplemental arm 18 is shown attached to the arm 16 of the indicator-dial between the numerals or numbers "3" and "4," thus allowing five votes to each voter, and Fig. 1 shows the indicator-dial 15 as it stands when only one more vote is available, the numeral or figure "1" thereon showing through the aperture 6 in the front of the box or casing and indicating this fact to the voter. The indicator-dial 15 is also provided with an arm 19, which is rigidly secured thereto or formed thereon, but which occupies a plane in front of said indicator-dial, as shown in Fig. 3, in order to pass the catch 17, which is mounted under said indicator-dial and in the same plane therewith, and the supplemental arm 18 being connected with said indicator-dial and with the side of one of the arms 16, hinged thereto, will also pass the catch 17, as will be readily understood.

When the last vote is being registered, the indicator-dial 15 is moved forward one space from the position shown in Fig. 1, and the arm 19 then touches the forwardly-directed peg 32, formed on or secured to a longitudinally-movable bar 33, and pushes said bar 33 to the right as far as it will go.

The bar 33 has a series of downwardly-directed arms 34, which engage the backwardly-directed pegs 23 on the arms 22 and which are adapted to operate in connection therewith, and when the voting-lever is depressed when the last vote is being registered each series of the arms 20, 21, and 22 are moved forward to the position shown at the right of Fig. 1 by means of said arms 34, thus rendering further voting impossible.

To prepare the machine for the next voter, the officer in charge inserts special keys into the apertures 4 and 5, and turning the key in the aperture 5 to the right he operates the curved key-lever 5<sup>a</sup> and depresses the horizontal bar 35, which is provided with an upwardly-directed extension 36, in connection with which the key-lever operates and to which the catches 17 are secured, thus releasing the arm 16 on the indicator-dial 15 and the arms 20 of each of the series 20, 21, and 22. The bar 35 is held in proper position by a spring 37, which is secured to the frame 0, and said bar is connected with said frame by pivoted levers 37<sup>a</sup>, which are pivotally connected therewith and with said frame. The officer in charge of the machine while holding down the bar 35 turns the key in the aperture 4 to the left as far as it will go, and thus rotates the indicator-dial 15 until the detachable arm 18 comes in contact with a forwardly-directed peg 50 on a longitudinally-movable bar 38, and this operation presses said bar to the left as far as it will go. The bar 38 has a series of downwardly-directed arms 39, hereinbefore referred to, and these arms engage the backwardly-directed pegs 23 on the arms 22 of the series 20, 21, and 22; thus drawing all of said arms of said series to the left



ready for voting, or in the position shown for Smith in Fig. 1.

On referring to Fig. 4, it will be observed that the hinged section of the arm 21 is provided with a backwardly-directed extension 21<sup>b</sup> and the detachable arm 20 with a corresponding backwardly-directed extension 20<sup>a</sup>, which will enable the arm 9 of the voting-lever to operate thereon.

Although I have shown but two registry apparatus and spaces for the names of but two candidates, it will be apparent that my improved voting-machine may be of any desired length and adapted for use at elections where more than two candidates are to be voted for, and before the machines are ready for use they must be adjusted to the number of candidates. The names of the candidates must be placed in the name-plates and the indicator-dial 15 must be adjusted for the number of votes to which each voter is entitled, and if cumulative voting is allowed the arms 20 of the series 20, 21, and 22 and the name-plates 24 must all be removed, as hereinbefore stated, and the series of arms 20, 21, and 22 must be removed from all slots which have no candidates' names. It will also be apparent that the voting-lever may be moved longitudinally of the slot *b* by the voter or by the officer in charge of the machine whenever desired, and the registry apparatus 31, to which reference has heretofore been made, are substantially the same in construction and operation as the registry apparatus shown and described in the application hereinbefore referred to, and the arm 10 of the voting-lever 9 operates in connection with the jaws 43 of the pivoted arm 42, by means of which the registry apparatus is operated, it being understood that one registry apparatus is provided for each candidate, and it will also be apparent that any desired form of registry apparatus may be employed.

The operation of the device will be readily understood from the foregoing description when taken in connection with the accompanying drawings and the following statement thereof:

It will be apparent that the sliding bars 33 and 38 may be supported in any desired manner in connection with the frame C, and supposing the parts to be in the position shown under the name of the candidate Smith in Fig. 1, the voter moves the voting-lever into the position shown in said figure over the left-hand slot 14 and then depresses said lever. The arm 9 of the voting-lever strikes the arm 20 of the series 20, 21, and 22 and depresses the same until said arm engages with the catch 17 directly thereunder, and in this operation the corresponding name-plate 24 is depressed, carrying with it the name of the candidate. At the same time the pivoted arm 27 is depressed and the bell or gong 30 is operated and the indicator-dial 15 is revolved through one point, thus showing through the opening 6 one vote less for the

voter, and at the same time the arm 10 on the voting-lever operates the corresponding registry mechanism 31 and registers one vote for the candidate, and this operation is repeated as each candidate is voted for, the voting-lever being depressed in the slot 14 over the name of the candidate for whom the voter desires to vote. Suppose there are a plurality of candidates and the voter only desires to vote for one. After having voted for the candidate of his selection, as hereinbefore described, and desiring that the fact of his not having voted for other candidates shall not be known, the voting-lever is moved over the vertical slot 13 and is successively depressed in said slot until all the votes to which he is entitled are exhausted, this fact being shown by the indicator-dial 15, which is turned through one point each time that the voting-lever is depressed, and at the last depression of the voting-lever in the slot 13 the entire machine is locked by means of the arm 19 on the indicator-dial 15, which forces the bar 33 to the right and locks said apparatus, as hereinbefore described. The unlocking of the machine to permit further voting by other voters has been hereinbefore described and is done by means of the keys inserted through the apertures 4 and 5 in the front of the box or casing.

My improved voting-machine is simple in construction and operation and well adapted to accomplish the result for which it is intended, and it will be apparent that changes in and modifications of the construction herein described may be made without departing from the spirit of my invention or sacrificing its advantages.

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

1. In a voting-machine constructed as herein described, a dial-plate provided with radial arms which are hinged to the perimeter thereof, and adapted to swing in one direction only, substantially as shown and described.

2. In a voting-machine constructed as herein described, a dial-plate provided with radial arms which are hinged to the perimeter thereof, and adapted to swing in one direction only, and a pivoted spring-supported arm which is adapted to operate said dial-plate, substantially as shown and described.

3. A voting-machine, comprising a casing provided with a longitudinal slot in the front thereof, and downwardly-directed slots communicating therewith, a longitudinally-movable lever pivotally supported in the casing, said lever being projected through said longitudinal slot and adapted to be depressed into said downwardly-directed slots, a registering apparatus mounted in the casing of the machine and adapted to be operated by said lever, a series of connected radial arms mounted in the casing adjacent to one of said downwardly-directed slots and adapted to be operated by said lever, the front of the cas-



ing being also provided with an opening in which is mounted a vertically-movable name-plate which is in operative connection with one of said radial arms, substantially as shown and described.

4. A voting-machine, comprising a casing provided with a longitudinal slot in the front thereof, and downwardly-directed slots communicating therewith, a longitudinally-movable lever pivotally supported in the casing, said lever being projected through said longitudinal slot and adapted to be depressed into said downwardly-directed slots, a registering apparatus mounted in the casing of the machine and adapted to be operated by said lever, a series of connected radial arms mounted in the casing adjacent to one of said downwardly-directed slots and adapted to be operated by said lever, the front of the casing being also provided with an opening in which is mounted a vertically-movable name-plate which is in operative connection with one of said radial arms, said last-named radial arms being detachable from the other arms of the series, substantially as shown and described.

5. A voting-machine, comprising a casing provided with a longitudinal slot in the front thereof, and downwardly-directed slots communicating therewith, a longitudinally-movable lever pivotally supported in the casing, said lever being projected through said longitudinal slot and adapted to be depressed into said downwardly-directed slots, a registering apparatus mounted in the casing of the machine and adapted to be operated by said lever, a series of connected radial arms mounted in the casing adjacent to one of said downwardly-directed slots and adapted to be operated by said lever, the front of the casing being also provided with an opening in which is mounted a vertically-movable name-plate which is in operative connection with one of said radial arms, said last-named radial arms being detachable from the other arms of the series, and said casing being also provided with a dial-plate provided with radial arms which are hinged to the perimeter thereof, and adapted to swing in a limited arc, and devices operated by said lever for turning said dial-plate, substantially as shown and described.

6. A voting-machine constructed as herein described, and provided with registering apparatus, and means for operating the same, said machine being also provided with a dial-plate having radial arms hinged to the perimeter thereof, and adapted to swing in a limited arc, a lever for operating the registering apparatus, and devices operated by said lever for turning said dial-plate, substantially as shown and described.

7. A voting-machine constructed as herein described and adjustable as to the number of candidates to be voted for, said machine being also provided with a registry apparatus for each candidate which is adapted to be op-

erated each time that said candidate is voted for, and said machine being also provided with means for indicating the number of votes remaining to each voter after a vote has been cast and means for indicating on the exterior of the case the names of the candidates, and devices for drawing each name from sight as soon as no further vote can be given to said candidates, substantially as shown and described.

8. A voting-machine constructed as herein described, and provided with registering apparatus, and means for operating the same, said machine being also provided with a dial-plate having radial arms hinged to the perimeter thereof, and adapted to swing in a limited arc, a lever for operating the registering apparatus, and devices operated by said lever for turning said dial-plate, and a gong which is operated by said devices each time that the dial-plate is turned, substantially as shown and described.

9. A voting-machine comprising a casing constructed as herein described, and provided with a horizontal slot in the front thereof, and vertical slots communicating therewith, a voting-lever mounted in said casing and adapted to move longitudinally thereof, and to operate in said slots, separate series of registry devices mounted in said casing and adapted to be operated by said voting-lever, an indicator-dial also mounted in said casing, a pivoted arm also mounted in said casing and extending longitudinally thereof, and which is adapted to be operated by said voting-lever, said pivoted arm being adapted to operate said indicator-dial, separate series of radial arms mounted in said casing and adapted to be operated by said voting-lever, movable name-plates mounted in openings formed in the front of the casing, and in operative connection with one of the radial arms of each of said series, and longitudinally-movable bars which are adapted to be operated by the indicator-dial, and which are also adapted to operate the radial arms of each of said series, substantially as shown.

10. A voting-machine comprising a casing constructed as herein described, and provided with a horizontal slot in the front thereof, and vertical slots communicating therewith, a voting-lever mounted in said casing and adapted to move longitudinally thereof, and to operate in said slots, separate series of registry devices mounted in said casing and adapted to be operated by said voting-lever, an indicator-dial also mounted in said casing, a pivoted arm also mounted in said casing and extending longitudinally thereof, and which is adapted to be operated by said voting-lever, said pivoted arm being adapted to operate said indicator-dial, separate series of radial arms mounted in said casing and adapted to be operated by said voting-lever, movable name-plates mounted in openings formed in the front of the casing, and in operative connection with one of the radial arms of each



of said series, and longitudinally-movable bars which are adapted to be operated by the indicator-dial, and which are also adapted to operate the radial arms of each of said series, and means for locking the separate parts of the mechanism which are adapted to be operated by keys inserted through the front of the casing, substantially as shown and described.

11. A voting-machine comprising a casing constructed as herein described, and provided with a horizontal slot in the front thereof, and vertical slots communicating therewith, a voting-lever mounted in said casing and adapted to move longitudinally thereof, and to operate in said slots, separate series of registry devices mounted in said casing and adapted to be operated by said voting-lever, an indicator-dial also mounted in said casing, a pivoted arm also mounted in said casing and extending longitudinally thereof, and which is adapted to be operated by said voting-lever, said pivoted arm being adapted to operate said indicator-dial, separate series of radial arms mounted in said casing and adapted to be operated by said voting-lever, movable name-plates mounted in openings formed in the front of the casing, and in operative connection with one of the radial arms of each of said series, and longitudinally-movable bars which are adapted to be operated by the indicator-dial, and which are also adapted to operate the radial arms of each of said series, and means for locking the separate parts of the mechanism which are adapted to be operated by keys inserted through the front of the casing and said casing being also provided with a gong or bell which is adapted to be operated by the pivoted arm which extends longitudinally of said casing, substantially as shown and described.

12. A voting-machine consisting of a casing the front of which is provided with a longitudinal slot near the top thereof, and vertical slots communicating with the bottom thereof, said front being also provided with openings which are adapted to receive vertically-movable name-plates, and which correspond with all of said vertical slots with the exception of the one at the left, a voting-lever mounted in said casing and adapted to move longitudinally thereof, and to operate in said slots, a plurality of registry apparatus adapted to be operated by said lever, an arm as 27 pivotally mounted in one end of said casing and extending longitudinally thereof, and adapted to be operated by said voting-lever, a bell or gong adapted to be operated by said arm, an indicator-dial as 15 which is adapted to be operated by said arm, and also by said voting-lever, separate series of radial arms as 20, 21 and 22 which are connected and pivotally mounted adjacent to said openings in which the name-plates are placed, and one arm of each of said series being connected with the corresponding name-plate, longitudinally-movable bars mounted in said casing, and

adapted to be operated by said indicator-dial, said bars being also adapted to operate the radial arms of each of said series, and devices whereby the separate parts of the machine are locked against operation, substantially as shown and described.

13. A voting-machine consisting of a casing the front of which is provided with a longitudinal slot near the top thereof, and vertical slots communicating with the bottom thereof, said front being also provided with openings which are adapted to receive vertically-movable name-plates, and which correspond with all of said vertical slots with the exception of the one at the left, a voting-lever mounted in said casing and adapted to move longitudinally thereof, and to operate in said slots, a plurality of registry apparatus adapted to be operated by said lever, an arm as 27 pivotally mounted in one end of said casing and extending longitudinally thereof, and adapted to be operated by said voting-lever, a bell or gong adapted to be operated by said arm, an indicator-dial as 15 which is adapted to be operated by said arm, and also by said voting-lever, separate series of radial arms as 20, 21 and 22 which are connected and pivotally mounted adjacent to said openings in which the name-plates are placed, and one arm of each of said series being connected with the corresponding name-plate, longitudinally-movable bars mounted in said casing, and adapted to be operated by said indicator-dial, said bars being also adapted to operate the radial arms of each of said series, and devices whereby the separate parts of the machine are locked against operation, said devices consisting of a longitudinally and vertically movable bar as 35 provided with spring-catches as 17, and an arm rigidly connected with the indicator-dial by which said sliding bars are operated, substantially as shown and described.

14. A voting-machine, comprising a casing, the front of which is provided with communicating horizontal and vertically-arranged slots or openings, vertically-movable name-plates mounted in said openings in the front of the casing, registering apparatus corresponding with said name-plates, a lever projecting through the front of the casing and adapted to operate said registering apparatus, and said name-plates, a dial-plate provided with radial arms hinged to the perimeter thereof and adapted to swing in a limited arc, a pivoted lever for operating said dial-plate, said pivoted lever being adapted to be operated by said voting-lever, and devices operated by said voting-lever for moving said name-plates, substantially as shown and described.

15. A voting-machine constructed as herein described, and provided with a pivoted arm 27, a dial-plate 15 having radial hinged arms 16, a horizontal and vertically-movable bar 35 provided with catches 17 adapted to operate in connection with the arms of the dial-



plate, said dial-plate being adapted to turn in one direction, substantially as shown and described.

16. A voting-machine constructed as herein described and provided with a registering apparatus, a voting-lever for operating the same, a dial-plate adapted to turn in one direction only, and provided with radial arms hinged to the perimeter thereof, a pivoted arm for operating said dial-plate, and a longitudinally and vertically movable bar provided with a catch for locking said dial-plate, substantially as shown and described.

17. A voting-machine constructed as herein described and provided with a front casing having a longitudinal slot or opening, and vertical slots or openings communicating therewith, registering apparatus mounted in said machine, a pivoted and longitudinally-movable voting-lever mounted in said machine and projecting through the horizontal

slot or opening and adapted to operate said registry apparatus, the front casing of the machine being also provided with openings in which are mounted vertically-movable name-plate holders, a series of connected radial arms pivotally supported adjacent to each of said openings, one of which is connected with the name-plate holders, and one of each of said series of arms being also provided with a hinged section, and the arm of each series with which the name-plate holders are connected being detachable, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 1st day of October, 1897.

ERNEST JOSEPH MEAD.

Witnesses:

HENRY JAMES TOUZEAU HODDER,  
CHARLES HENRY WIDYER.