

(No Model.)

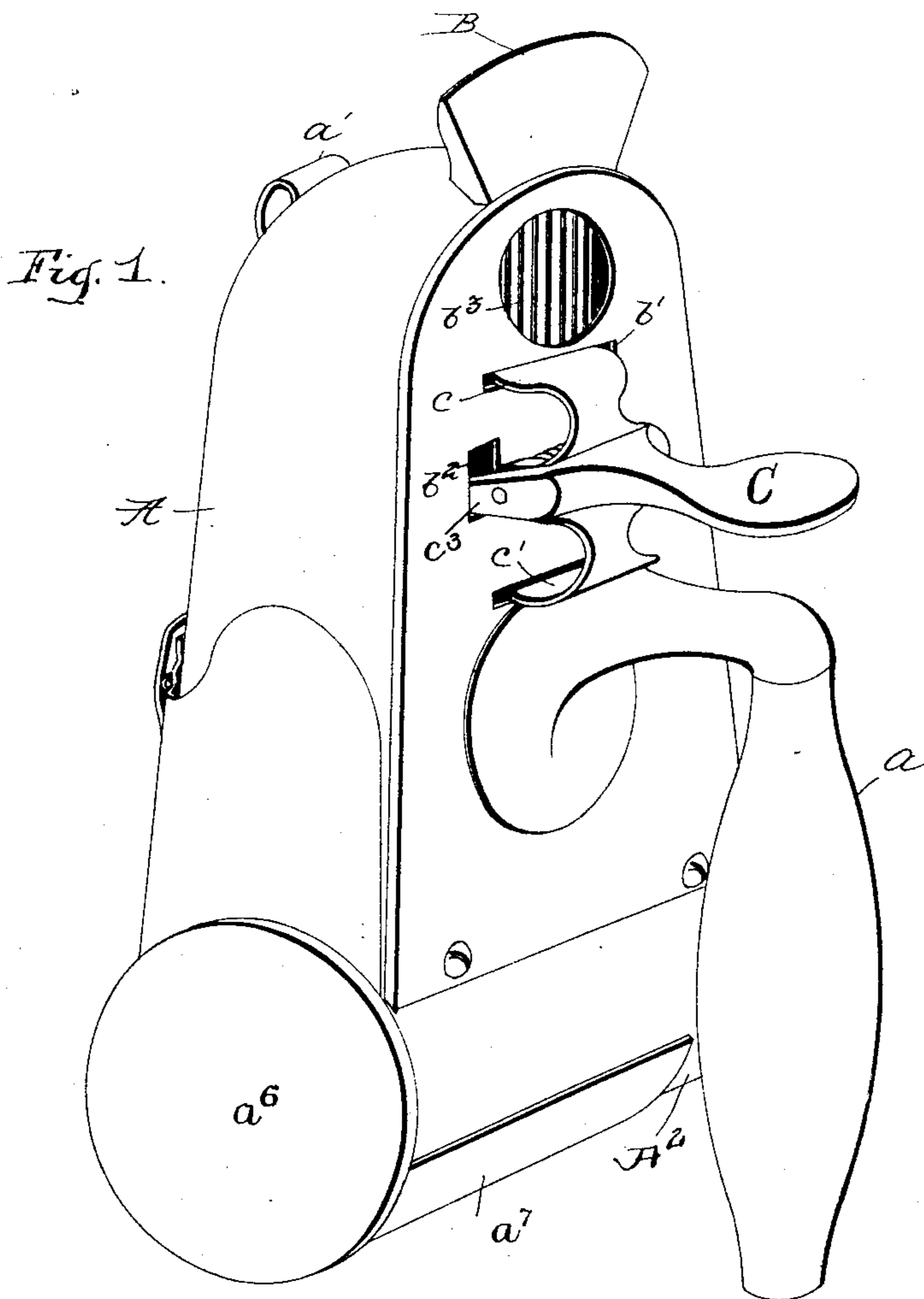
3 Sheets—Sheet 1.

W. T. WOOD.

DEVICE FOR COLLECTING, REGISTERING, AND RECORDING FARES.

No. 481,993.

Patented Sept. 6, 1892.



Witnesses,
W. H. Humphrey
C. H. Parry

by

Inventor,
William T. Wood
A. S. Dykenforth
his Attorney.

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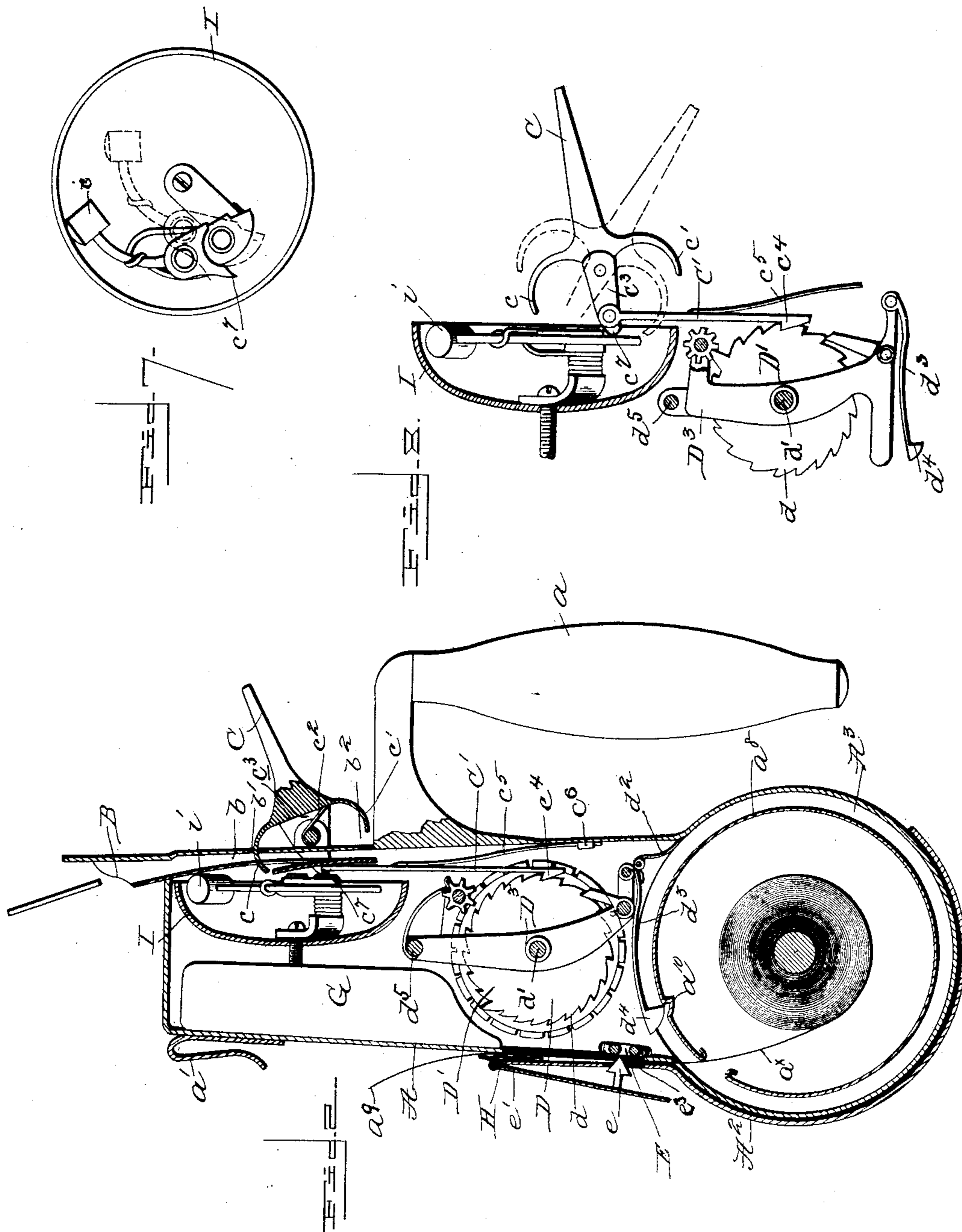
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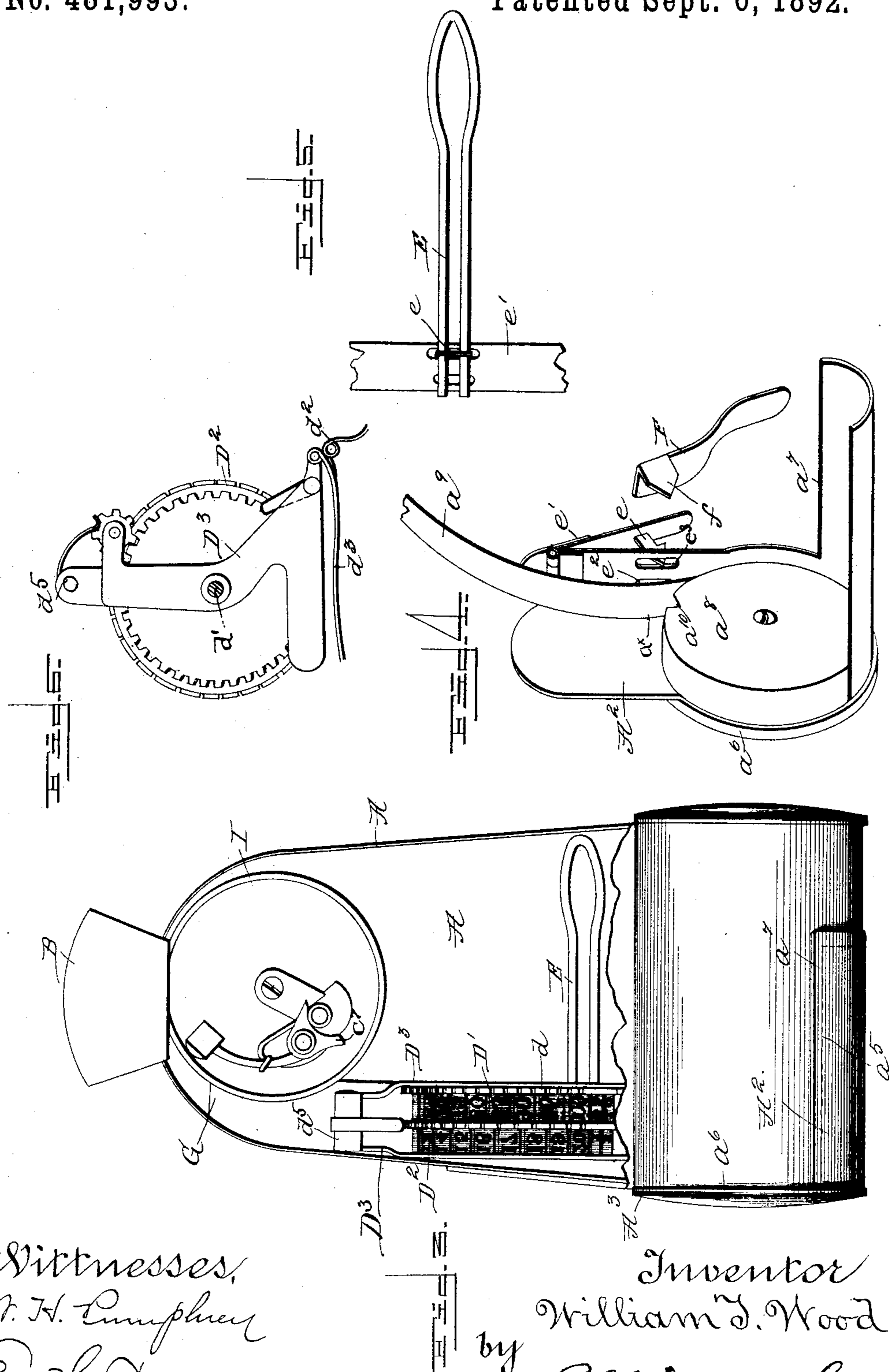
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UNITED STATES PATENT OFFICE.

WILLIAM THOMAS WOOD, OF NASHVILLE, TENNESSEE, ASSIGNOR OF ONE-HALF TO S. O. MERRILL AND JAMES T. DICKS, OF SAME PLACE.

DEVICE FOR COLLECTING, REGISTERING, AND RECORDING FARES.

SPECIFICATION forming part of Letters Patent No. 481,993, dated September 6, 1892.

Application filed June 22, 1891. Serial No. 397,061. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM THOMAS WOOD, a citizen of the United States, residing at Nashville, in the county of Davidson and State of Tennessee, have invented certain new and useful Improvements in a Combined Fare Receiver and Register; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a combined fare receiver and register.

The object of the invention is to produce a combined fare box and register, whereby safe and convenient means for collecting, registering, and recording the receipt of fares on cars, boats, and the like will be furnished.

The object of the invention is, furthermore, to produce a combined fare-box and register comprising a receptacle for the fares and a register operated by the opening of the receptacle in removing the fares to print a record of the number of fares previously deposited in the receptacle.

The object of the invention is, furthermore, to produce a combined fare box and register furnishing a receptacle for the fares and a printing-register by which a record of the number of fares is printed as the receptacle is opened to remove the fares and in which the catch and lock by which the portion of the receptacle displaced in order to remove the fares is covered by a piece or strip of paper or some other material so arranged as to be destroyed or punctured in releasing the catch or lock, whereby removal of the contents of the receptacle without detection is rendered impossible.

The object of the invention is, furthermore, to produce a fare receptacle and register so constructed that the coin to be received and the receipt whereof is to be recorded is exposed to view after being introduced and wherein the movement necessary to allow the entrance of the coin into the receptacle also serves to make a record of the receipt of the coin.

With these objects in view the invention consists in the combined fare receptacle and register comprising a receptacle for the fares,

provided with a movable portion permitting removal of the fares, and a register arranged adjacent to the receptacle, the register being provided with printing-faces, a surface upon which the printing is to be done, and a connection between the movable portion of the receptacle and the register, whereby when the movable portion is displaced the record is printed.

The invention consists, furthermore, in a combined fare-receptacle and register comprising a fare receptacle having a movable portion permitting displacement to allow removal of the fares, a way or passage leading to the receptacle, a lever provided with a projection or projections extending into the way or passage and serving to regulate the introduction of fares, a register connected with the lever in such manner as to be operated by it, the register being movable, and a connection between the movable portion of the receptacle and the register, whereby the latter is moved as the movable portion is displaced to permit removal of the fares.

The invention consists, furthermore, in a combined fare-receptacle provided with a movable portion permitting the removal of the fares, a register placed adjacent to the movable portion and capable of slight movement, a connection between the movable portion of the receptacle and the register, whereby the register is moved as the movable portion of the receptacle is displaced, a printing-surface consisting of a strip of paper or the like, a locking device for securing the movable portion, and a strip of paper or the like interposed between the parts of the locking device, so arranged that the strip of paper or the like is torn or injured in the act of releasing the locking device, and the displacing of the movable portion of the receptacle presses the register against the strip of paper or the like.

The invention consists, furthermore, in various novel details of construction, whereby the objects of the invention are attained.

One form of embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the improved fare receptacle and register. Fig. 2 is

a central vertical cross-section. Fig. 3 is a front view with a portion of the casing removed to display the interior disposition of the parts. Fig. 4 is a perspective view showing the removable portion of the fare-receptacle, a portion of the locking device, a strip of paper or the like upon which the printing is to be done by the register, and also showing the implement or key by which the locking device is released. Fig. 5 is a detail view showing a portion of the locking device. Fig. 6 is a side elevation of the register, showing the manner of sustaining the same in the casing of the device. Fig. 7 is a detail view showing the bell and hammer, and Fig. 8 is a sectional view showing the connection between the lever by which the admission of the fares into the receptacle is effected and the ringing and registering device.

In the drawings, A represents the shell or case of the device, which in the present embodiment of the invention is shown as adapted to be carried in the hand of the conductor or other person collecting the fares, and for purposes of convenience in handling or attachment to the clothing is provided with a handle a and a hook a' . It will of course be understood that I do not wish to limit myself to the form of frame herein shown, as the salient and important features of the invention may with facility be embodied in a casing or shell designed to be permanently attached to the wall of a car or the like.

The upper portion of the casing is provided with a hopper B, terminating at its lower end in a passage b , extending into the casing A. The passage b is provided in its walls with openings b' and b^2 , and the side of the casing A, forming the outside of the passage, has a grating b^3 and is provided with suitable openings through which the coin or the like is visible in its passage to the interior of the receptacle. Projecting through the openings b' and b^2 are the arms c and c' of the lever C, which is pivoted to lugs on the outside of the casing A. The lever C is so arranged that when the arm c is projected into the opening b' the arm c' is withdrawn from the opening b^2 , and vice versa, and the spring c^2 serves to keep the upper arm c in that position normally, so that when a coin is introduced into the hopper it falls upon the arm c' and remains there exposed to view through the opening b^3 in the side of the casing until the outer end of the lever C is depressed, which motion will withdraw the arm c and introduce the arm c' . When the lever C is relieved from pressure, the spring returns to its normal position, allowing the coin or the like to fall into the interior of the receptacle.

Attached to an inward-projecting arm c^3 of the lever C is a depending operating-pawl C' , provided with a hook or toe c^4 , which latter is held in its proper operative position by means of spring metal c^5 , secured by a guard c^6 to the inner face of the casing A. The hook c^4 is designed to engage and impart movement

to the register D at each movement of the lever C, by which a coin or the like is permitted to pass through the passage b .

The register consists of two wheels D' D^2 , arranged adjacent to each other, the wheel D' bearing upon its face numbers beginning with "5," each successive number increased by five, and terminating with "100," and the wheel D^2 is provided with numbers "1" to "20," consecutively. The edge of the wheel D' is provided with ratchet-teeth d , with which the hook c^4 engages, and the wheel D^2 is so arranged in connection with the wheel D' as to be moved one step at each revolution of the wheel D' by means of a long tooth on said wheel and a "carrying-wheel," in the usual manner in devices of this kind. The register is supported upon a pivot d' , to which the frame D^3 of the register is attached, and the register is retained in its normal position by means of a spring d^2 , pivoted on said frame D^3 and bearing upon a portion of the casing of the device. The frame D^3 is provided at its lower end with a projecting arm d^3 , having a nib or hook d^4 extending downward in such manner as to enter an indentation a^{10} , formed in a circular shell a^8 .

The lower portion of the casing A is preferably cylindrical in form and has an open end and is provided in its bottom with an opening a^5 . One end of the cylindrical portion and the opening in the bottom are closed by a removable portion A^2 , consisting of a circular end part a^6 and a curved portion a^7 , the portion a^6 being for closing the opening in the end of the cylindrical portion and the curved portion a^7 being for closing the opening a^5 in the bottom of the receptacle. Arranged within the removable portion A^2 is a circular shell a^8 , designed to contain a roll of paper a^x , the end of which a^9 , Fig. 4, is shown as projecting from the circular shell a^8 .

The locking device by which the removable portion is retained in position consists, essentially, of the spring-arms E, arranged on the inside of the casing and an arrow-shaped projection e , attached to a pivoted lever e' , fastened to the removable portion A^2 . When the removable portion A^2 is in proper position to close the openings in the bottom of the casing, the arrow-shaped projection will be in position to enter between the spring-arms E and will be retained by the same, the removable portion being held in position until the arms are separated.

In placing the parts in position the end a^9 of the strip of paper or the like a^x , contained in the circular casing, is drawn up between the removable portion A^2 and the outside of the casing, and is there confined by a corrugated or other suitable plate H.

In locking the receiver the arrow-shaped projection e is forced through the strip of paper, the shell and casing being provided with suitable openings e^3 , through which the projection e passes.

In order to unlock the device, it is neces-

sary to separate the spring-arms E, and as the strip of paper a^x is between the spring-arms E and the pivoted lever e' it will also be necessary to pass the instrument through the paper. For the purpose of separating the arms E and by so doing unlocking the device I provide a key F, Fig. 4, provided with a wedge-shaped projection f , which is forced through a strip of paper or the like and between the spring-arms E. After the spring-arms have been separated the arrow-shaped projection e may be withdrawn and the removable portion A^2 displaced, permitting access to the interior of the receptacle.

The cylindrical shell a^8 of the casing A is provided at a point which is opposite the nib or hook d^4 with an indentation a^{10} , into which when the parts are in a closed position the hook d^4 projects, so that as the removable part A^2 is turned to withdraw the curved portion a^7 from the opening a^5 the register, the numbers on the face of which are supplied with ink from a suitable reservoir G as they pass beneath it, is drawn forward by the projecting arm d^3 (the frame D^3 being pivoted as at d^5) against the strip of paper which bears on the inside of the plate H, and is thereby held in place to receive the impression.

A bell I, provided with a suitable hammer i , is arranged adjacent to the lever C, the lower arm c' of which engages a nib c^7 , formed on the lower part of the hammer i , and causes the same to strike the bell at each movement of the lever C.

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

1. A fare receptacle and register comprising a receptacle for the fares, provided with a removable portion, and a movable register arranged adjacent to the receptacle, the register being provided with printing-faces, a surface upon which the printing is to be done, and a connection between the removable portion of the receptacle and the register, whereby when the removable portion is displaced

the printing-faces of the register are brought against the surface designed to receive an impression, substantially as described.

2. A combined fare receptacle and register comprising a fare-receptacle having a removable portion permitting displacement to allow of the removal of the fares, a way or passage leading to the receptacle, a lever provided with a projection or projections extending into the way or passage and serving to regulate the introduction of fares, a register connected with the lever in such manner as to be operated by the lever, the register being movable, and a connection between the removable portion of the receptacle and the register, substantially as described.

3. A combined fare receptacle and register comprising a fare-receptacle provided with a removable portion permitting the removal of the fares, a register placed adjacent to the receptacle, a connection between the removable portion and the register, a printing-surface consisting of a strip of paper or the like, and a locking device for the removable portion, between the parts of which the strip of paper is introduced, the parts being so arranged that the strip of paper or the like is injured in the act of releasing the locking device, substantially as described.

4. A combined fare receptacle and register comprising a fare-receptacle having a removable portion permitting displacement to allow of the removal of the fares, a way or passage leading to the receptacle, a lever provided with a projection or projections extending into the way or passage and serving to regulate the introduction of fares, a bell, and a projection from the lever engaging the hammer of the bell, and a register connected with the lever, substantially as described.

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

WILLIAM THOMAS WOOD.

Witnesses:

W. H. KLINE,

C. L. CHASE.