

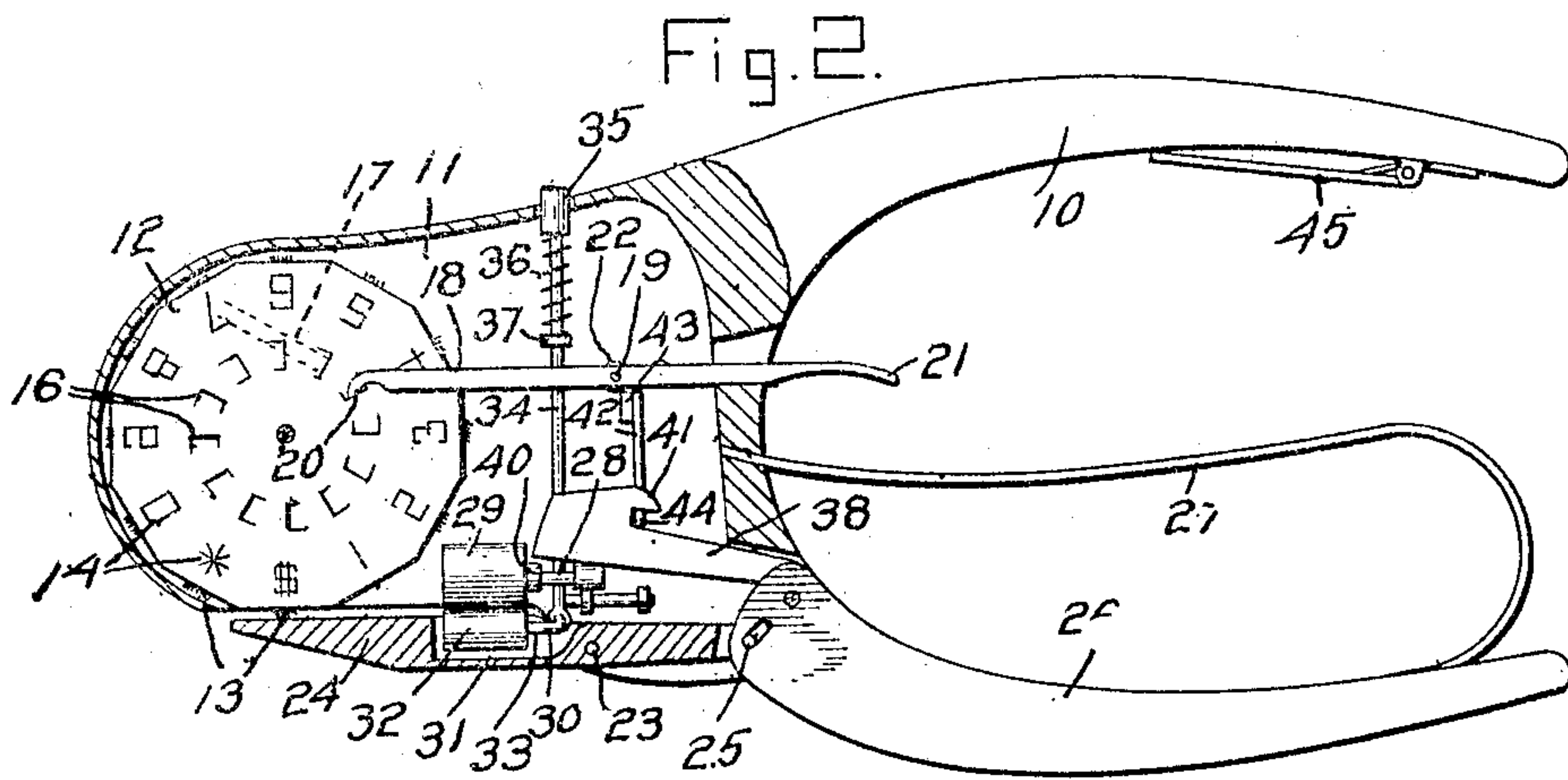
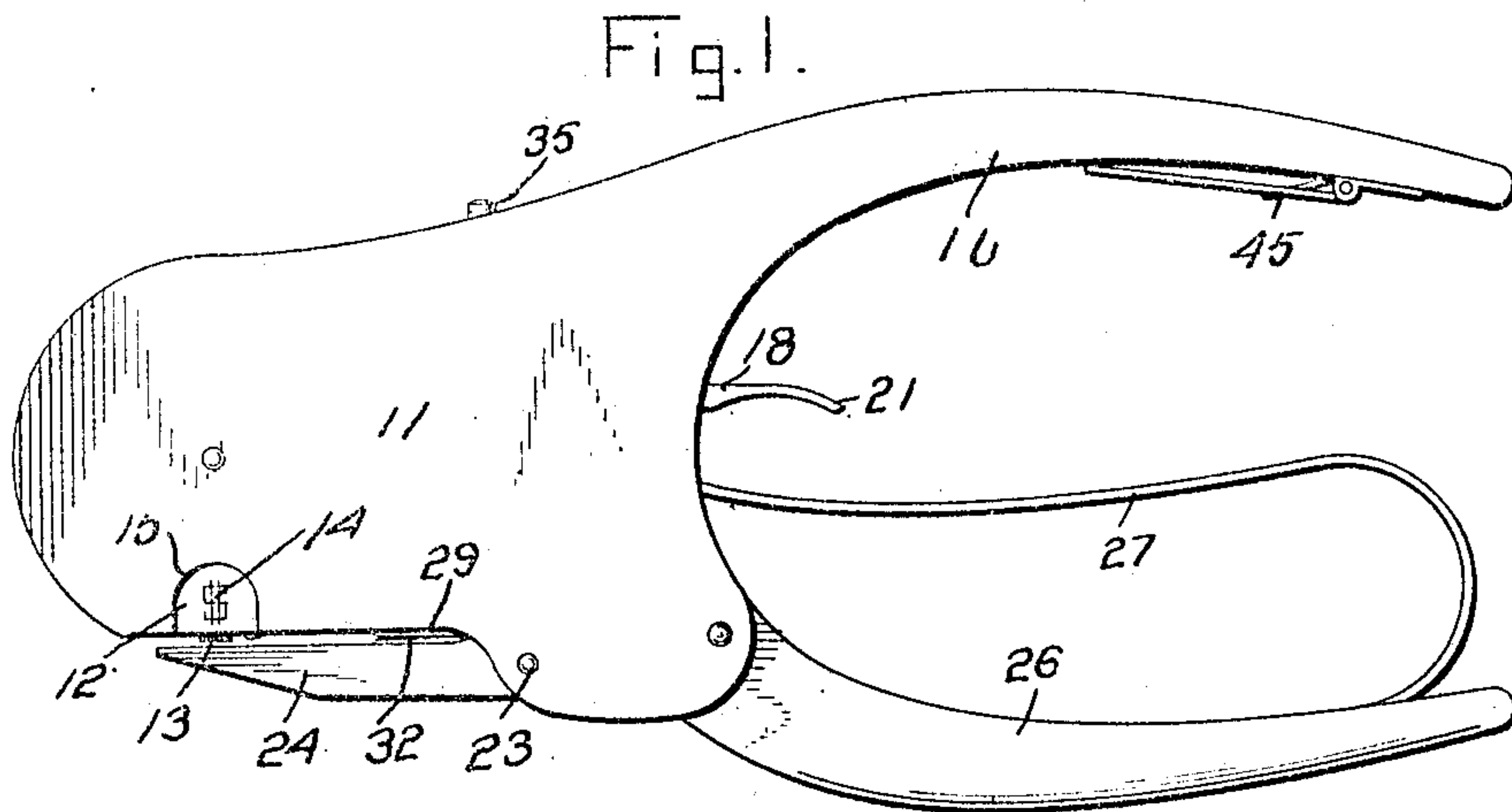
No. 887,665.

PATENTED MAY 12, 1908.

G. L. LEISNER.
CHECK PUNCHER.

APPLICATION FILED JAN. 29, 1907.

3 SHEETS—SHEET 1.



Inventor

G. L. Leisner.

Witnesses

C. H. Ruchenbach
F. B. Mac Nab.

By

[Signature]

Attorneys.

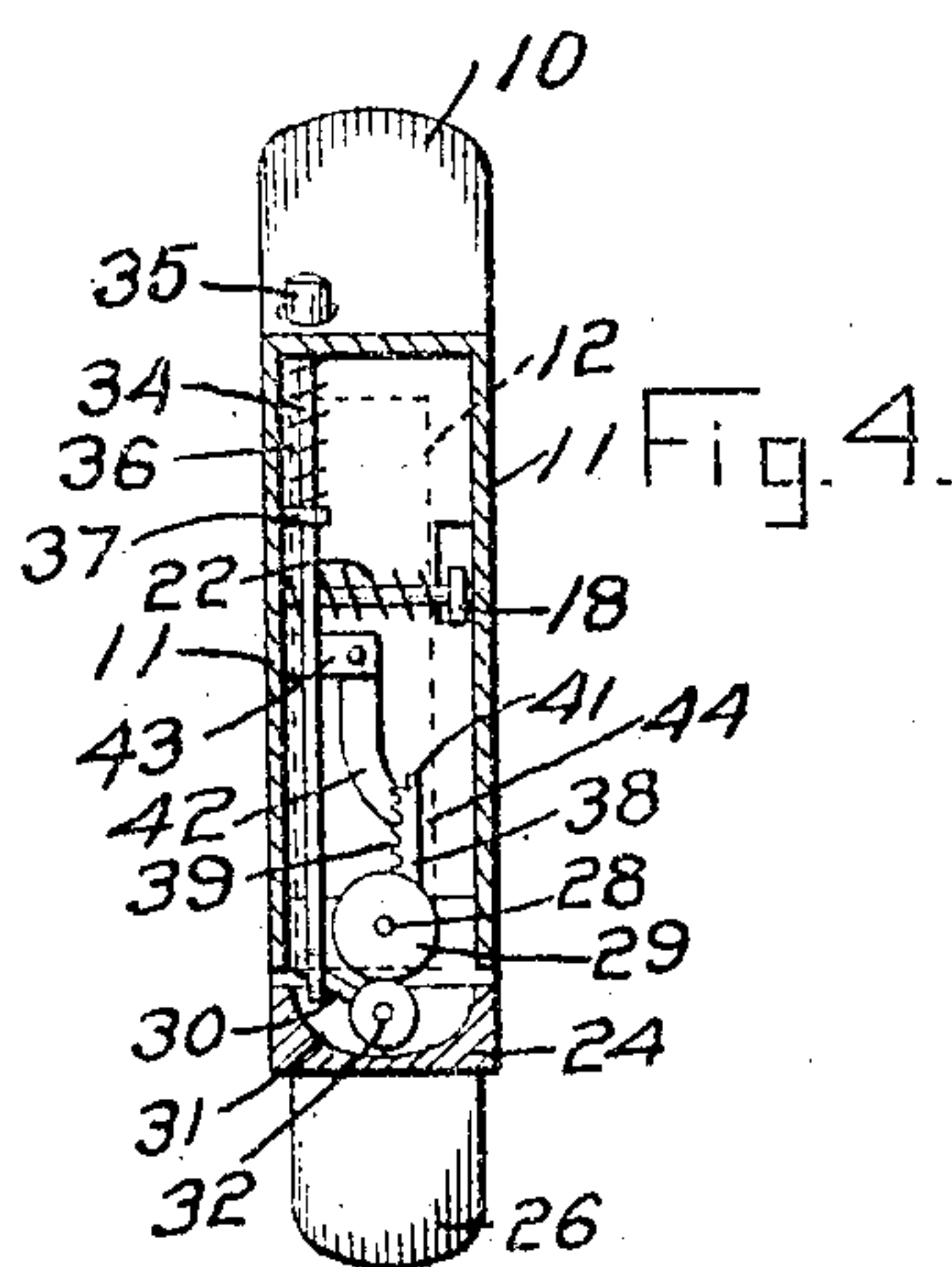
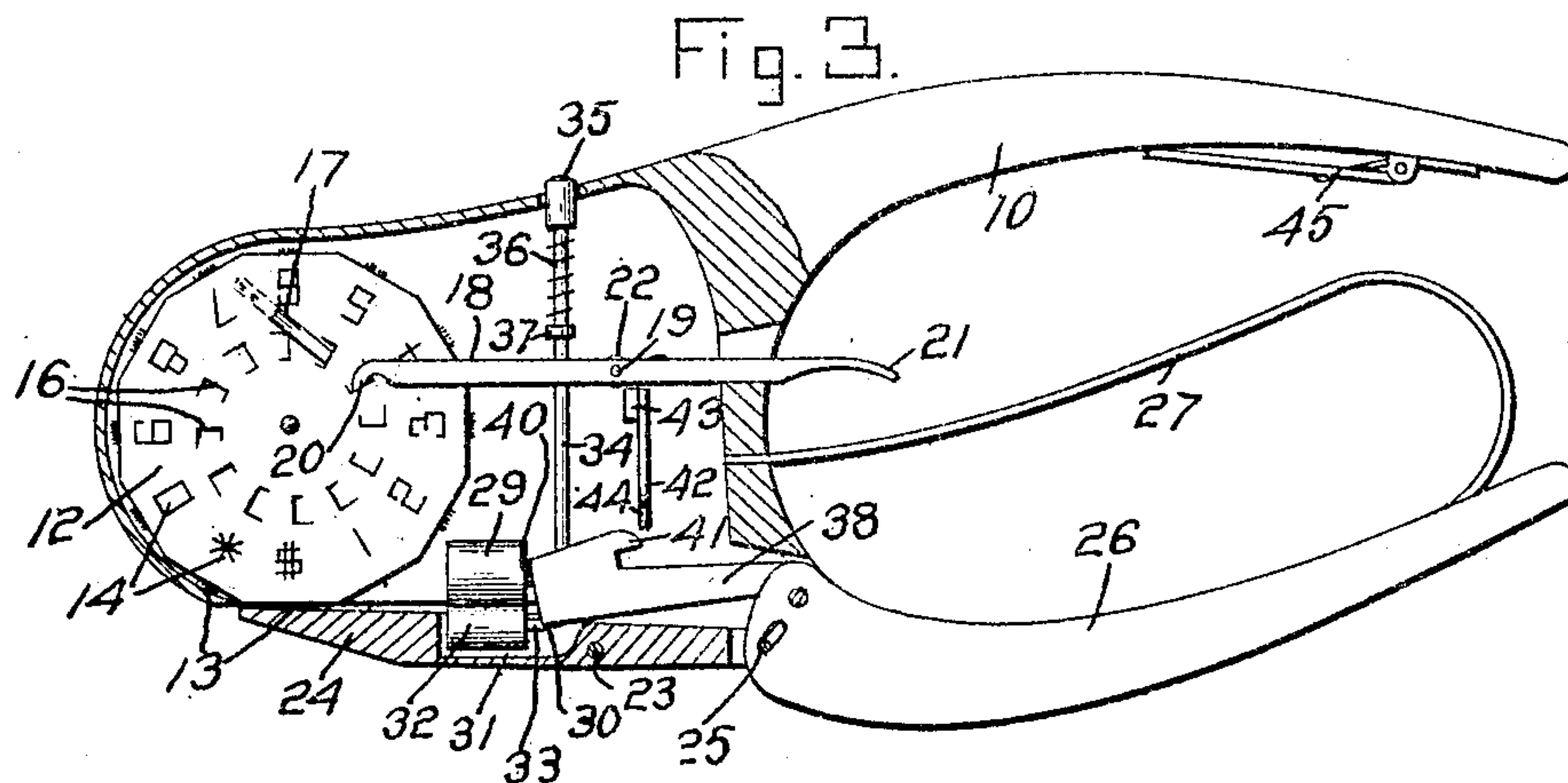
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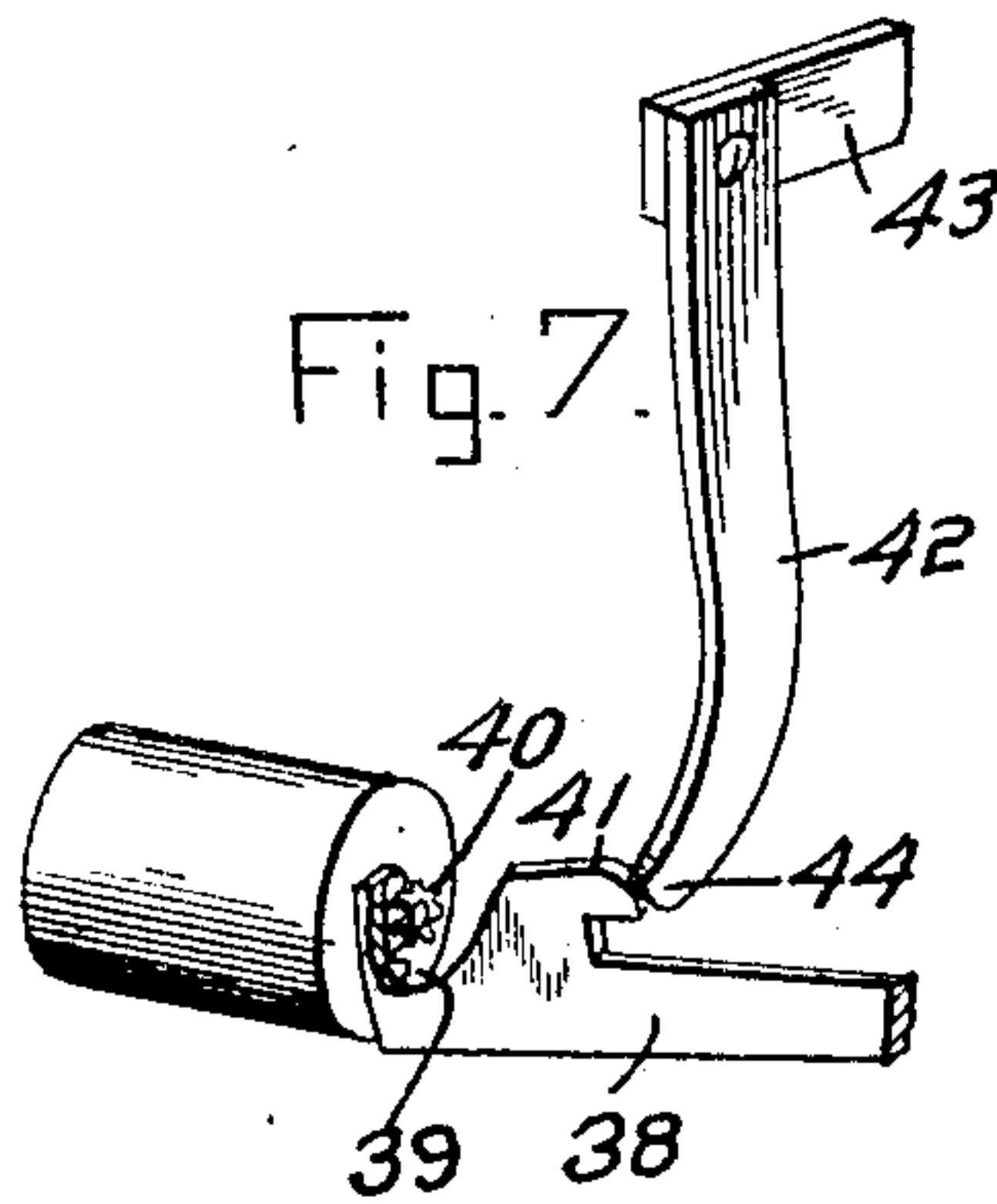
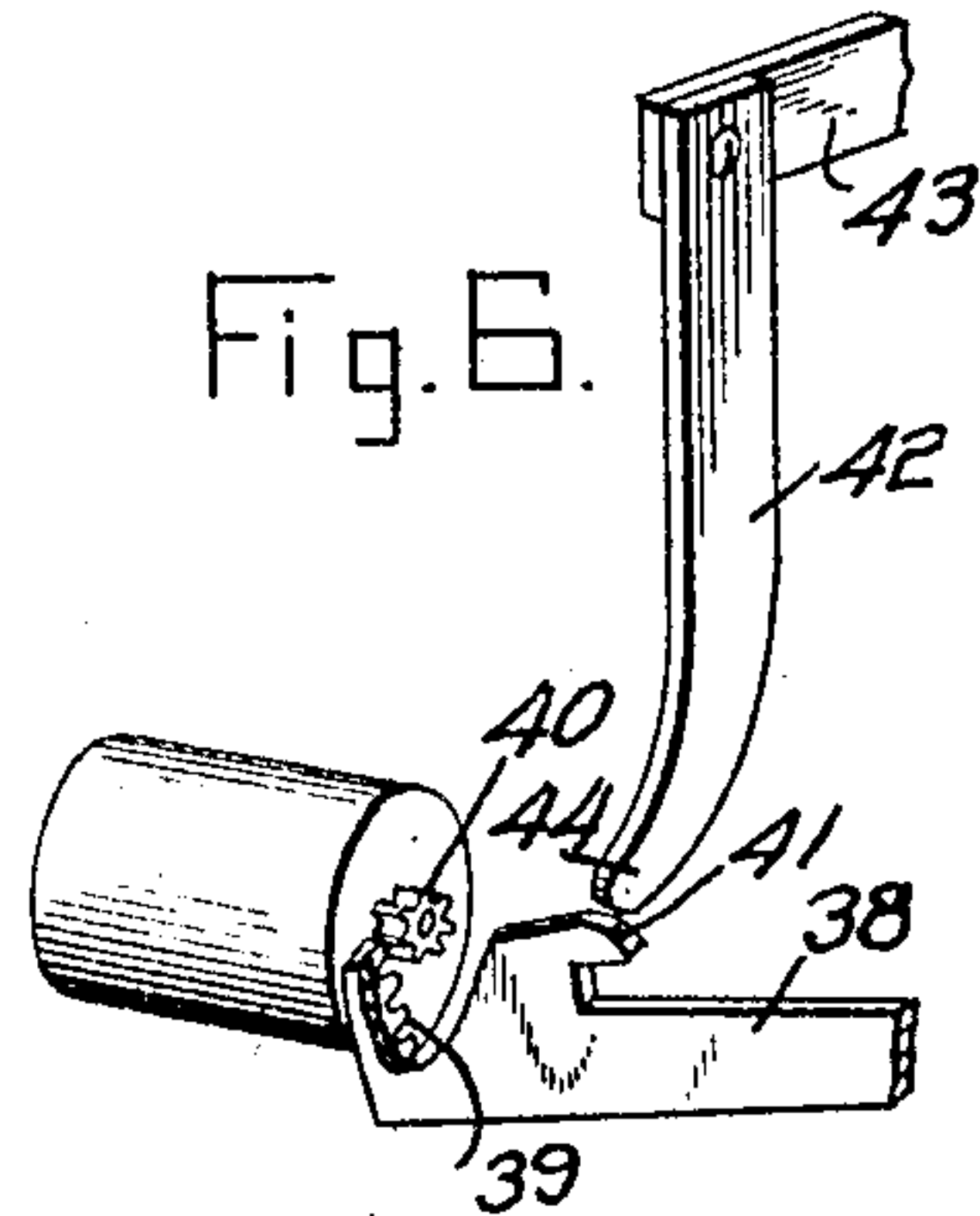
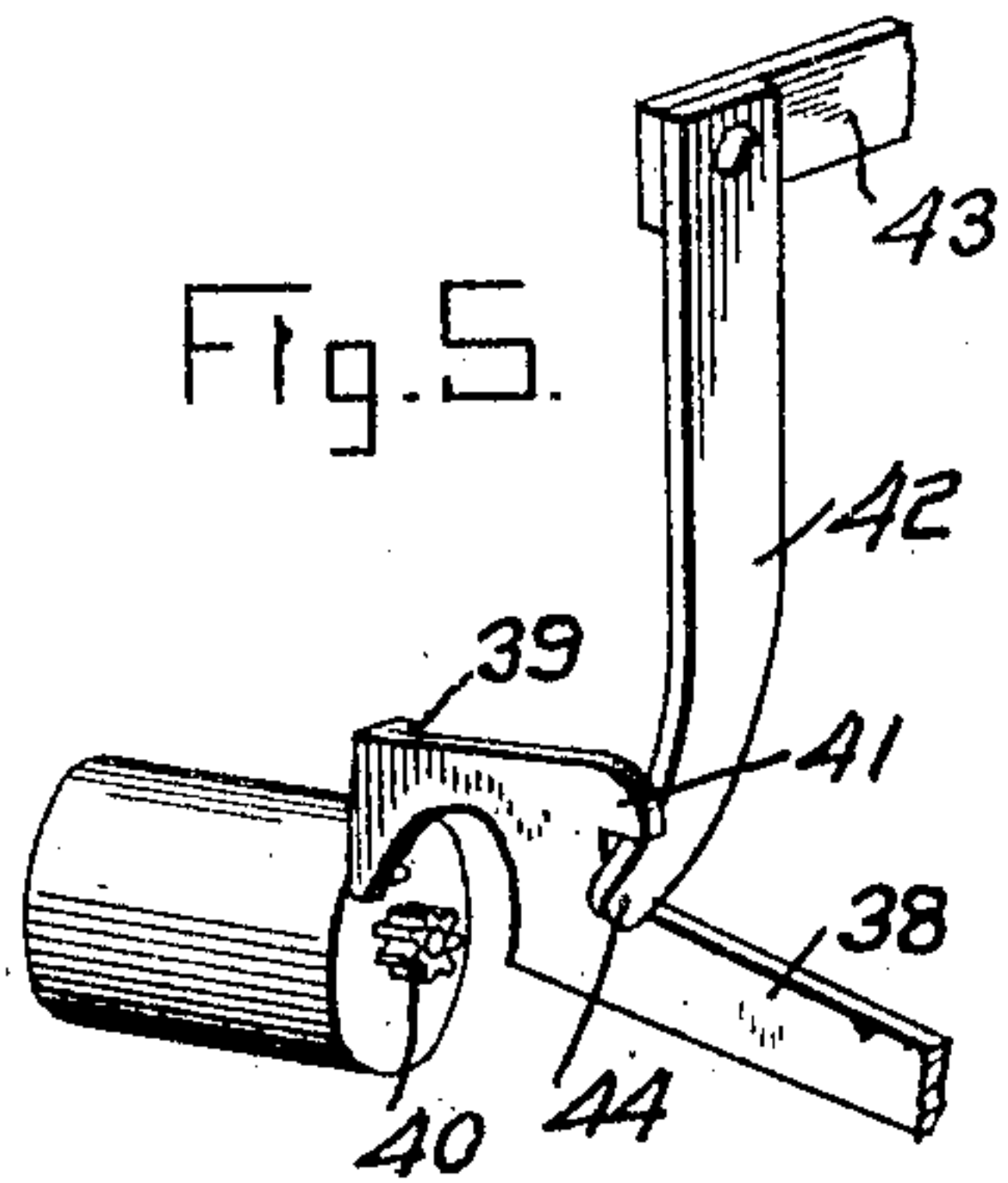
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3 SHEETS—SHEET 3.



Inventor

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UNITED STATES PATENT OFFICE.

GUSTAF L. LEISNER, OF STEPHEN, MINNESOTA.

CHECK-PUNCHER.

No. 887,665.

Specification of Letters Patent.

Patented May 12, 1908.

Application filed January 29, 1907. Serial No. 354,659.

To all whom it may concern:

Be it known that I, GUSTAF L. LEISNER, a citizen of United States, residing at Stephen, in the county of Marshall, State of Minnesota, have invented certain new and useful Improvements in Check-Punchers; 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 check punchers and has for its object to provide a very simple device of this character which may be operated to punch any desired amount upon a check to prevent raising of the same and the primary object of the invention is to provide a compact device for this purpose which may be carried in a person's pocket and which will automatically be checked so that any number of number perforations may be made in the check.

The device is wholly a hand operative one and includes means within easy reach of the fingers of the operator's hand for arranging the device for the reception of a check, for setting the character wheel to any desired point and a single means for operating the punch and for feeding the check, the check being fed when the punch operating means is released.

Broadly speaking my device comprises a fixed handle member including a pocket in which a character disk or wheel is rotatably mounted, means adapted to be operated by the fore finger of the user to feed the character wheel to the desired number or character, a jaw pivoted in the pocket and adapted to be operated by a pivoted handle member to force the check against the character upon the wheel, and means operated by the automatic return of the lever or a handle to feed the check into position for the impression of the next character.

In the accompanying drawings, Figure 1 is a side elevation of the device, Fig. 2 is a similar view with the rear side of the casing broken away, Fig. 3 is a similar view showing the position of the parts when the check moving jaw is in operative position, Fig. 4 is a detail vertical transverse sectional view taken directly in the rear of the character wheel, Fig. 5 is a detail view of a portion of the mechanism showing the position of the parts normally, Fig. 6 is a similar view showing the position of these parts at the time of

pressing the handle, and, Fig. 7 is a similar view showing the position of the parts when the handle is midway between the limits of its movement.

Referring more specifically to the drawings the device is shown as comprising a fixed handle member 10 formed integral with which are cheek pieces 11 which constitute a casing for the reception of the operating parts of the device. Journaled for rotation in the forward end of the casing thus formed is a character wheel 12 which is polygonal in form and has upon each of its faces a character 13 the nature of which is indicated by a similar printed character 14 upon one of the side faces of the wheel and may be viewed through an opening 15 in the adjacent cheek piece. Formed in the same side of the character wheel is an annular series of recesses 16 and secured upon the adjacent cheek piece 11 with its free end projecting in the path of these recesses or notches as they may be properly termed is a spring detent 17 which serves to permit rotation of the wheel in one direction but prevents its rotation in the opposite direction. In order that this wheel may be rotated to bring one of the characters upon it into proper position for impression upon the check as will be presently fully described, a lever 18 is provided and this lever is pivoted as at 19 between the cheek pieces and extends forwardly from its pivot point and has its extreme forward end curved slightly downwardly and flattened as at 20 and directed in the path of the notches 16 formed in the wheel, the said lever being preferably of resilient metal so that its flattened end may be turned out from the notches by the rotation of the wheel without placing any strain upon the pivot 19. The lever also extends rearwardly of its pivot point and slightly beyond the rear edges of the cheek pieces 11 and is bent to form a finger piece 21 which may be engaged by the fore finger of the operator's hand to rock the lever and rotate the wheel it being understood that as soon as the wheel has been rotated one degree or notch, the detent 17 springs into the next notch and holds the wheel against backward rotation and further permits return of the lever to its normal position without effecting the wheel, this return being had by means of a spring 22 which is coiled around the pivot pin 19 and engaged over the lever adjacent its pivot.

Pivoted as at 23 between the lower edges

of the cheek pieces 11 and with its forward end extending to a point directly beneath the cut-away portion 15 and beneath the lowermost point which any of the character can reach due to rotation to the wheel 12 is a jaw 24 which is pivotally connected at its rear end as at 25 to a pivoted handle 26 with which is connected a bowed spring 27 which serves to normally hold the handle at one limit of its movement, the said spring being also connected between the cheek pieces. The point of connection of the jaw 24 with the handle is below the pivot point for the handle itself and when the handle is in normal position the forward end of the jaw 24 is held out of engagement with the character wheel 12 although it will be understood by inspecting the drawings that the pressure upon the handle 26 will swing the rear end of the jaw 24 downwardly and its forward end upwardly and against the character wheel.

My device aside from the features and mechanisms heretofore disclosed also includes a mechanism for feeding a check beneath the character wheel and between the same and the jaw 24 and the said mechanism will now be described. Journaled for rotation between the cheek pieces 11 and upon a small stub shaft 28 is a roller 29 which may be of rubber or other suitable friction material and journaled upon a shaft 30 and received within a recess 31 formed in the upper face of the jaw 24 is a roller 32, the said roller being positioned directly beneath the roller 29. The shaft 30 is not a straight shaft but is connected for rocking movement with one of the cheek pieces 11 and is thence turned inwardly and then forwardly as at 33 to form a cranked portion with which is connected the lower end of a push rod 34 at the upper end of which is secured a press button 35 which may be depressed to cause the rod 34 to move downwardly and to swing the shaft 30 in such a manner that the roller 32 will be moved out of contact with the roller 29 for the reception of a check between the rollers. A spring 36 is engaged upon the rod 34 and at its upper end bears against the under side of the press button 35 and at its lower end against a guide 37 which extends from one to the other of the cheek pieces and through which the rod 34 passes, the tendency of this spring being to normally force the rod upwardly and swing the shaft 30 in a corresponding direction to hold the roller 32 in close engagement with the roller 29 thereby frictionally holding the check between the rollers.

Secured to the forward end of the handle 26 and extending forwardly therefrom is a leaf spring 38 at the forward edge of which is formed a series of teeth 39 which are designed for engagement at times with a small pinion 40 formed integral with the roller 29. Upon its upper edge the leaf spring 38 is pro-

vided with a rearwardly projecting finger 41 which overlies the upper edge of the spring 38 and with which is adapted for engagement a similar spring 42 secured to a strip 43 which connects the cheek pieces 11. This spring has its edge adjacent the spring 38 turned laterally at its lower end as at 44, it being understood that the said spring 42 is located in a plane substantially at right angles to the plane occupied by the spring 38. Now it will be observed from the various figures of the drawings illustrating this portion of my mechanism that when the handle 26 is in its normal position, the intumed lower end of the spring 42 is engaged between the finger 41 and the upper edge of the spring 38 and that when the handle is pressed to move the jaw 24 against the character wheel 12, the spring 38 will be forced to one side and away from the gear 40 by means of the said lower end portion of the spring 42 and it will further be observed that as soon as the handle 26 is released the curved under edge of the spring 42 will serve to move the spring 38 with its teeth 39 in engagement with the gear 40 to rotate the roller 29 and the roller 32 and thereby feed the check positioned between the rollers from right to left and that as soon as the handle 26 has resumed its normal position, the lower end of the spring 42 will spring into position between the finger 41 and the upper edge of the spring 38.

In order that the device may be carried in the pocket of the user and to eliminate the possibility of loss I have provided a resilient clip 45 upon the fixed handle member 10.

What is claimed is—

1. A hand check punch comprising a fixed handle provided with integral cheek pieces, a movable handle pivoted between the cheek pieces, a character wheel rotatably journaled between the cheek pieces, a check supporting jaw pivoted between the cheek pieces and to the movable handle whereby when the handle is moved in one direction the jaw will be rocked to bring the check against the character wheel, and means operated by the return of the pivoted handle to feed a check upon the jaw.

2. A hand check punch comprising a fixed handle provided with integral cheek pieces, a movable handle pivoted between the said cheek pieces, a character wheel journaled for rotation between the cheek pieces, a check supporting jaw pivoted between the cheek pieces for rocking movement and having operative connection with the movable handle whereby when the handle is moved in one direction the jaw will be moved in the direction of the character wheel, and a frictional feed device adapted for actuation by the pivoted handle upon the return of the same to normal position.

3. A hand check punch comprising a fixed handle provided with integral cheek pieces,

a movable handle pivoted between the cheek pieces, a character wheel rotatably journaled between the cheek pieces, a jaw pivoted for rocking movement between the cheek pieces, said jaw having operative connection with the pivoted handle whereby movement of the handle in one direction will move the jaw in the direction of the character wheel, a friction feed roller journaled between the cheek pieces, connection between the said roller and the pivoted handle whereby the roller will be rotated upon return of the handle to its normal position, and a second roller journaled beneath the first mentioned roller and movable manually out of engagement therewith to permit of the insertion of a check therebetween and the frictional feed roller.

4. A hand check punch comprising a fixed handle provided with integral cheek pieces, a movable handle pivoted between the cheek pieces, a character wheel rotatably journaled between the cheek pieces, a jaw pivoted between the cheek pieces for rocking movement, said jaw having operative connection with the pivoted handle whereby movement of the handle in one direction will result in a movement of the jaw in the direction of the character wheel, a check feeding roller journaled at a point between the cheek pieces, teeth formed upon the roller at one end thereof, and a rack member carried by the pivoted handle and adapted to engage said teeth upon the return of the handle to normal position for the purpose of rotating the roller.

5. A hand check punch comprising a fixed handle provided with integral cheek pieces, a movable handle pivoted between the cheek pieces, a character wheel rotatably journaled between the cheek pieces, a lever arranged for manual operation to impart a step by step movement to the character wheel, means for returning the lever to its normal position after actuation, a jaw pivoted between the cheek pieces for rocking movement and having operative connection with the pivoted handle whereby movement of the handle in one direction will result in a movement of the jaw in the direction of the character wheel, and means for feeding a check between the jaw and the character wheel.

6. A hand check punch comprising a fixed handle provided with integral cheek pieces, a movable handle pivoted between the cheek pieces, a character wheel rotatably journaled between the cheek pieces, a feed lever arranged for operation to impart a step by step rotary movement to the character wheel, a spring arranged to return the lever to its normal position after actuation, a check supporting jaw pivoted between the cheek pieces for rocking movement and having operative connection with the pivoted handle whereby movement of the handle in one di-

rection will result in a movement of the jaw in the direction of the character wheel, and a friction check feed device arranged between the cheek pieces and adapted to be manually operated to receive a check.

7. A hand check punch comprising a fixed handle provided with integral cheek pieces, a movable handle pivoted between the cheek pieces, a character wheel rotatably journaled between the cheek pieces, a jaw pivoted between the cheek pieces for rocking movement and adapted to be moved into engagement with the character wheel, said jaw having operative connection with the pivoted handle whereby it may be so moved, said character wheel being provided in one of its side faces with an annular series of notches, and a manually operable lever bearing against the said face of the wheel in the path of the notches and engageable in the notches whereby upon movement of the lever, a step by step rotary movement will be imparted to the character wheel.

8. A hand check punch comprising a fixed handle provided with integral cheek pieces, a movable handle pivoted between the cheek pieces, a character wheel rotatably journaled between the cheek pieces, a jaw pivoted between the cheek pieces for rocking movement and adapted to be moved into engagement with the character wheel, said jaw having operative connection with the pivoted handle whereby it may be so moved, said character wheel being provided in one of its side faces with an annular series of notches, and a manually operable resilient lever bearing against the said face of the wheel in the path of the notches and engageable in the notches whereby upon movement of the lever, a step by step rotary movement will be imparted to the character wheel.

9. A hand check punch comprising a fixed handle provided with integral cheek pieces, a movable handle pivoted between the cheek pieces, a character wheel rotatably journaled between the cheek pieces, a jaw pivoted for rocking movement between the cheek pieces, said jaw having operative connection with the movable handle whereby movement of the handle in one direction will result in a movement of the jaw in the direction of the character wheel, said character wheel being provided in one of its faces with a series of notches, a lever engageable in the notches and movable to impart a step by step rotary movement to the character wheel, a friction roller journaled intermediate the cheek pieces, means for imparting movement to the roller upon return movement of the pivoted handle to normal position, a second roller journaled beneath the friction roller, and means for normally holding the last mentioned roller in engagement with the first mentioned roller.

10. A hand check punch comprising a fixed handle provided with integral cheek pieces, a movable handle pivoted between the cheek pieces, a character wheel rotatably journaled between the cheek pieces, a jaw pivoted for rocking movement between the cheek pieces, said jaw having operative connection with the movable handle whereby movement of the handle in one direction will result in a movement of the jaw in the direction of the character wheel, said character wheel being provided in one of its faces with a series of notches, a lever engageable in the notches and movable to impart a step by step rotary movement to the character wheel, a friction roller journaled intermediate the cheek pieces, means for imparting movement to the roller upon return movement of the pivoted handle to normal position, a second roller journaled beneath the friction roller, and means for normally holding the last mentioned roller in engagement with the first mentioned roller, said means being operable to separate said rollers for the reception of a check therebetween.

11. A device of the class described comprising a fixed member, a movable member carried by the fixed member, a character wheel journaled for rotation upon the fixed member, a jaw carried by the fixed member and adapted to be moved by the movable member into engagement with the character wheel, means for imparting a step by step movement to the character wheel, a roller journaled upon the fixed member, a shaft having a rocking connection with the fixed member a roller carried by the shaft for rotation thereon, a rod pivotally connected with the shaft and adapted to be moved to rock the shaft and separate the rollers, a spring engaged upon the rod for normally holding the same in position to cause the rollers to contact, a spring connected with

the movable member and having teeth formed at one end thereof, a pinion carried by the first mentioned roller, and means for moving the spring out of position to contact with the pinion during the movement of the movable member to move the jaw and for moving it into such position to contact with the pinion during the return movement of the movable member.

12. A device of the class described comprising a fixed member, a movable member carried by the fixed member, a character wheel journaled for rotation upon the fixed member, a jaw carried by the fixed member and adapted to be moved by the movable member into engagement with the character wheel, means for imparting a step by step movement to the character wheel, a roller journaled upon the fixed member, a shaft having a rocking connection with the fixed member, a roller carried by the shaft for rotation thereon, a rod pivotally connected with the shaft and adapted to be moved to rock the shaft and separate the rollers, a spring engaged upon the rod for normally holding the same in position to cause the rollers to contact, a spring connected with the movable member and having teeth formed at one end thereof, a pinion carried by the first mentioned roller, and a spring for moving the first mentioned spring out of position to contact with the pinion during the movement of the movable member to move the jaw and for moving it into such position to contact with the pinion during the return movement of the movable member.

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

GUSTAF L. LEISNER.

Witnesses:

OTTO ELLERMAN,
J. H. BURLUM.