

L. M. TODD & C. G. TIEFEL.
ELECTRICALLY CONTROLLED CHECK PROTECTOR.
APPLICATION FILED AUG. 12, 1911.

1,062,748.

Patented May 27, 1913.

2 SHEETS-SHEET 1.

Fig. 2

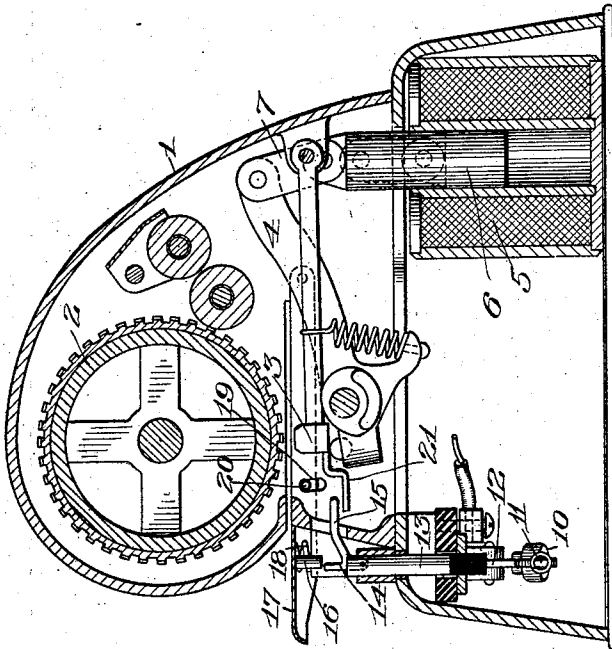
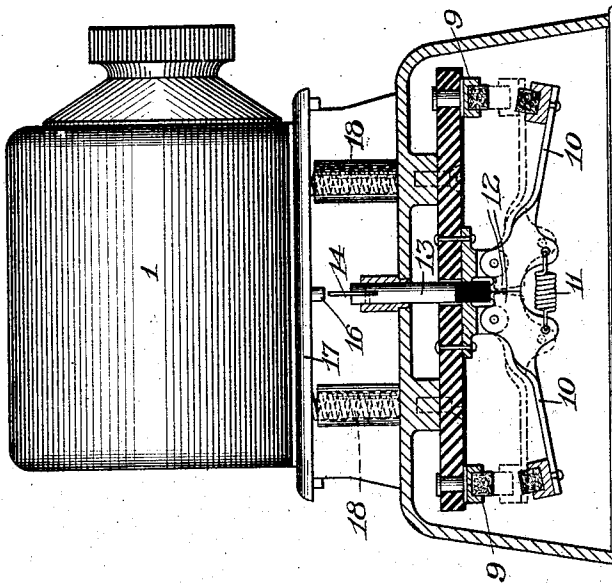


Fig. 1



Inventors

Libanus M. Todd
Charles G. Tiefel

Witnesses

Walter B. Payne
A. E. Stonebraker

By

Charles R. Rich

their Attorneys

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Fig. 3

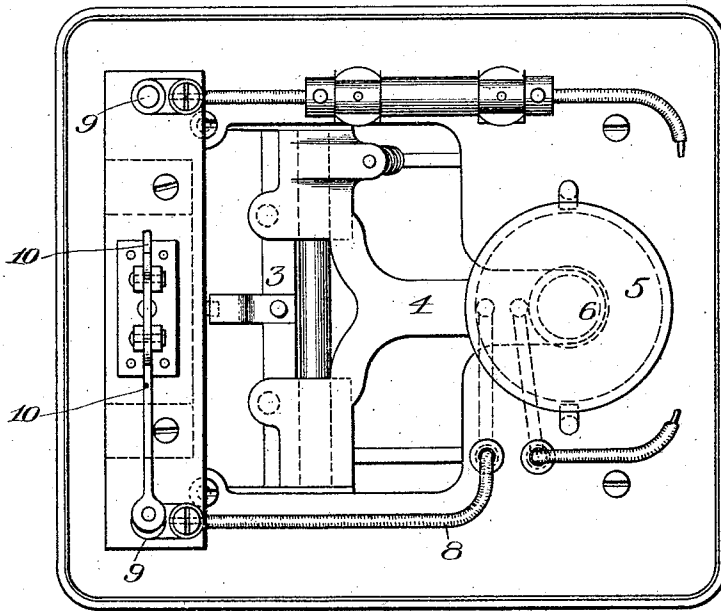
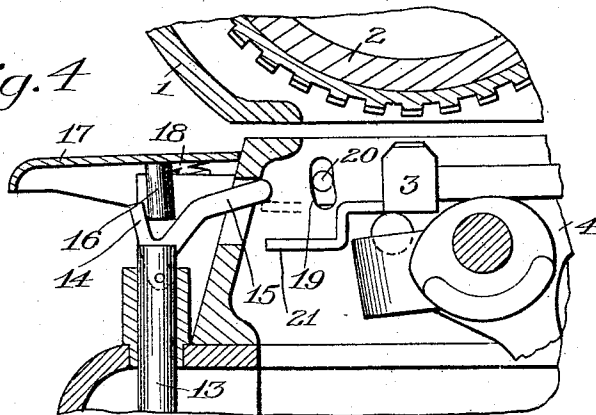


Fig. 4



Inventors
Libanus M. Todd
Charles G. Tiefel

Witnesses

Walter B. Payne
H. E. Stonebraker

By *Charles Rich*
their Attorneys

UNITED STATES PATENT OFFICE.

LIBANUS M. TODD AND CHARLES G. TIEFEL, OF ROCHESTER, NEW YORK, ASSIGNORS
TO G. W. TODD & COMPANY, A FIRM COMPOSED OF GEORGE W. TODD AND LIBANUS
M. TODD, OF ROCHESTER, NEW YORK.

ELECTRICALLY-CONTROLLED CHECK-PROTECTOR.

1,032,743.

Specification of Letters Patent.

Patented May 27, 1913.

Application filed August 13, 1911. Serial No. 643,731.

To all whom it may concern:

Be it known that we, LIBANUS M. TODD and CHARLES G. TIEFEL, both of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Electrically-Controlled Check-Protectors; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

The present invention relates to improvements in electrically controlled check protectors, and it has for its object to provide a check protector in which the operating mechanism is actuated from a source of electrical energy, so that the operator of the machine is required only to close the electrical circuit at each operation, thus effecting a very large increase in the amount of work that may be performed.

To these and other ends the invention consists in certain improvements and combinations of parts all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings: Figure 1 is a view in front elevation, partly in section, illustrating a check protector constructed in accordance with the present invention; Fig. 2 is a vertical sectional view of Fig. 1; Fig. 3 is a bottom plan view, and Fig. 4 is a detail view showing the position of the parts for permitting the operating circuit to be broken while the finger plate remains depressed.

Similar reference numerals throughout the several figures indicate the same parts.

In the present disclosure, which embodies a preferred form of the invention, there is shown a check protector of usual type, and embodying a casing 1, a rotary die holder 2, and a platen 3 which is pivotally mounted and arranged for vertical movement to engage the die holder, in order to move a check into contact with the latter. The platen is moved upwardly by means of the arm 4 which is pivotally supported, as usual in the present type of machine, said arm being suitably connected to an electrically controlled operating device, preferably comprising, as in the present embodiment, the electromagnet 5 including the bar 6 which

is connected to the arm 4 by means of a link 7. The electromagnet 5 is included in an electric circuit 8 deriving current from a suitable source of electrical energy, and including a pair of contacts 9 which are adapted to be connected together in any suitable manner, for effecting operation of the machine. To this end, in the present embodiment, there are provided a pair of pivotally mounted contact arms 10, which are arranged for coöperation with the contacts 9, and are held in normal position by means of the spring 11 connecting them. When the contact arms 10 are moved to engage the contacts 9, a flow of current is established between the contacts 9 through the respective contact arms 10, and the circuit thus closed. The arms 10 may be operated in any suitable manner, and to this end are preferably provided with the adjacently arranged projections 12, which are adapted to be simultaneously engaged by the plunger 13, suitably mounted in the frame of the machine. The plunger 13 is preferably provided with the pivoted post 14 having an inwardly extending arm 15, all for a purpose that will presently be made clear. The post 14 normally occupies the position shown in Figs. 1 and 2, owing to the weight of the arm 15, and in such position, is adapted to be engaged by the projection 16 arranged on the finger plate 17, which is pivotally arranged at the front of the machine in a convenient position to be moved by the operator. The finger plate is held in its normal upper position by means of the springs 18, its movement being limited by a slot 19 arranged in the casing and engaged by a coöperating pin 20 carried on the finger plate.

It will be observed that upon moving the finger plate downwardly, the projection 16 engages the post 14, causing a similar downward movement of the plunger 13, and consequent spreading of the contact arms 10 which engage the contacts 9 and close the circuit, energizing the electromagnet 5. In case the operator of the machine negligently holds the finger plate down, it is desirable to provide means for opening the circuit after a single operation of the machine, and to this end, there is provided a forwardly and downwardly extending arm 21 carried by the platen 3, and adapted to engage beneath

the previously mentioned arm 15, arranged on the post 14. The post 14 moves downwardly and is thrown forwardly on its pivot upon the upward movement of the platen 3, which causes engagement between the respective arms 15 and 21, so as to release the plunger 13, and permit the spring 11 to return the contact arms 10 to their normal position, and open the circuit. This arrangement provides an absolute safe-guard against continued closing of the circuit, so that at each operation of the finger plate, the machine is actuated to mark a check, and the parts are returned to normal positions, regardless of whether the finger plate is released immediately or not.

Suitable insulation is provided on the plunger, and the several contacts, as shown, to prevent short circuiting of the current.

We claim as our invention:

1. In a check protector, the combination with a die, of a platen movable to bring a check into engagement with the die, a pivoted actuating member movable independently of the platen having one end arranged directly under the platen so as to contact therewith and its opposite end at a point removed from the platen, an electric circuit, an electromagnet in the circuit having connection with the actuating member at the end removed from the platen, a switch for closing the circuit and means adapted to be actuated simultaneously with the insertion of a check for operating said switch.

2. In a check protector, the combination with a die, of a platen movable to bring a check into engagement with the die, a pivoted actuating member movable independently of the platen having one end arranged directly under the platen so as to contact therewith and its opposite end at a point removed from the platen, an electric circuit, an electromagnet in the circuit having connection with the actuating member at the end removed from the platen, a switch for closing the circuit and means arranged in the path of the check for operating said switch.

3. In a check protector, the combination with a die, of a platen movable to bring a check into engagement with the die, a pivoted member movable independently of the platen having one end arranged directly under the platen so as to contact therewith and its opposite end at a point removed from the platen, an electric circuit, an electromagnet in the circuit having connection with the actuating member at the end removed from the platen, a switch for closing the circuit and means for simultaneously supporting the check and operating said switch.

4. In a check protector, the combination with a die, of a platen movable to bring a check into engagement with the die, a piv-

oted actuating member movable independently of the platen having one end arranged directly under the platen so as to contact therewith and its opposite end at a point removed from the platen, an electric circuit, an electromagnet in the circuit having connection with the actuating member at the end removed from the platen, a switch for closing the circuit, and a finger plate adapted to operate said switch.

5. In a check protector, the combination with a die, of a platen movable to bring a check into engagement with the die, a pivoted actuating member movable independently of the platen having one end arranged directly under the platen so as to contact therewith and its opposite end at a point removed from the platen, an electric circuit, an electromagnet in the circuit having connection with the actuating member at the end removed from the platen, a switch for closing the circuit and a finger plate arranged in the path of movement of the check and adapted to operate said switch.

6. In a check protector, the combination with a die, of a platen movable to bring a check into engagement with the die, an actuating member for effecting movement of the platen, an electric circuit, an electromagnet in the circuit for controlling said actuating member, a switch for closing the circuit including a pair of spring-controlled contact arms, a plunger having operative engagement with the contact arms, and a finger plate adapted to operate said plunger.

7. In a check protector, the combination with a die, of a platen movable to bring a check into engagement with the die, an actuating member for effecting movement of the platen, an electric circuit, an electromagnet in the circuit for controlling said actuating member, a switch for closing the circuit including a pair of spring-controlled contact arms, a plunger having operative engagement with the contact arms, and a finger plate adapted to operate said plunger, the plunger being adapted for movement independently of the finger plate.

8. In a check protector, the combination with a die, of a platen movable to bring a check into engagement with the die, an actuating member for effecting movement of the platen, an electric circuit, an electromagnet in the circuit for controlling said actuating member, a switch for closing the circuit including a pair of spring-controlled contact arms, a plunger having operative engagement with the contact arms, and a finger plate arranged to engage the plunger in one direction of movement and to permit free movement of the plunger in the opposite direction.

9. In a check protector, the combination with a die, of a platen movable to bring a check into engagement with the die, an

actuating member for effecting movement of the platen, an electric circuit, an electromagnet in the circuit for controlling said actuating member, a switch for closing the circuit including a pair of spring-controlled contact arms, a plunger having operative engagement with the contact arms, and a finger plate arranged to engage the plunger for closing the circuit, said plunger being adapted to move independently of the finger plate for opening the circuit.

10 10. In a check protector, the combination with a die, of a platen movable to bring a check into engagement with the die, an

actuating member for effecting movement of 15 the platen, an electric circuit, an electromagnet in the circuit for controlling said actuating member, a switch for closing the circuit, and a finger plate adapted to move the switch for closing the circuit, said switch 20 being arranged to open independently of the finger plate.

LIBANUS M. TODD.
CHARLES G. TIEFEL.

Witnesses:

LEONARD I. HALL,
GUS F. ALDINGER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."