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L. S. STANKIEWICZ

CIRCUIT CLOSER FOR BURGLAR ALARMS

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Fig. 1

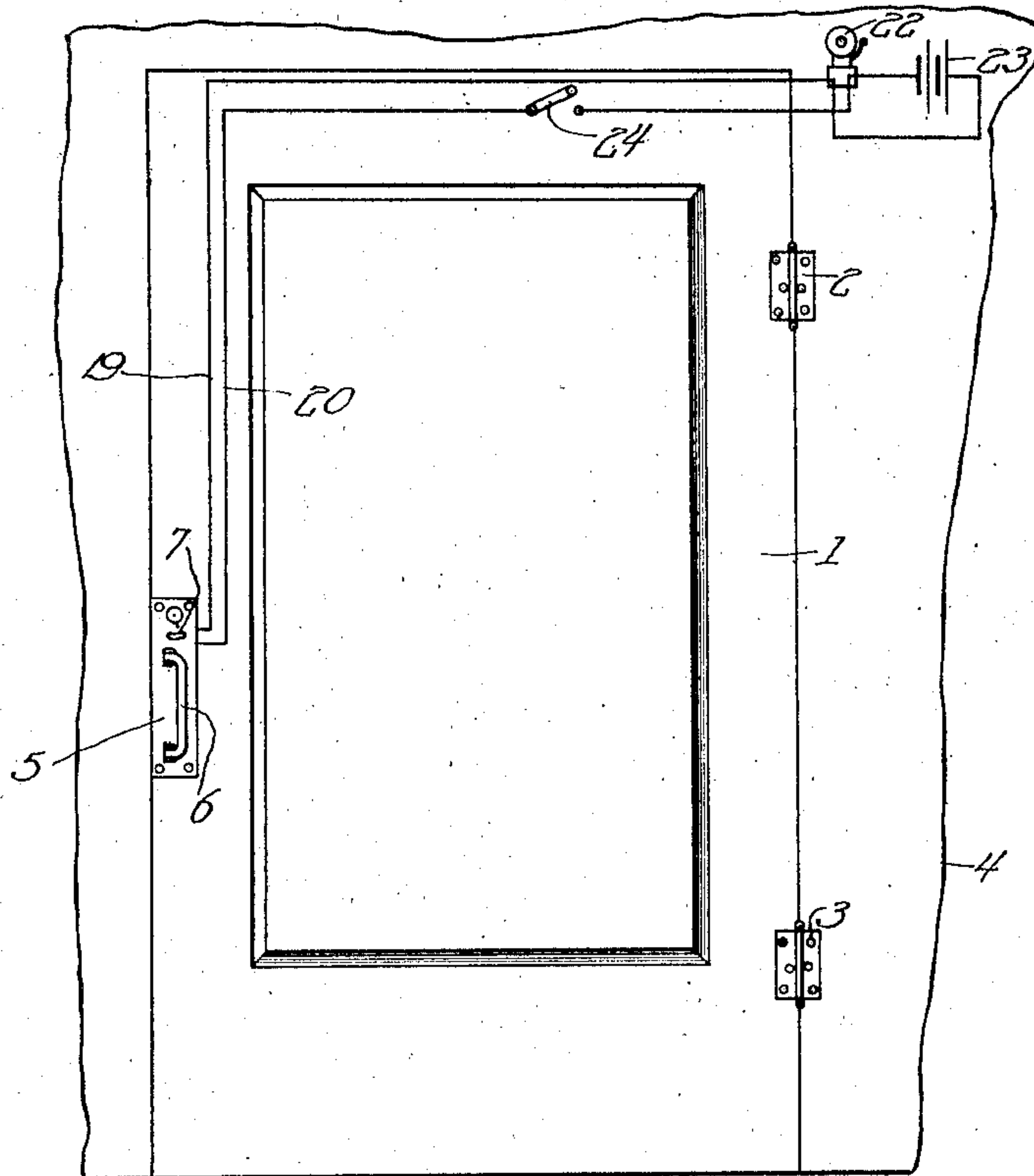


Fig. 2

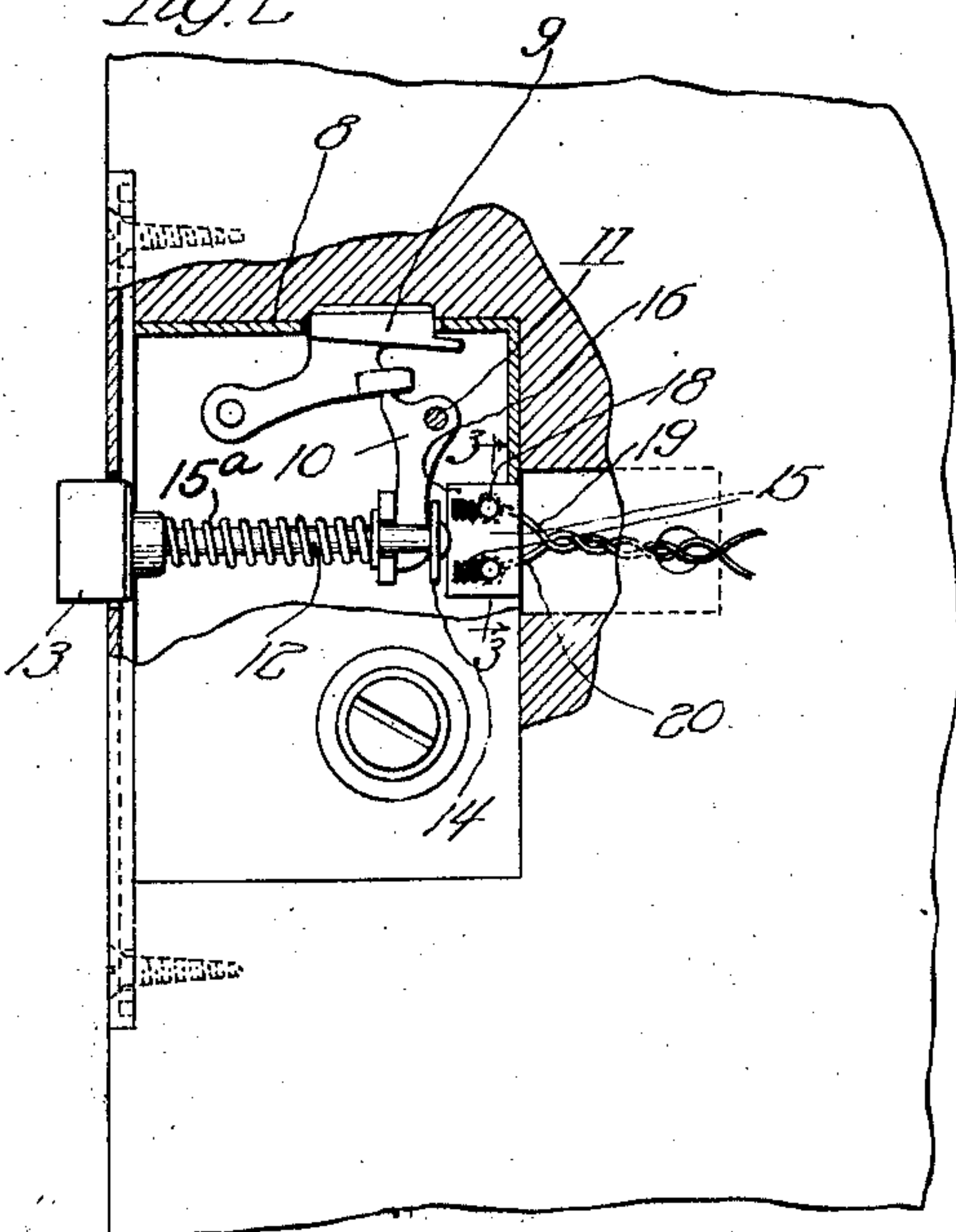
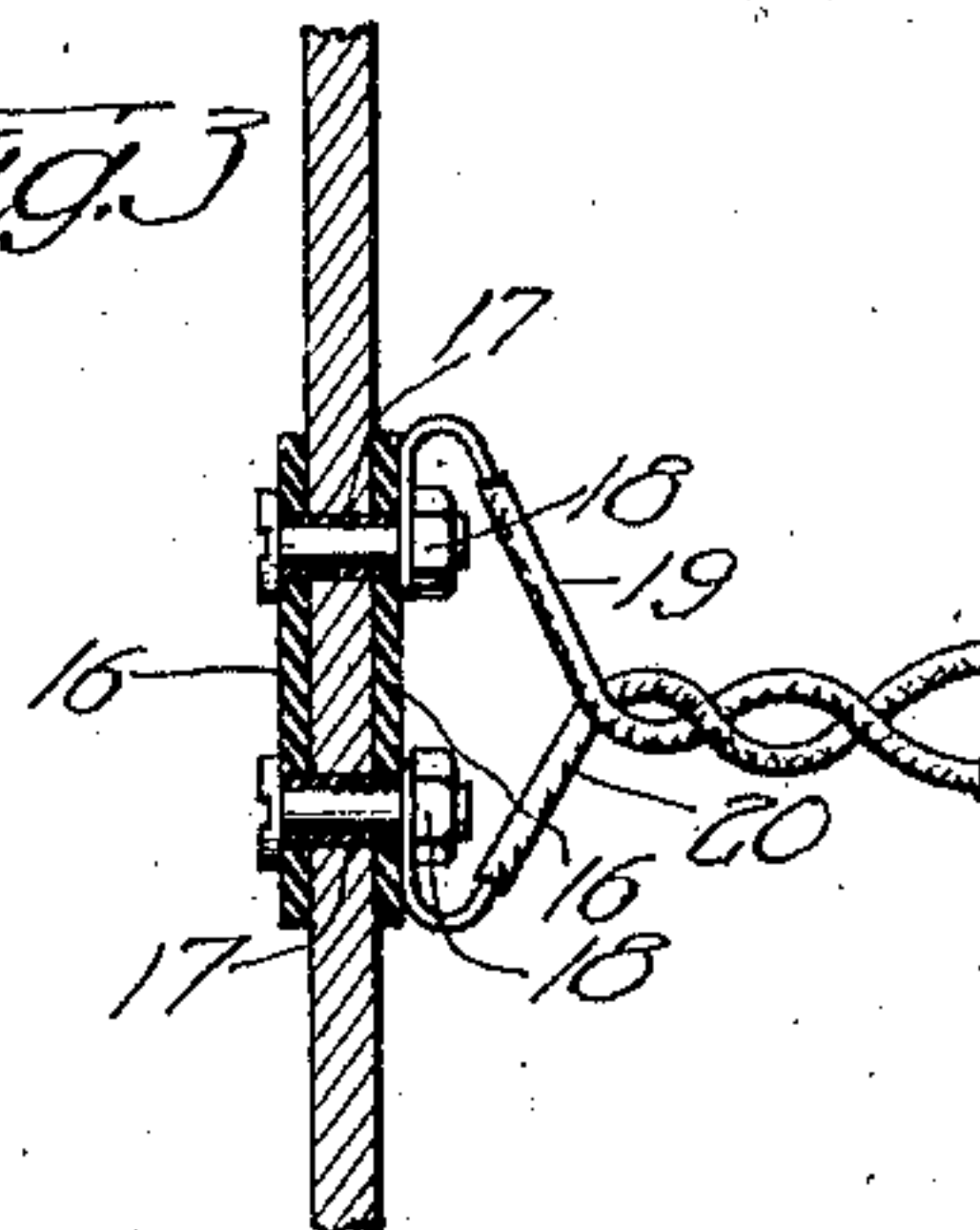


Fig. 3



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UNITED STATES PATENT OFFICE.

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CIRCUIT CLOSER FOR BURGLAR ALARMS.

Application filed December 22, 1919. Serial No. 346,655.

To all whom it may concern:

Be it known that I, LUDWIK S. STANKIEWICZ, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Circuit Closers for Burglar Alarms, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings forming a part of this specification.

My invention relates to circuit closer for burglar alarms.

One of the objects of the invention is to provide a novel and advantageous circuit closer for burglar alarms.

Another object of the invention is to make the system inexpensive in construction, and accurate and reliable in operation.

In the accompanying drawings Fig. 1 is a front elevation of a door provided with a burglar alarm arrangement embodying my invention;

Fig. 2 is a sectional view of a portion of the door and part of the burglar alarm arrangement; and

Fig. 3 is a sectional view showing a detail of construction.

In the drawings I show a door 1 mounted on hinges 2 and 3, which are secured to a wall 4. The door is provided with a plate 5 having a handle 6. A knob 7 is provided which has a spindle 7^a passing through the plate 5. The knob operates in connection with a lock 8 which is mounted in the door as best shown in Fig. 2.

By turning knob 7, a pivoted member 9 which is mounted on spindle 7^a is rotated, thereby actuating a bell crank 10 pivoted at 11. The bell crank 10 operates the bolt 12 which is arranged to slide back and forth to latch the door and is provided at its outer end with the usual inclined end member 13. The inner end of the bolt 12 is provided with a washer 14 and this is arranged to act simultaneously upon coiled spring members 15, which latter are secured to the wall or frame of the lock, but insulated therefrom by means of insulated strips 16—16 on opposite sides of said wall or frame member, and also by tubular insulat-

ing pieces 17—17 surrounding the bolts 18 by which said springs 15 are secured in position. Coiled spring 15^a encircles and yieldingly holds the bolt in its outer position.

Electrical conductors 19 and 20 are connected to the bolts or screws 18 and are extended from the same to a suitable burglar alarm.

In the arrangement shown these conductors 19 and 20 extend along the door, either inside or outside of the same to an alarm 22 such as an electric bell or buzzer. A battery 23 is shown connected in the circuit, as is also an opening and closing switch 24.

When the bolt 12 is moved in to unlatch the door, the washer 14 will strike against the springs 15 and thereby close the circuit through the conductors 19 and 20, and this will cause the operation of the alarm 22. Obviously the bolt 12 must be operated in order to open the door, so that even though the burglar succeeds in picking the lock and entering the house, nevertheless the alarm will be given simply by throwing the ordinary bolt by operating the knob 7. To make the alarm or system inoperative, as for example, during the day with the family in the house, the switch 24 may be opened.

Obviously the arrangement may be applied to various forms or types of locks, and to various parts or movable members thereof, and various other changes and modifications may be made without departing from the spirit of the invention.

What I claim is:

A lock operated circuit closer comprising a pair of contact members, a longitudinally movable bolt, a washer mounted on the bolt so as to bridge the contact members when the bolt is moved inwardly, a knob, a pivoted member, a bell crank abutting the washer, said bell crank and pivoted member operatively connecting the knob with the bolt, and a spring yieldingly holding the washer away from the contact members.

In witness whereof, I hereunto subscribe my name this 19th day of December, A. D. 1919.

LUDWIK S. STANKIEWICZ.