

J. G. PAYTON.
BURGLAR ALARM.
APPLICATION FILED JULY 24, 1909.

956,160.

Patented Apr. 26, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

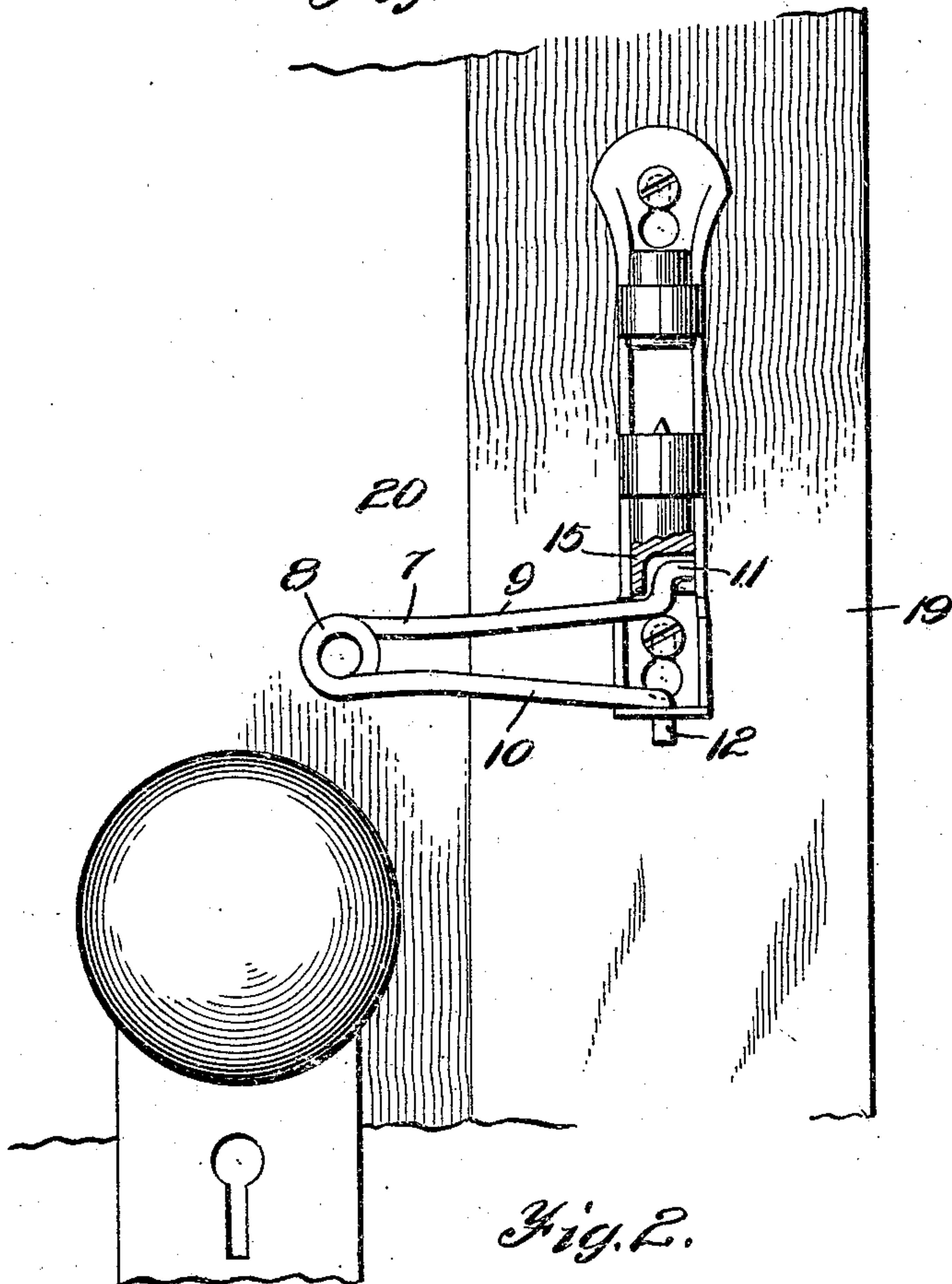
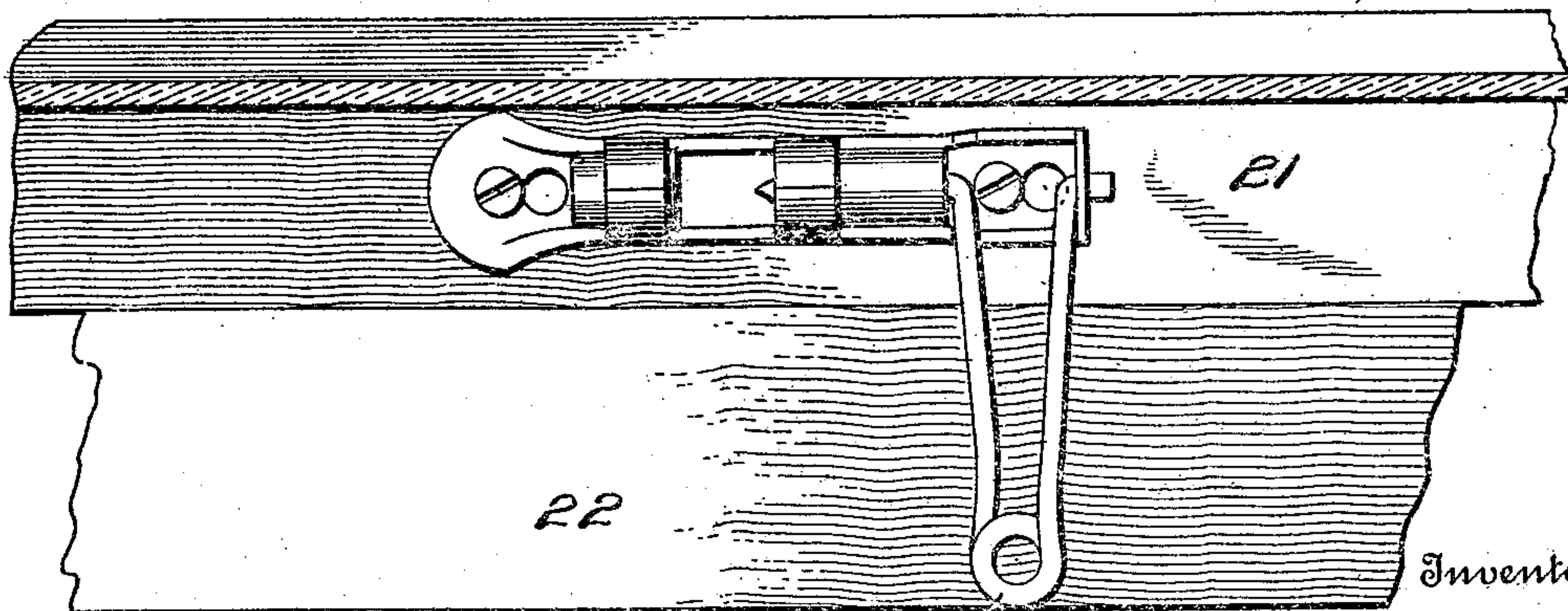


Fig. 2.



Inventor

John G. Payton

Witnesses

H. K. Ketchum
D. W. Gould

By *Victor J. Evans*

Attorney

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2 SHEETS—SHEET 2.

Fig. 3.

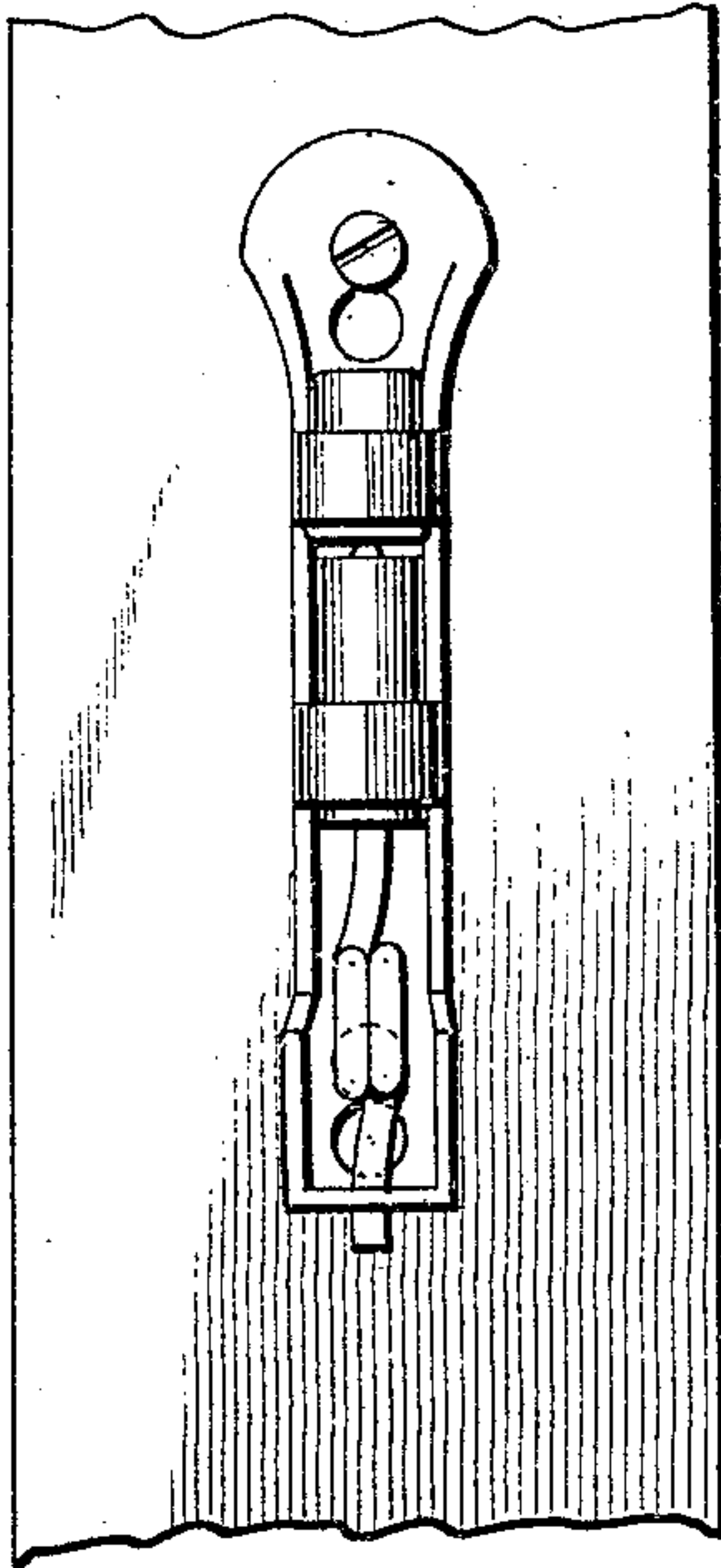


Fig. 4.

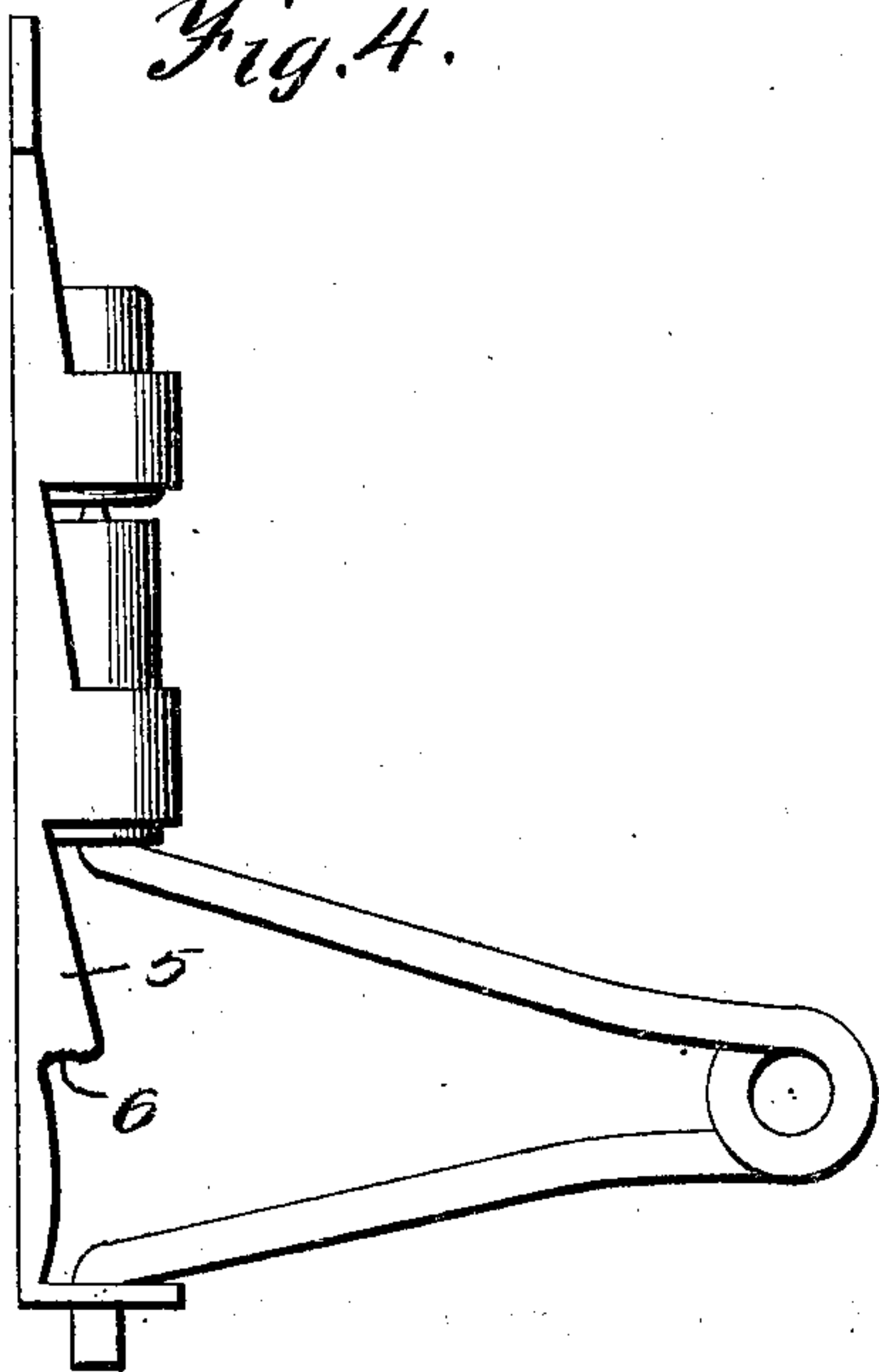
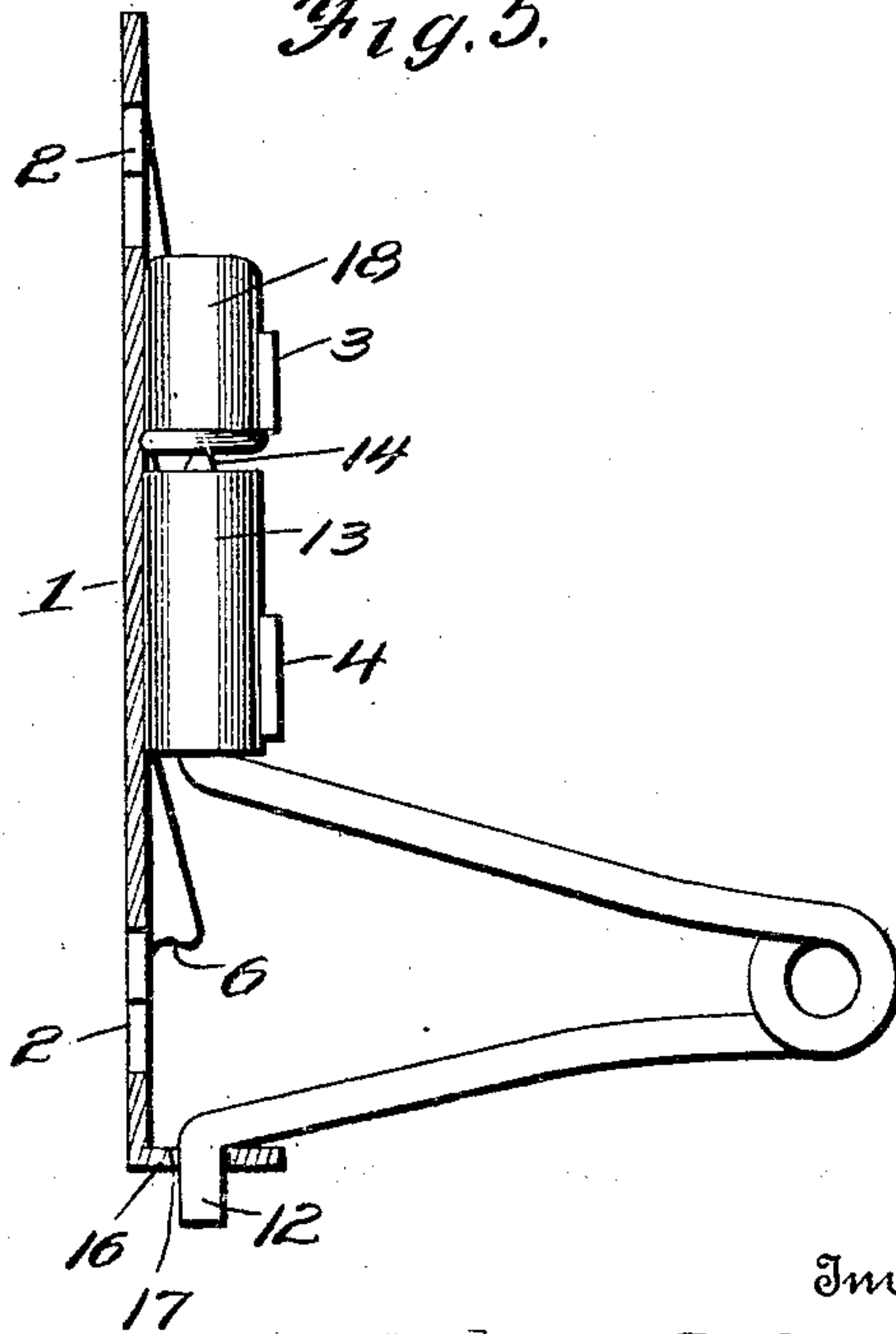


Fig. 5.



Witnesses
H. L. Moore
D. W. Gould.

Inventor
John G. Payton
By *Victor J. Evans*
Attorney

UNITED STATES PATENT OFFICE.

JOHN G. PAYTON, OF DUNKIRK, INDIANA, ASSIGNOR OF ONE-HALF TO THOMAS W. KEASBEY, OF DUNKIRK, INDIANA.

BURGLAR-ALARM.

956,160.

Specification of Letters Patent.

Patented Apr. 26, 1910.

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To all whom it may concern:

Be it known that I, JOHN G. PAYTON, a citizen of the United States, residing at Dunkirk, in the county of Jay and State of Indiana, have invented new and useful Improvements in Burglar-Alarms, of which the following is a specification.

The invention relates to an improvement in burglar alarms and is particularly directed to an alarm structure, which may be manually set for operation by a movable part, as the opening of a window or door, and when so operated will act to sound an audible alarm, as the firing of a cartridge.

The main object of the present invention is the provision of a burglar alarm including a firing pin adapted to be moved into firing position by and under the influence of a spring, the alarm being formed to normally hold the spring inactive until the normal position of such spring is changed by the movement of the structure with which the alarm is arranged to cooperate.

The invention will be described in the following specification, reference being had particularly to the accompanying drawings, in which:—

Figure 1 is a broken elevation showing the improved alarm set for protecting a door. Fig. 2 is a plan partly in section, showing the alarm set to protect a window. Fig. 3 is an elevation, showing the alarm parts in firing or operated position. Fig. 4 is a side elevation of the same. Fig. 5 is a vertical section of the same partly in elevation.

Referring particularly to the accompanying drawings, wherein is shown a preferred embodiment of the present improvement the alarm comprises a main bracket body 1 comprising an elongated strip of material formed near the upper and lower ends with openings 2, preferably of the keyhole type, for the reception of screws or other fastening means to secure the alarm in applied position.

Integral with the body 1 and near the upper end thereof is formed a sleeve section 3, hereinafter termed the cartridge holder, said holder being preferably constructed by forming laterally projected sections on the opposing side edges of the body before bending the sections into circular form. Below the cartridge holder 3 the body is similarly formed to provide a pin holder 4,

and below the pin holder the side edges of the body 1 are each formed with a forwardly projecting web 5, the forward edge of which inclines forwardly and downwardly from the pin holder 4 terminating in an abrupt preferably undercut shoulder 6, for a purpose which will presently appear.

For use in connection with the body I provide a firing spring 7 comprising a suitable length of spring material centrally formed to provide a coil 8 and projected from the coil to provide upper and lower arms 9 and 10. The upper arm is formed at its free terminal with a right angled projection 11 arranged wholly above the plane of the arm, while the free terminal of the lower arm 10 is turned downwardly to form a pivot pin 12. A firing pin 13 is used in connection with the body, said pin comprising a cylindrical section of such diameter as to freely slide in the holder 4, the upper surface of the pin being provided with a firing point 14 for use with center fire cartridges. The lower portion of the pin is formed with a right angled opening 15 of a size and shape to receive the projections 11 of the spring, said opening extending through the bottom and side walls of the pin, as clearly shown in Fig. 1. The lower end of the body 1 is formed with a forwardly projecting lip 16 having an opening 17 of a size to receive the pivot pin 12 of the spring.

With a cartridge 18 arranged in the holder, which is designed to snugly receive the same with the rim of the cartridge bearing against the lower edge of the holder, the operation of the device is as follows: In setting the device the pivot pin 12 of the spring is inserted in the opening 17 and the right angled projection 11 of the spring arranged in the firing chamber. The spring is then put under tension by forcing the upper arm 9 toward the lower arm, thus drawing the firing pin down in the holder 4 away from the cartridge 18, the movement of the arm 9 being continued until, by turning the spring laterally, said arm can be arranged beneath one of the shoulders 6. In this position the spring is under tension and held laterally of the body beneath the shoulder 6, the firing pin being in the lower or withdrawn position in the shoulder 4.

In arranging the alarm for use with the

door, the body 1 is secured in an upright position on the casing 19 so that when the spring is turned laterally, as just described, in setting it it will overlies the free or moving edge of the door 20. As the door is opened it will force the spring in a direction to disengage the arm 9 from beneath the shoulder 6, freeing the spring for operative movement and thereby forcing up the firing pin and discharging the cartridge.

In arranging the alarm for use with windows the body 1 is secured longitudinally of the lower rail of the upper sash 21, so that when the spring is turned into set position it will overlies the upper rail of the lower sash 22. Therefore, movement of either sash will tend to force the spring from beneath the shoulder 9 releasing the same to affect the firing pin and discharge the cartridge as previously described.

By virtue of the opposing shoulders 6 on the body the alarm is adapted for right or left hand doors or in other words for reverse uses.

The device in its preferred embodiment is of simple construction, and it is to be understood that in this connection I contemplate the use of any material or the formation of the parts in any size desired.

I claim:—

1. A burglar alarm including a body, a cartridge holder carried thereby, a firing pin mounted for sliding movement within the body, a spring including spaced arms, one of said arms being formed with a right angled projection to engage a similarly formed opening in the pin, the other of said

arms being formed with a depending portion to engage a pivot opening formed in the body, said body being formed with opposing shoulders beneath either of which one of the arms may be engaged to maintain the firing pin in withdrawn position, said spring being of a length to project beyond the plane of the body when secured beneath either shoulder, whereby to permit the spring to be directly engaged by the member protected by the alarm.

2. A burglar alarm including a body formed with a spring-receiving opening, a cartridge holder carried thereby, a pin holder projecting from the body, a firing pin slidably mounted for movement in the pin holder and from which said pin may be readily removed, a spring member including spaced arms, one of said arms being removably seated in said spring receiving opening and the other of said arms removably engaging the firing pin, and projections formed on the body beneath either of which the pin engaging arm of the spring may be engaged to tension said spring and hold the firing pin retracted, said spring when in position beneath either of said projections being disposed with the greater portion of its length to one side of and beyond the body.

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

JOHN G. PAYTON.

Witnesses:

CHAS. F. BIRCH, Sr.,
BERT DEFIBAUGH.