

(No Model.)

2 Sheets—Sheet 1.

G. B. FRY.  
CASHIER PROTECTOR.

No. 602,741.

Patented Apr. 19, 1898.

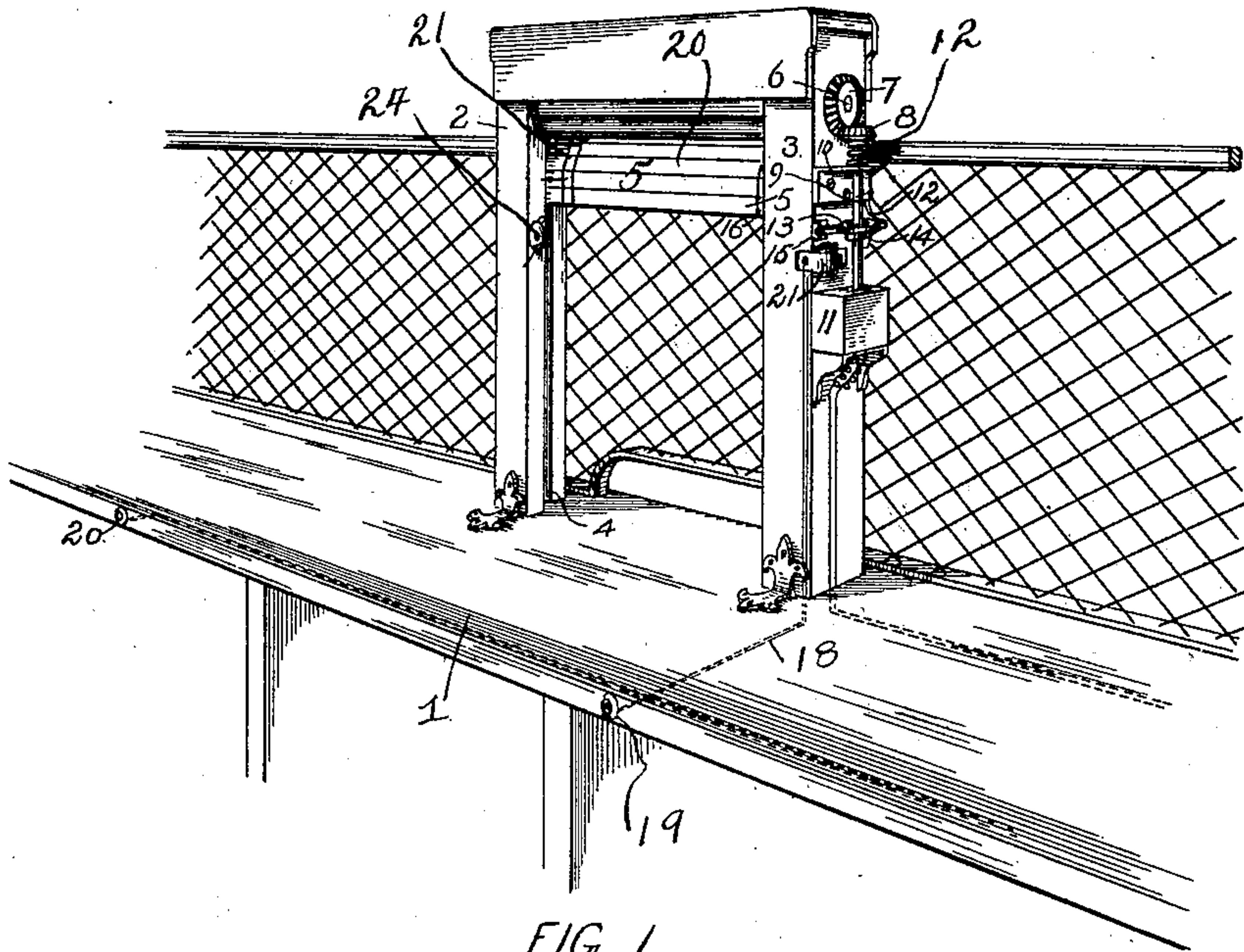


FIG. 1.

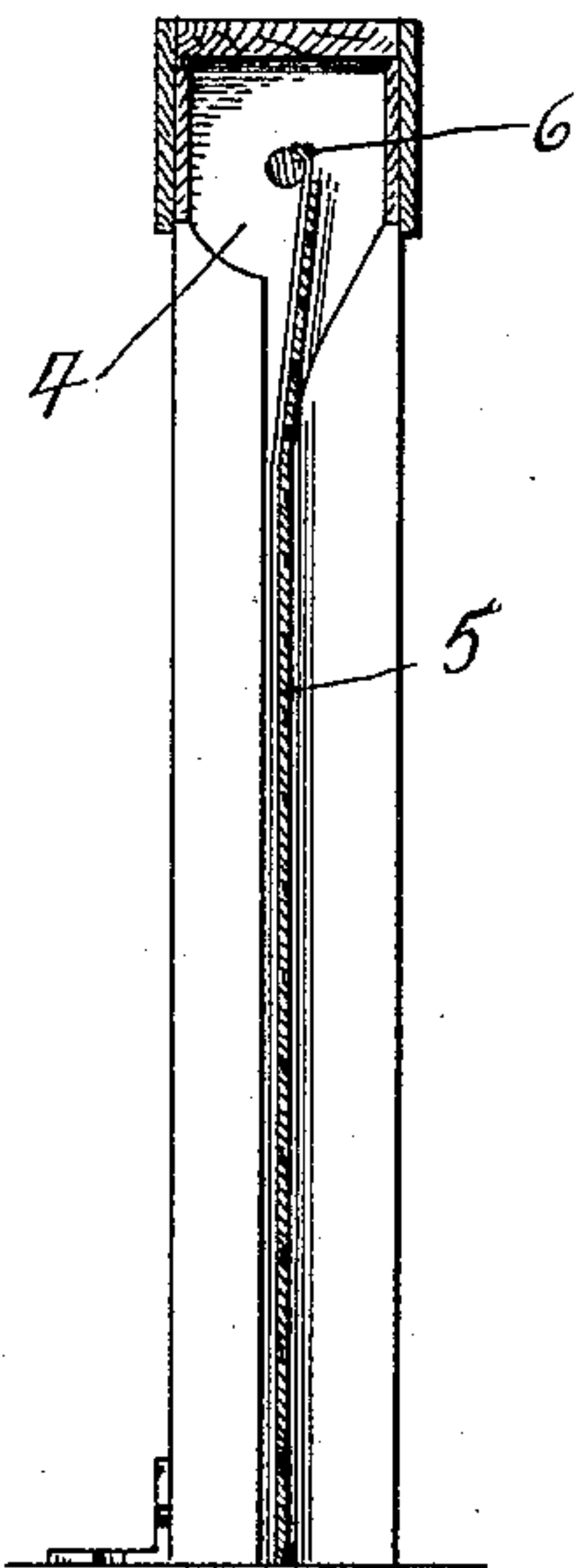


FIG. 2.

Witnesses

*L. W. Sillis.*  
*L. M. Graves.*

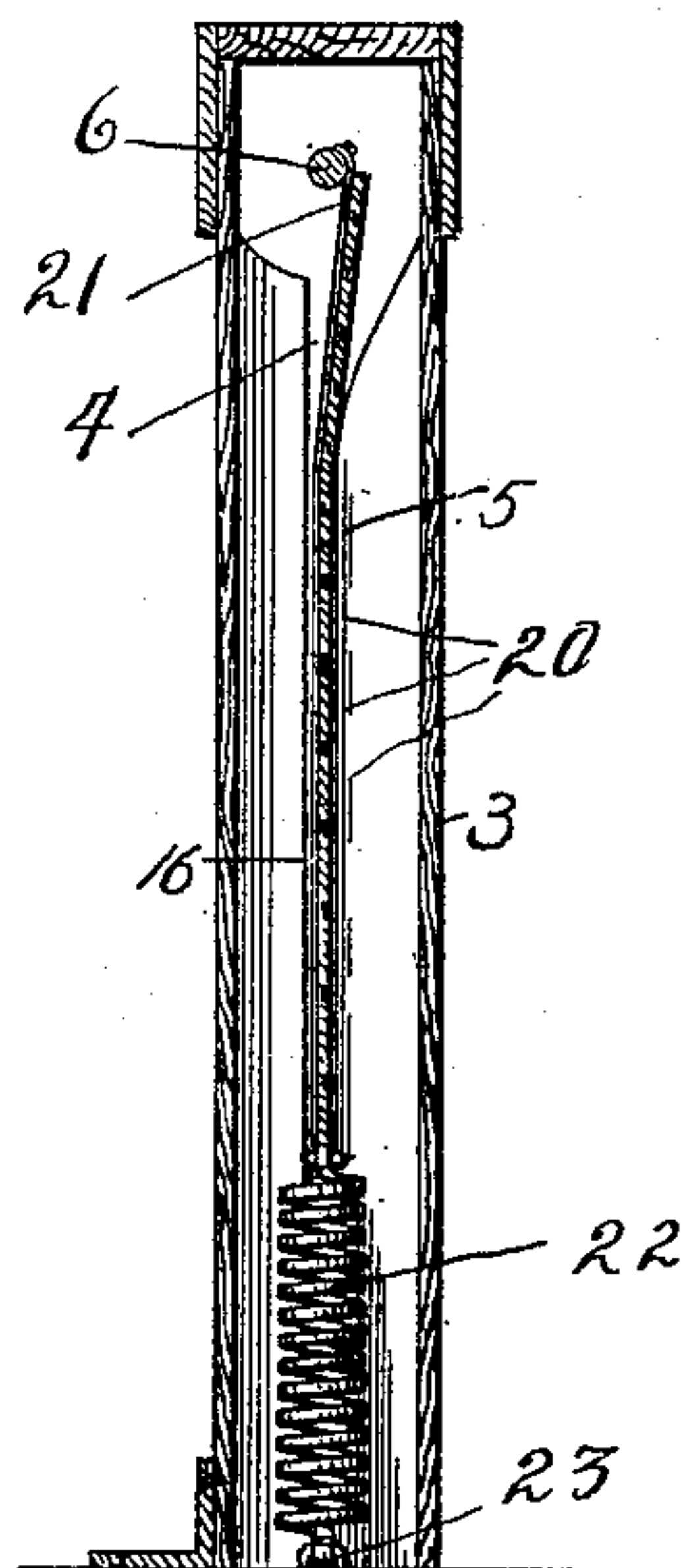


FIG. 3.

Inventor,

*George B. Fry,*  
by *John Wedduburn*  
Attorney

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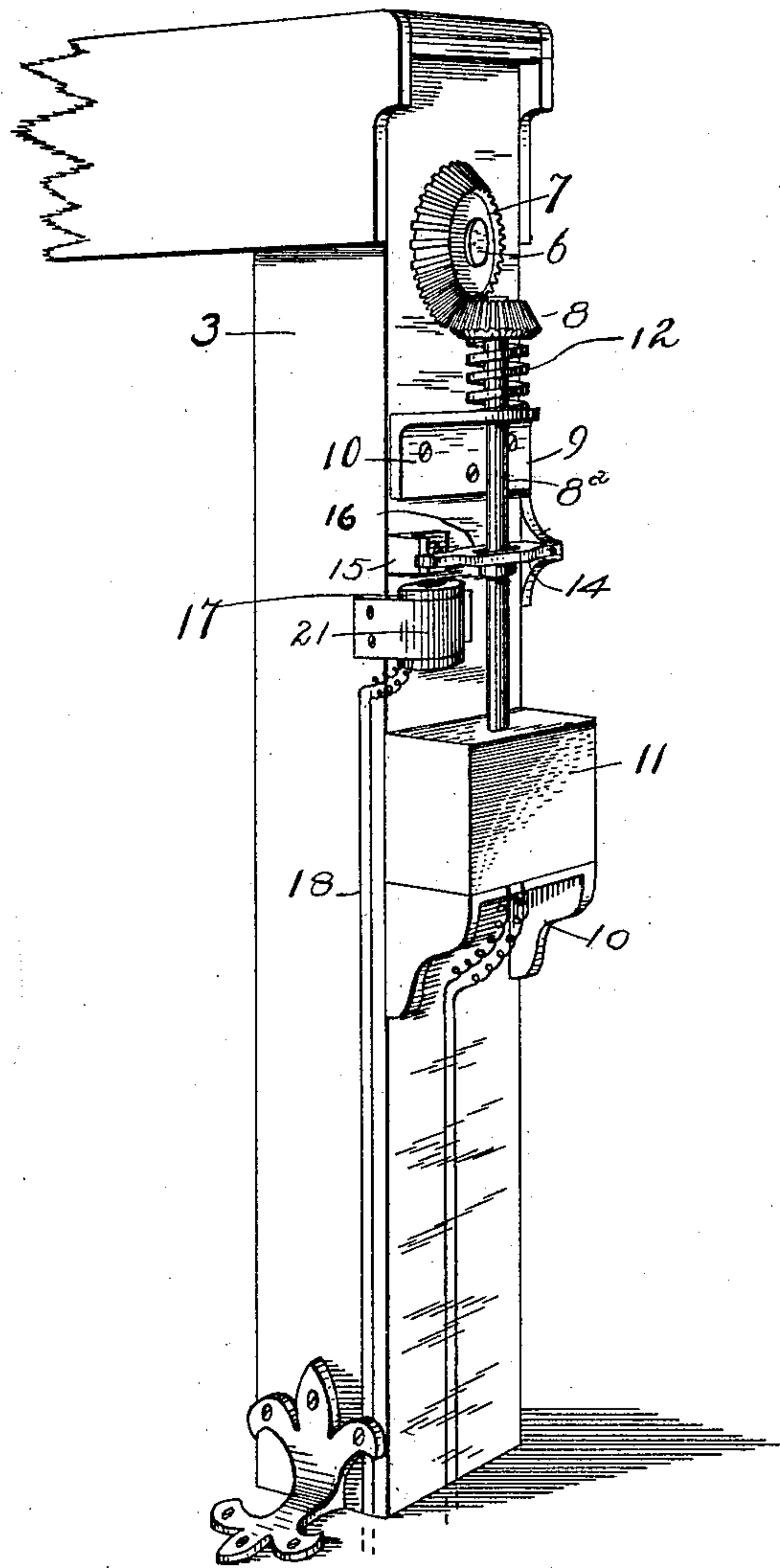


FIG. 4.

Witnesses

*A. M. Willis.*  
*L. M. Graves.*

Inventor,

*George B. Fry.*  
by *John Wedderburn*  
Attorney



# UNITED STATES PATENT OFFICE.

GEORGE B. FRY, OF BYNUM, MONTANA.

## CASHIER-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 602,741, dated April 19, 1898.

Application filed July 8, 1896. Serial No. 598,481. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE B. FRY, a citizen of the United States, residing at Bynum, in the county of Teton and State of Montana, have invented certain new and useful Improvements in Cashier-Protectors; 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.

My invention relates to improvements in devices for protecting bank cashiers or tellers from robbers and highwaymen; and the same consists in the novel constructions and combinations of parts and arrangements of instrumentalities, as will be hereinafter more fully described and claimed.

In the drawings forming a part of this specification, Figure 1 represents a perspective view of a portion of a bank-counter, showing my improved protector secured thereto, the same being taken from the inside of the bank. Fig. 2 is a vertical central section through the same. Fig. 3 is a similar section through one of the side bars of the frame, showing the spring for normally urging the screen downward. Fig. 4 is an enlarged perspective view showing one side of the frame in which the operative mechanism is mounted.

Like reference-numerals indicate like parts in the different views.

My improved protector is adapted to be secured to the counter 1 of the bank, behind the screen thereof. The frame is made up of a pair of side bars 2 3, whose inner edges are recessed, as shown at 4. Within the recesses 4 is mounted to slide a protecting-screen 5, secured at its upper end to a shaft 6, mounted transversely of the frame and formed with a beveled cog-wheel 7 upon its outer end, with which meshes a pinion 8 upon the upper end of a vertical shaft 9, mounted to turn in suitable brackets 10 upon the side bars 3. The lower end of the shaft 9 is connected with a suitable electric motor mounted in a motor-casing 11, as clearly shown. The bracket 10, through which the shaft 9 projects, serves as a guide for said shaft and also as a stop for engaging the lower end of a coiled spring 12, which surrounds the upper end of said shaft and tends to normally hold it in its raised position, with the pinion 8 thereon in engage-

ment with the cog-wheel 7 on the shaft 6. At a point intermediate of the ends of the shaft 9 is a collar or shoulder 13, adapted to be engaged by an operating-lever 14, fulcrumed at one end to a bracket 15 on the side bar 3, having an opening 16 therein, through which said shaft projects, and carrying upon its opposite end an armature which is acted upon by an electromagnet 17, as clearly shown. The circuit-wires 18, through which the current passes for energizing the electromagnet 17, lead out to the edge of the counter 1, and at suitable points push-buttons 19 19 are provided by means of which said magnet may be energized and said lever 14 retracted from different parts of the building.

The screen 5, which is attached at its upper end to the shaft 6, is made up of a series of slats 20 20, said slats varying in width from the top to the bottom thereof from one-half inch to one inch. The same are rabbeted along their adjacent edges, so that when the screen is in its closed position they will be prevented from lateral displacement. The said strips are each secured at their outer ends to a pair of straps 21 21, preferably formed of spring metal, and the screen is normally urged downward into its closed position by means of the engagement of the coiled spring 22, attached to the lower end of the frame, with a lug or projection 23 upon one of the strips 20. Secured to the inner edge of the side bars 3 is a gong 24, which is adapted to be operated, as shown, by the sudden closing of the screen. The said screen is wound up upon the shaft 6 by the turning of the shaft 9 through the actuation of the electromotor, to which it is connected, the movement thereof being transmitted through the pinion 8 and the cog-wheel 7, heretofore described. When it is desired to release the screen and permit the same to fall, one of the push-buttons 19 is pressed, closing the circuit through the electromagnet 17, energizing the said magnet and attracting to it the armature on the free end of the lever 14. This causes a depression of said lever, which, through its engagement with the shoulder or collar 13, draws downwardly the shaft 9 against the action of the spring 12, disconnecting the pinion 8 from the beveled gear-wheel 7. The shaft 6 is then free to turn in



either direction, and the screen 5 falls by gravity, thereby closing the opening in the cashier's window.

The normal position of the screen 5 during the business hours of the bank is raised and wound upon the shaft 6. Upon the approach of a robber it is merely necessary in order to close the screen to depress one of the push-buttons 19, which, through the mechanism heretofore described, releases the pinion 8 and the gear-wheel 7, permitting the said screen to fall suddenly by gravity. At the same time that the screen is closed an alarm is given through the gong 24.

While I have described my invention as being especially adapted for use as a protector for bank cashiers and tellers, it is obvious that the same is adapted for many other uses—as, for example, a storm window or door which can be folded up out of the way during fair weather and released during stormy weather.

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

1. The combination with the side bars of a suitable frame, of a shaft mounted to rotate therein, a screen secured to said shaft, a spring for normally urging said screen downward, a beveled wheel on said shaft, a slidingly-mounted shaft carrying a pinion upon its upper end in mesh with said gear-wheel, a spring for normally holding said pinion and gear-wheel in contact one with the other, and means for depressing said slidingly-mounted shaft, substantially as and for the purpose described.

2. The combination with the side bars of a suitable frame, of a shaft mounted to rotate therein, a screen secured to said shaft, a spring for normally urging said screen downward, a beveled gear-wheel upon the outer end of said shaft, a vertically-disposed, slidingly and rotatably mounted shaft carrying a pinion upon its upper end adapted to mesh with said

gear-wheel, a spring for normally holding said vertical shaft in its raised position, and electromagnetic means for depressing said vertical shaft, substantially as and for the purpose described.

3. The combination with the side bars of a suitable frame, of a shaft mounted to rotate therein, a screen secured to said shaft, a spring for normally urging said screen downward, a beveled gear-wheel upon the outer end of said shaft, a vertically-disposed, slidingly and rotatably mounted shaft carrying a pinion upon its upper end adapted to mesh with said gear-wheel, a spring for normally holding said vertical shaft in its raised position, a lever fulcrumed in said frame and adapted to engage a stop on said vertical shaft, an electromagnet, and an armature mounted upon the free end of said lever, substantially as and for the purpose described.

4. The combination with the side bars of a suitable frame, of a shaft mounted to rotate therein, a screen secured to said shaft, a spring for normally urging said screen downward, a beveled gear-wheel upon the outer end of said shaft, a vertically-disposed, slidingly and rotatably mounted shaft carrying a pinion upon its upper end adapted to mesh with said gear-wheel, a spring for normally holding said vertical shaft in its raised position, a shoulder on said vertical shaft, a lever fulcrumed in the frame adapted to engage said shoulder, an electromagnet, an armature therefor attached to the free end of said lever, circuit-wires, and electric push-buttons located at different points therein, substantially as and for the purpose described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

GEORGE B. FRY.

Witnesses:

CHAS. G. MONKMAN,  
E. D. STONEHOUSE.