(No Model.)

C. STOCKER, Jr.
ELEVATOR GATE.

No. 517,496. Patented Apr. 3, 1894.

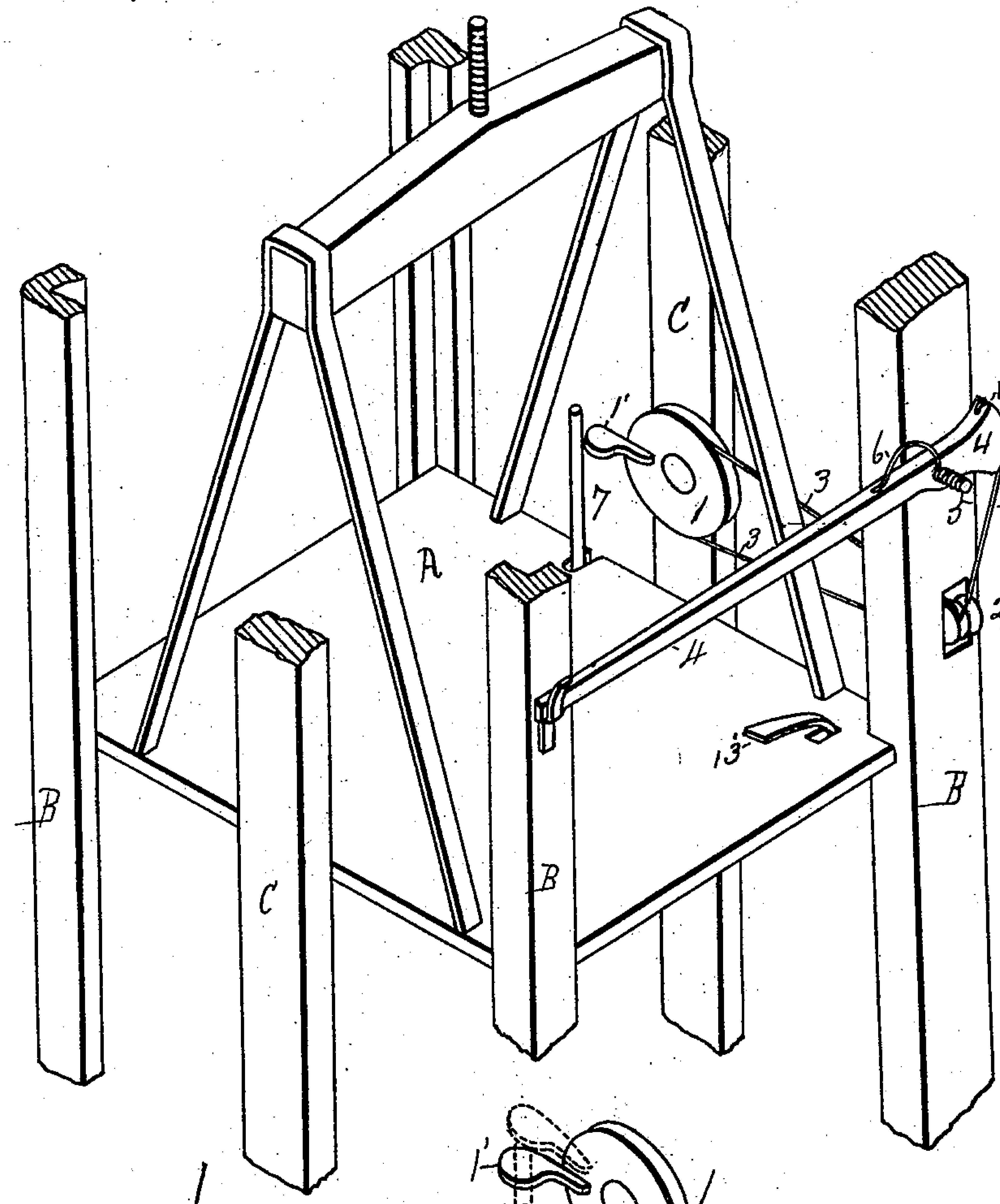

Fig. 1.

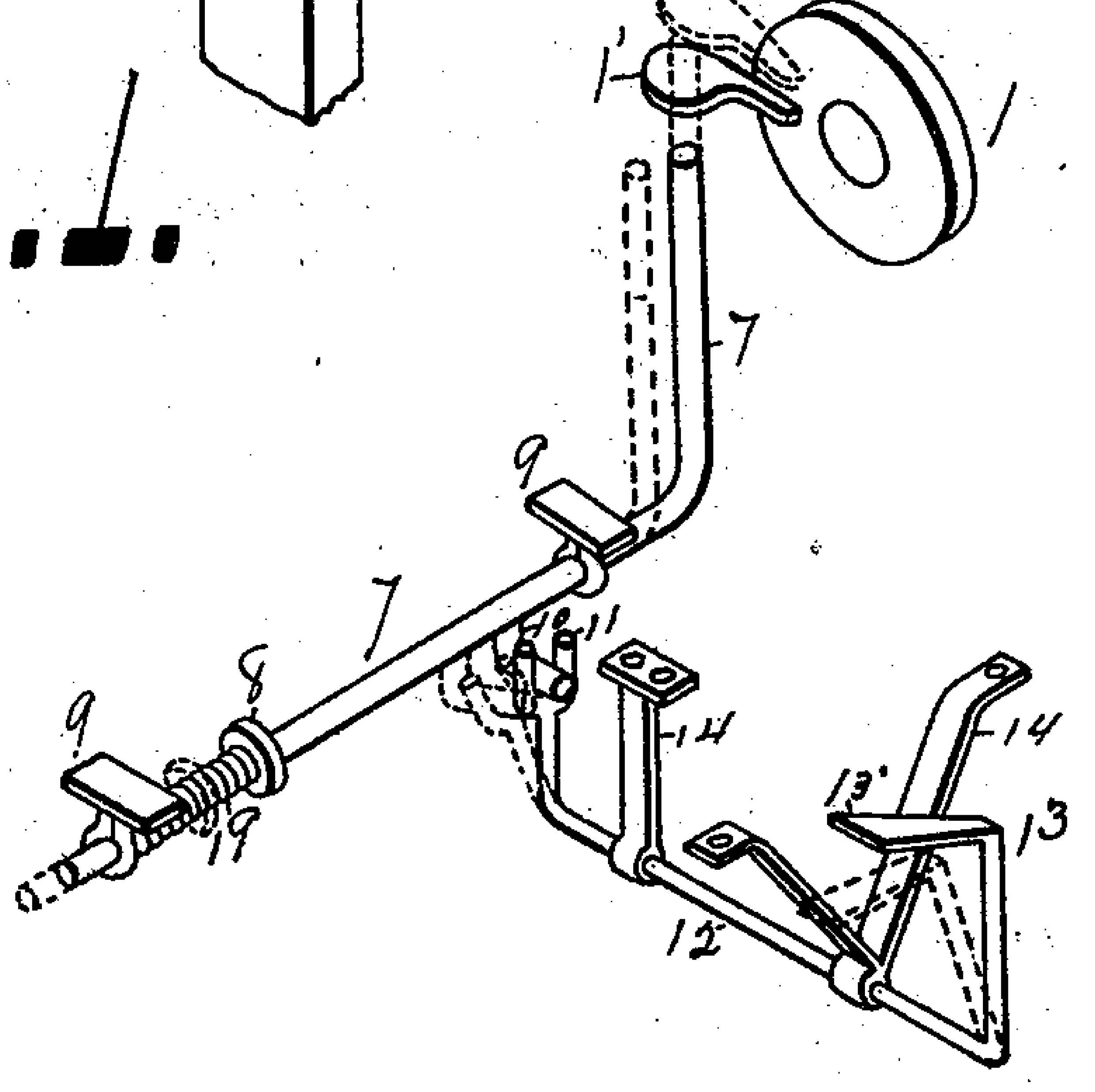

Fig. 2.

WITNESSES

J. F. O'Keefe

Fannie Robbins

INVENTOR

Charles Stocker Jr.

By J. A. H. Guaithmey(?)

his atty

THE NATIONAL LITHOGRAPHING COMPANY.
WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES STOCKER, JR., OF SAGINAW, MICHIGAN.

ELEVATOR-GATE.

SPECIFICATION forming part of Letters Patent No. 517,496, dated April 3, 1894.

Application filed July 12, 1893. Serial No. 480,246. (No model.)

To all whom it may concern:

Be it known that I, CHARLES STOCKER, Jr., a citizen of the United States, residing at Saginaw, in the county of Saginaw and State of Michigan, have invented certain new and useful Improvements in Elevator-Gates; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention is a means for constructing and operating a gate for elevator ways, and consists in the special mechanism shown and claimed.

Figure 1 is a perspective of the elevator gate and mechanism. Fig. 2 is a perspective of the operating mechanism.

A is the elevator cage, B, B, elevator guide posts, and C middle posts.

1 is a sheave secured on middle post C at the side of the elevator way and is provided with a crank 1′ extending from its outer circumference. 2 is a small sheave journaled at the side of the guide post B, or in a slot in said post as shown in the drawings. Running over these pulleys 1 and 2 is a belt 3, and a strap 3′ connected to the belt 3 is connected to the short arm of the gate 4 at 4′.

4 is the elevator gate pivoted by the bolt 5 to the post B. The gate may be of any design applicable to be operated as described hereinafter. Coiled around the bolt 5 outside of the gate arm, is a strong spring 6, one end secured to the bolt 5, the other to the long arm of the gate 4.

It is obvious that turning the pulley 1 either way will raise the gate 4, and that it will be closed by the spring 6. Fig. 2 illustrates the mechanism for turning this pulley 1, viz: 7 is a rod secured to the base of the elevator cage A, having one end bent at right angles and extending upward at the side of the elevator and at such a point that it will engage the crank 1′ of the pulley 1 as the elevator is moved up, the corner of the rod engaging the crank as the elevator moves downward from above the pulley. In order that the gate may not be opened except at the will of the elevator operator, I provide the following mechanism for tripping. The rod 7 is provided with a laterally extending lug 10, and a collar 8, secured to the rod 7, between the brackets 9, 9, loosely holding the rod to the base. Between one of the brackets 9 and the collar 8 is a coiled spring 19.

12 is a lever secured to the under side of the elevator A by brackets 14, 14, and provided with a vertical arm 13 extending through the base of the elevator cage, and provided with a foot lever 13′. The other end of the lever 12 is also bent vertical, passing up at the side of the lug 10 of the rod 7. Pressing down the foot lever 13′ turns the rod 12 and presses the forked end 11 against the lug 10, forcing the rod 7 backward, and depressing the spring 19. In this position the rod 7 will not engage the pulley crank 1′. Releasing the lever 13′ releases the spring 19 which throws the rod out to engaging position with the crank 1′.

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

In an elevator, the combination with the pivoted gate 4 of spring 6, pulleys 1 and 2, belts 3 and 3′, the crank 1′, and means for operating the crank 1′, consisting of rod 7 secured to the base of the elevator cage and adapted to engage the crank 1′, and provided with the laterally extending lug 10, and collar 8, foot levers 12 and 13′ engaging lug 10, and spring 19, as and for the purpose set forth.

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

CHARLES STOCKER, JR.

Witnesses:

A. H. SWARTHOUT,

J. F. O'KEEFE.