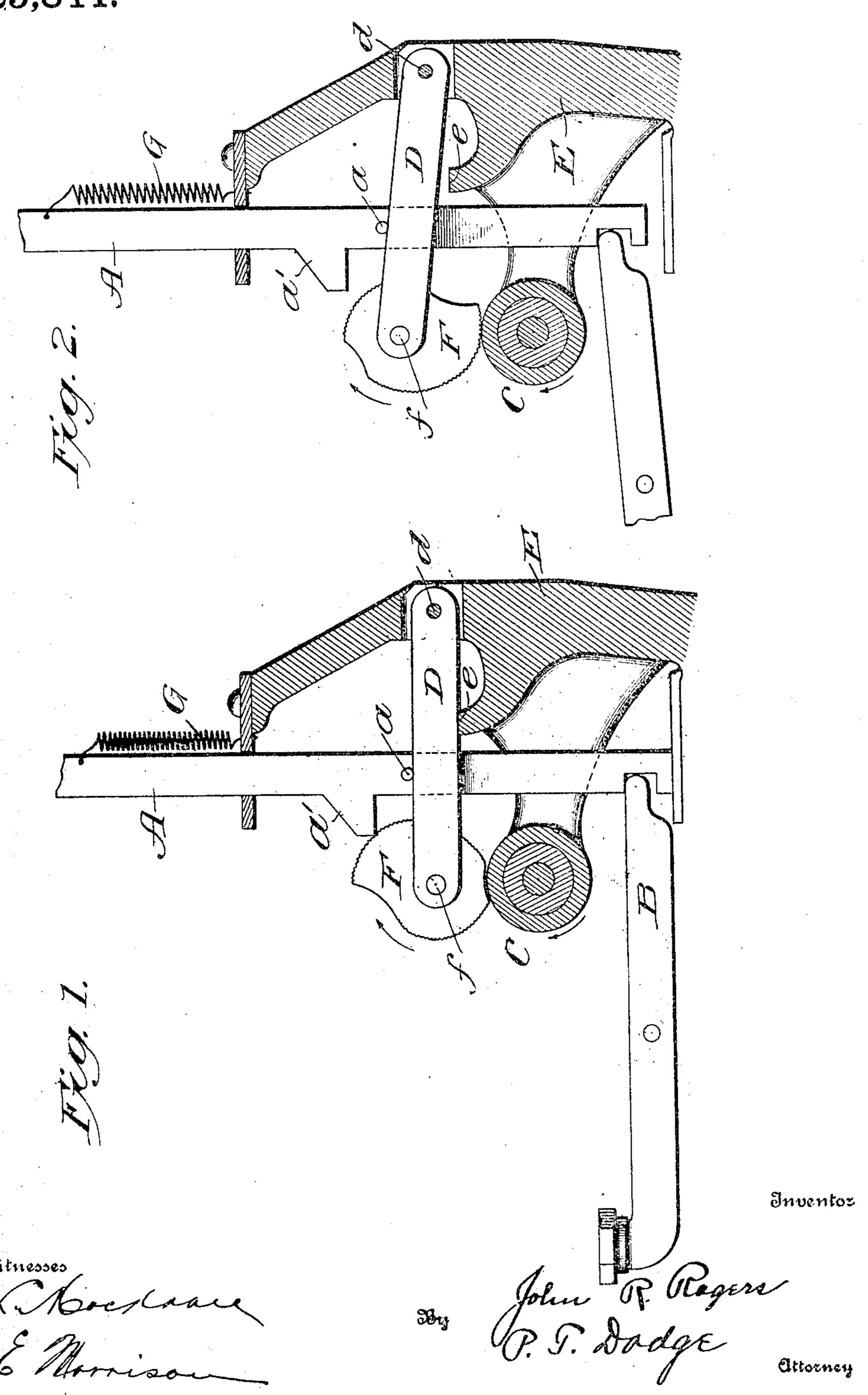
J. R. ROGERS.

KEYBOARD MECHANISM FOR LINE CASTING MACHINES, &c.

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UNITED STATES PATENT OFFICE.

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KEYBOARD MECHANISM FOR LINE-CASTING MACHINES, &c.

No. 925,844.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN R. ROGERS, of the borough of Brooklyn, county of Kings, and State of New York, have invented a new 5 and useful Improvement in Keyboard Mechanisms for Line-Casting Machines, &c., of which the following is a specification.

My invention has reference to the so-called keyboard mechanisms in which power driven 10 devices controlled by finger keys are used to actuate the escapements for releasing the matrices of line-casting machines, and for releasing type in composing machines, etc.

The object is to provide a very simple and

15 positive mechanism for the purpose.

In the drawings; Figure 1 is a vertical section through the mechanism in accordance with my invention, the parts in the position they occupy when at rest. Fig. 2 is a similar 20 view of the parts at an intermediate point in | the cam is arrested by the shoulder e on the 70 their operation.

Referring to the drawings, A represents a vertical rod the upper end of which will serve, directly or indirectly, to actuate the escape-

25 ment.

B is a finger key pivoted at b to engage the rod A for the purpose of giving the same an initial elevation.

C is a horizontal, continuously rotating 30 roll, preferably covered with rubber or similar material.

D is a yoke or bar pivoted to the main frame E at d, so that its opposite end may rise and fall.

F is a vertical cam or eccentric, connected by a horizontal pivot to the forward end of

the bar or yoke D.

The yoke D passes by the side of, or straddles the rod A, and bears beneath the stud, a, 40 thereon, so that when the yoke is lifted it will raise the bar against the resistance of a depressing spring, G, which connects the bar with the frame. The bar or reed A is provided with a shoulder, a', overlying the cam | which the case lifts the slide. 45 F, which cam is preferably toothed in the

When the parts are at rest they stand in the position shown in Fig. 1, with the shoul-50 side of the cam, so as to prevent its rotation. I arrest the rotation of the cam,

At this time, the yoke D rests on a solid support, e, on the frame, so that it is prevented from falling, and caused to sustain the cam Fout of contact with the roll C. When the finger-key is actuated so as to slightly lift the 55 bar A, the shoulder a' disengages from the cam F, which turns downward by gravity until it bears upon, and engages the roll C. The rotation of the roll causes a corresponding votation of cam, which turns on a pivot, 60 f. The eccentricity of the cam causes it to lift the free end of the yoke D, which in turn . lifts the bar or reed A until the outermost The cam passes over the surface of The coll, whereupon the cam, continuing its 65 roled on permits the yoke and the reed to descent until they assume their original position. The rotation of the cam is arrested by the shoulder a', and the descent of main frame, so that the cam is out of conthat with the driving roll.

Having described my invention, what I

claim is:

1. In combination, the vertical slide, the 75 lever or yoke for lifting same, the cam pivoted to the yoke, the constantly rotating roll to actuate the cam, means for imparting an initial upward movement to the slide, and means controlled by the slide to arrest the 80 rotation of the cum.

2. The combination of the vertical slide, the lifting lever P extending past the slide, the fixed pivot at one and and the rotary cam at the opposite end, the continuously 85 driven roll beneath the cam, and a finger lever for impurting the initial upward move-

ment to the side.

3. In a mechanism of the class described; in combination with the continuously driven 90 roll, a cana mounted to ride upon the roll, a vertical slide having a stop shoulder to arrest dhe retation of the cain, and means through

4. The combination of the lever or yoke 95 periphery as shown. D, having a limited vertical motion, the cam carried thereby, means to actuate the cam, and the vertical slide arranged to be lifted der a' resting against the outer and heavier by the yoke and provided with means to

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5. In combination, the vertical slide provided with a stop shoulder, the spring to depress the slide, the key lever connected to the slide, the yoke, the cam to lift the yoke, and the roll for turning the cam.

6. In a mechanism of the class described, the vertically movable slide, the cam and means through which the cam effects the lifting of the slide, the latter provided with

means to arrest the rotation of the cam sub- 10 stantially as shown.

In testimony whereof I hereunto set my hand this fifteenth day of January, 1909, in the presence of two attesting witnesses.

JOHN R. ROGERS.

Witnesses:

ROBERT G. CLARK, Lucy E. Smith.