

(No Model.)

R. A. COWELL.

CAR PLATFORM.

No. 267,330.

Patented Nov. 14, 1882.

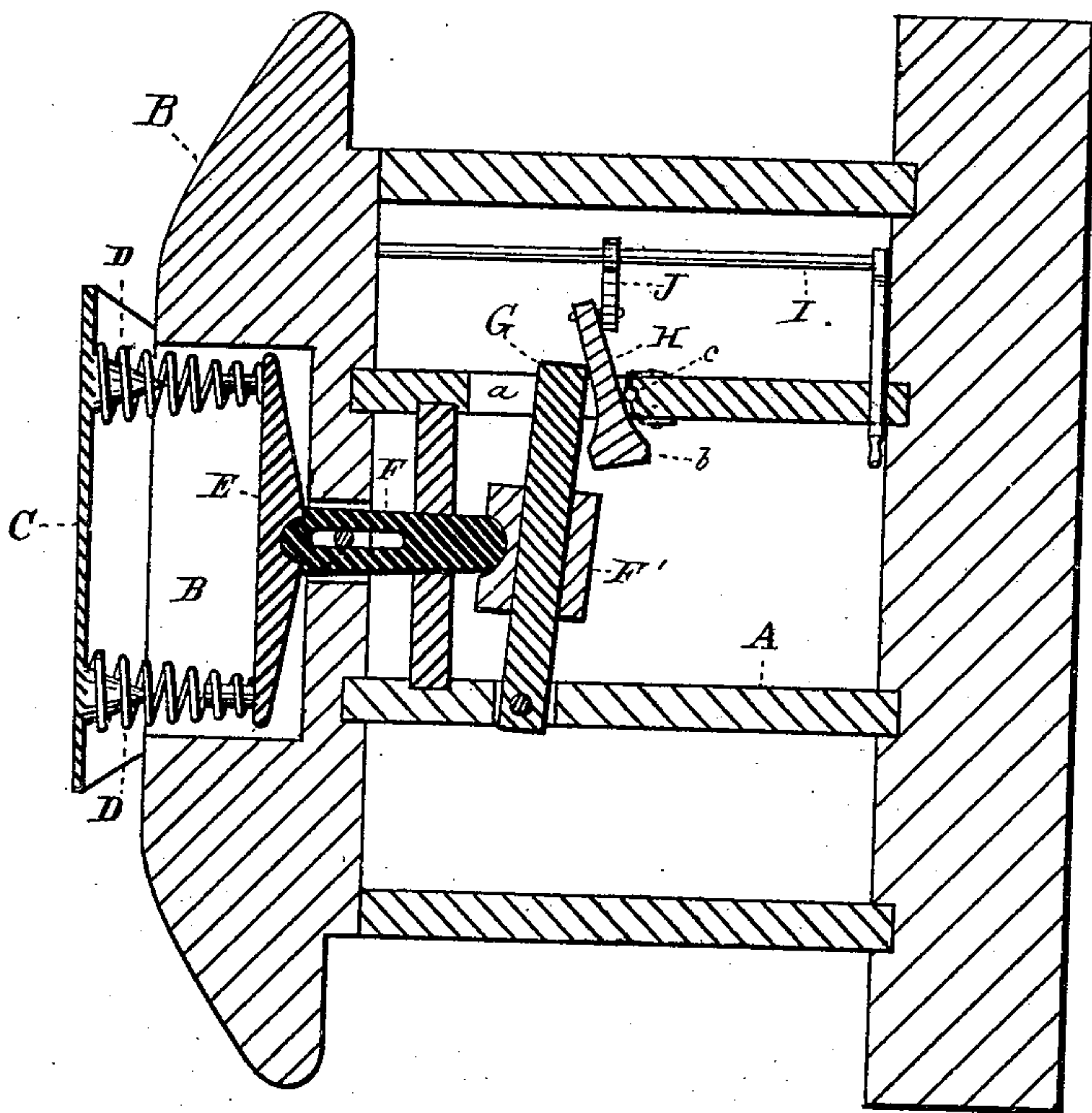


Fig. 1.

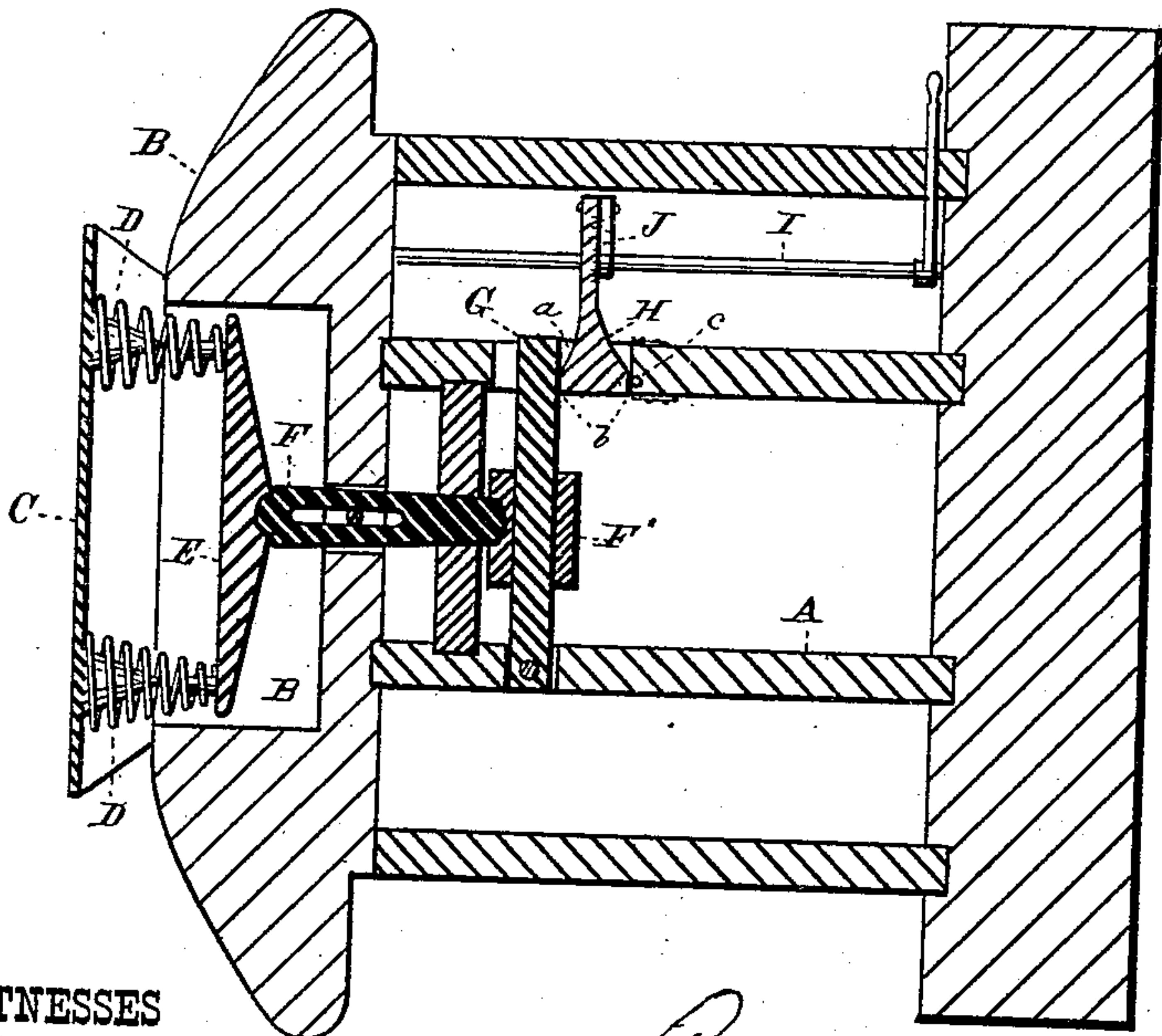


Fig. 2.

WITNESSES

*W. Engel*  
*Geo. Cowell Jr.*

*Rensselaer A. Cowell* INVENTOR  
*By Leggett & Leggett.*

ATTORNEYS



# UNITED STATES PATENT OFFICE.

RENSSELAER A. COWELL, OF CLEVELAND, OHIO, ASSIGNOR TO THE COWELL  
PLATFORM AND COUPLING COMPANY, OF SAME PLACE.

## CAR-PLATFORM.

SPECIFICATION forming part of Letters Patent No. 267,330, dated November 14, 1882.

Application filed April 20, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, RENSSELAER A. COWELL, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Car-Platforms; 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 pertains to make and use the same.

My invention relates to car-platforms; and it consists in the peculiar construction of the same, as will be hereinafter fully set forth and claimed.

In the drawings, Figure 1 is a horizontal section taken through a car-platform embodying my invention, showing the position of the parts when the tension of the springs is relaxed. Fig. 2 is a horizontal section, showing the position of the parts when the springs are compressed.

This invention is an improvement over a patent granted to me August 24, 1880, No. 231,407, for "car-platforms," and as described in the specification of said patent.

A represents an end portion of the bed-frame of a car, being that portion directly under the passenger-platform. B is the end of said frame which abuts against the next adjoining car. The central forward portion of the part B is chambered, as shown at B'.

C is a supplemental or yielding platform, made preferably of metal. This is folded around the upper front and under surface of the portion B, as shown in the drawings of my hereinbefore-mentioned patent, and is loosely attached, being permitted longitudinal movement to the extent of the slot C', (which see in drawings of my hereinbefore-mentioned patent.)

The supplemental or yielding platform C is held in its outward extended position by the force of one, two, or more springs, D, which are located within the chamber B'. These springs are placed between teats or lugs formed upon the inside vertical portion of the supplemental platform C and rocking bar E. (See Figs. 1 and 2.) The bar E is connected or attached to an adjustable bar, F, in any suitable manner to permit of a vibratory, rocking, or oscillating motion to the bar E.

The rear end of the bar F is connected pivotally to a sleeve, F', which in turn slides on a pivoted bar, G. The free end of the bar G slides in a slot, a, formed in one of the beams of the platform-frame.

Placed between the rear end of the slot a and the rear side of the loose end of the pivoted bar G is a wedge-shaped piece, H, the wide end of said piece H not running to a point, but being squared off, and thus forming on each side of said end for a short distance a flat portion, b, which is parallel to the side of the pivoted bar G, and also to the end of the slot a. These flat sides b act as a lock for the piece H when it is in the position shown in Fig. 2.

To prevent the strain and wear of the piece H coming directly on the face of the rear end of the slot a, I provide a bolt, c, which passes through the beam vertically.

The wedge-shaped piece H may be operated in any suitable manner, one manner being shown in the drawings, which consists of a shaft, I, having attached thereto an arm, J, which in turn is pivotally connected to the piece H in such a manner that as the shaft I is given a partial rotation in one direction it acts to draw the piece H in place, as shown in Fig. 2, and when revolved in the opposite direction it will act to force the piece H out of place, as shown in Fig. 1.

It will be seen that the drawing in (see Fig. 2) or forcing out (see Fig. 1) of the wedge-piece H acts to increase or diminish the tension of the spring or springs D.

The operation of my device being the same as that described in my former patent hereinbefore mentioned, with the exception of the device for increasing or diminishing the tension of the springs D, I will not herein describe it, my present invention relating only to the mechanism for increasing or diminishing the tension of the said spring or springs D.

What I claim is—

1. The combination, with a yielding platform, C, and an adjusting-bar, F, of a pivoted bar, G, and the wedge-shaped piece H, for operating the same, substantially as set forth.

2. The combination, with a yielding platform, C, adjusting-bar F, and pivoted bar G, of the wedge-shaped piece H, provided with flat por-

tions *b*, substantially as and for the purpose shown and described.

3. The combination, with a yielding platform provided with an adjusting-bar, of a wedge  
5 and suitable mechanism for operating the same, whereby the tension of the spring is adjusted and controlled, substantially as and for the purpose shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses. 10

RENSSELAER A. COWELL.

Witnesses:

JNO. CROWELL, Jr.,  
CHAS. A. FRYE.