

(No Model.)

2 Sheets—Sheet 1.

J. G. NOYES.  
TELEGRAPH REGISTER.

No. 375,766.

Patented Jan. 3, 1888.

Fig. 2.

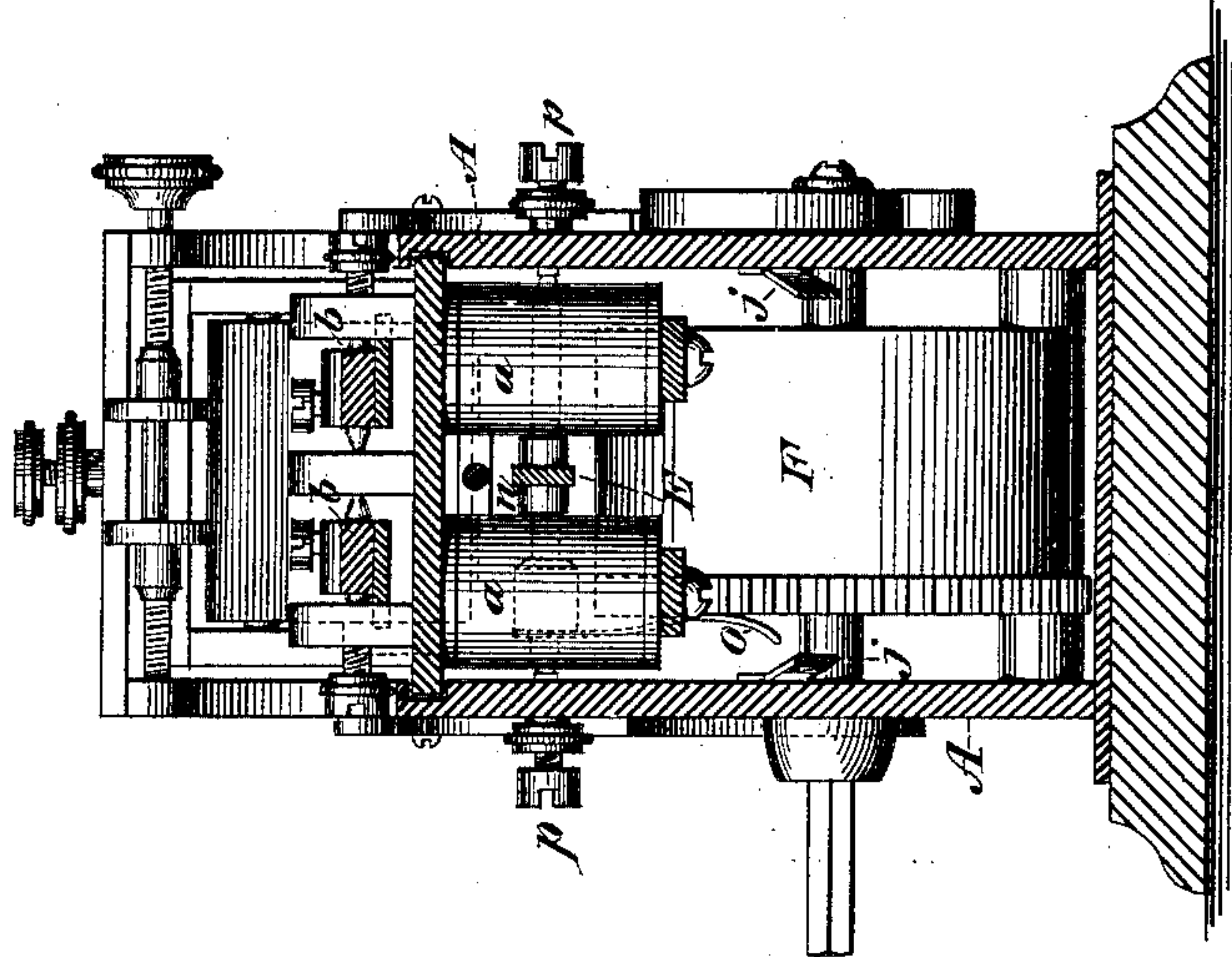
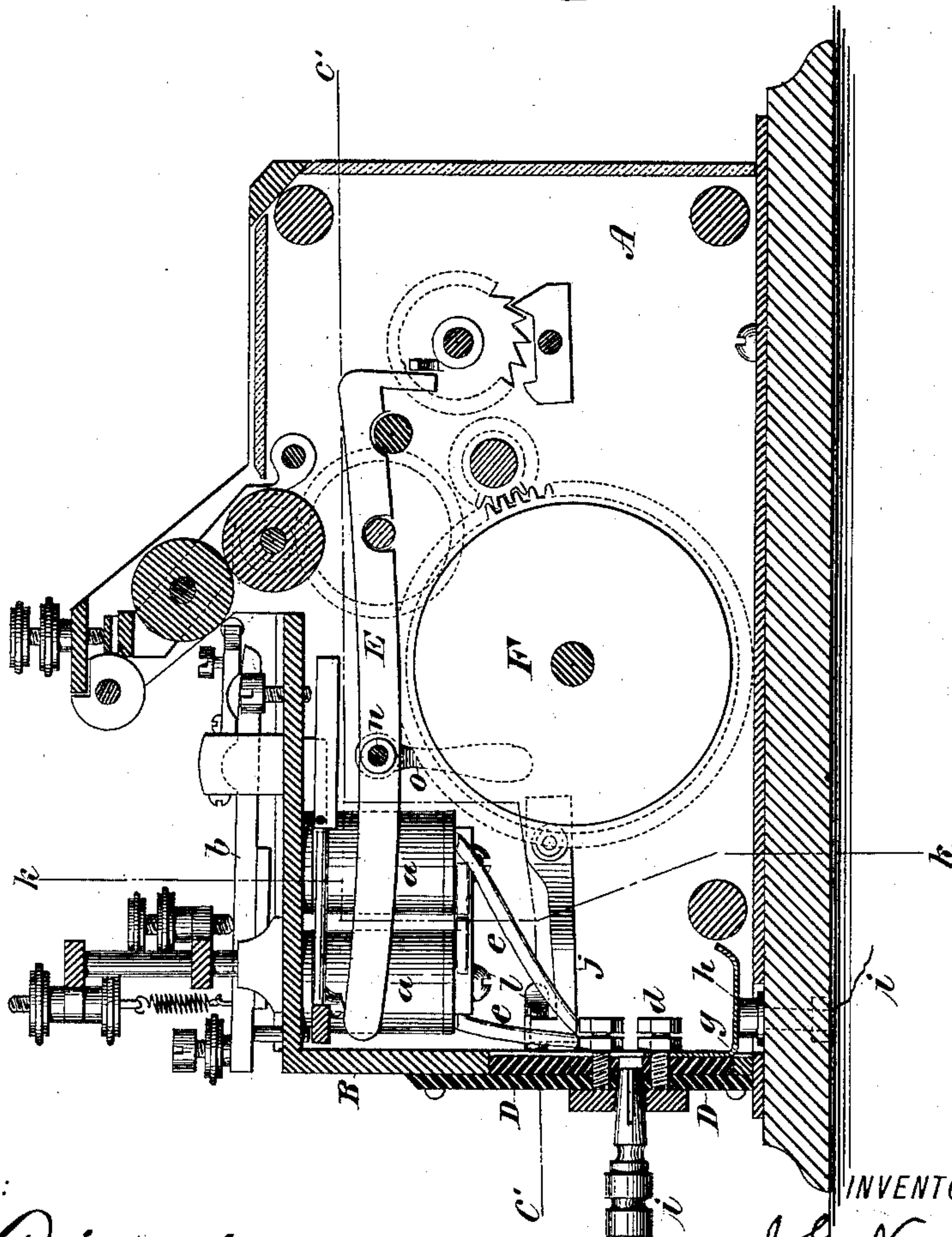


Fig. 1.



WITNESSES:

*Gustave Reitenich*  
*T. F. Bourne.*

INVENTOR

*J. G. Noyes*  
BY *Briesen & Steele*

ATTORNEYS









continued detachment from the binding-posts is overcome. The slide B is held in position in the casing by means of spring-catches *j j*, secured on the inner side of the casing, which engage hooks *l l* on the slide B. The spring-catches *j j* are L-shaped, as shown in Fig. 1, and their free ends are a short distance from the inner wall of the casing. Upon their free ends are secured studs *m m*, which project through the sides of the casing. The ends of the hooks *l l* are preferably beveled, as shown. When the slide is inserted in the case, the hooks *l l* pass between the inner walls of the casing and the springs *j j*, pressing said springs slightly inward. When the notches in the hooks come opposite the vertical parts of the springs, said springs will snap outward and engage said hooks. When it is desired to remove the slide, the studs *m m* are first pressed inward, which carries the springs inward away from the hooks *l l*. The slide is then free to be withdrawn.

E is the trip-lever, adapted to release the clock-work at the proper time. The trip-lever E is mounted upon an arbor, *n*, which arbor also carries a spring, *o*, adapted to bear upon the main-spring drum F, as shown. The lever E and spring *o* are of usual construction. When the lever E has been moved by the electro-magnet to release the clock-work, the drum F, acting upon the spring *o*, moves said lever back to check the running of the works. By causing the spring *o* to bear upon the drum F with more or less pressure the time at which said lever shall check the running of the works can be regulated. Heretofore to adjust the pressure of said spring it was necessary to remove the slide and then move the spring along the arbor. I accomplish the adjustment of the spring from the outside of the casing and without removing the slide by the following means:

*p p* are two set-screws carried by the casing A, and they are adapted to project through the walls of the casing, as shown. The screws *p* have conical depressions in their inner ends and receive therein the pointed ends of the arbor *n*. These screws thus serve as a bearing for the arbor *n*.

When it is desired to adjust the spring *o* with reference to the drum F, it is only necessary to move said screws together in one direction toward either side, which will move the arbor *n*, and consequently the spring *o*, in the desired direction, causing the spring to bear with more or less pressure against the drum F. This manner of adjusting the spring *o* will be found convenient and much time can be saved.

The arbor *n* could be journaled in the screws *p* otherwise than shown, if desired; but I prefer the above mode.

Having now described my invention, what I claim is—

1. In a telegraph register, the electro-magnets *a* and binding-posts *d* in electrical connection, and L-shaped springs *g*, having upturned inner ends connected with the binding-posts *d*, all carried by and combined with the slide B, in combination with the binding-posts *h* in the base of the instrument for connection with a generator, the strips *g* being adapted to bear upon and slide over the posts *h*, substantially as herein shown and described.

2. In a telegraph-register, the combination, with the slide B, of the magnets *a a* and of the springs *g g*, arranged in pairs, each pair being electrically connected with the magnets, substantially as described.

3. In a telegraph-register, the casing A and springs *j j*, secured to the inner walls thereof, the springs *j* having studs *m*, in combination with the slide B and hooks *l l*, carried thereby, the springs *j j* acting inward and outward against the hooks *l l*, substantially as described.

4. In a telegraph-register, the combination of the casing A, trip-lever E, arbor *n*, spring *o*, and screws *p p*, carried by the casing, said screws acting as movable bearings for the arbor of the trip-lever and as means of adjusting the tension of said spring, substantially as described.

JOSEPH GILLET NOYES.

Witnesses:

T. T. BOURNE,

CHARLES G. M. THOMAS.