

(No Model.)

L. ROUILLION.
PHOTOGRAPHIC PRINTING FRAME.

No. 419,360.

Patented Jan. 14, 1890.

Fig. 1.

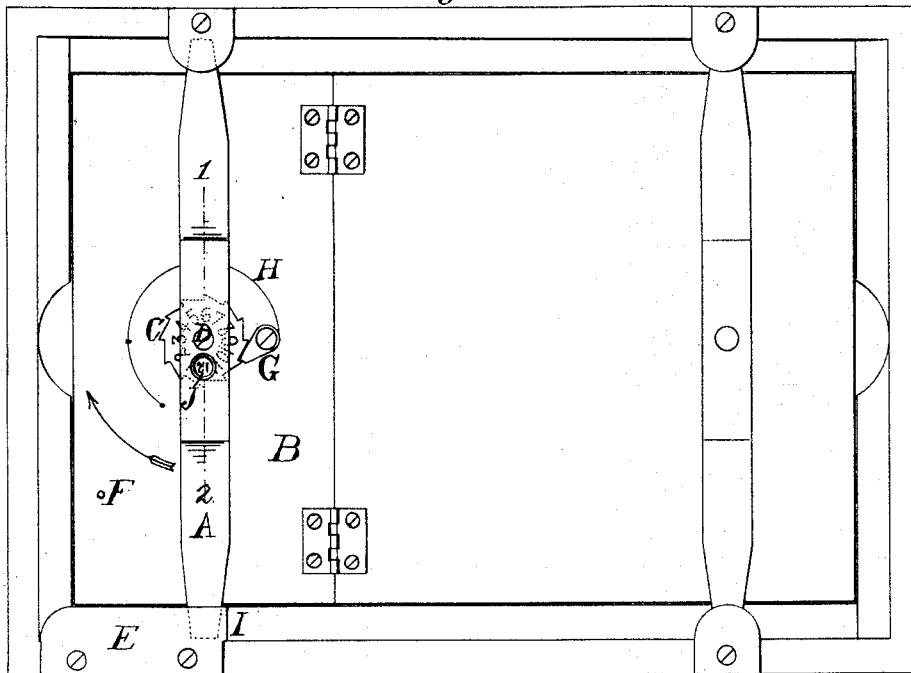
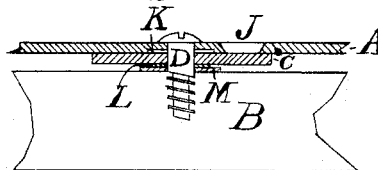


Fig. 2.



Witnesses.

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PHOTOGRAPHIC-PRINTING FRAME.

SPECIFICATION forming part of Letters Patent No. 419,360, dated January 14, 1890.

Application filed August 16, 1889. Serial No. 321,012. (No model.)

To all whom it may concern:

Be it known that I, LOUIS ROUILLION, a citizen of the United States, residing at Ithaca, in the county of Tompkins and State of New York, have invented a new and useful Automatic Register for Photographic-Printing Frames, of which the following is a specification.

My invention relates to an improvement in automatic registers for photographic-printing frames, the object of which is to automatically register the number of prints being made. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a top view, and Fig. 2 a vertical section through 1 2 in Fig. 1. Fig. 2 is drawn to a scale twice that of Fig. 1.

Similar letters and figures refer to similar parts in both views.

The spring-bar A, which clamps the shutter B, also presses upon the ratchet-wheel C, and by its friction upon said ratchet-wheel causes it to move with it when turned in the direction of the arrow. The arc of a circle, with center at D, which the spring-bar A describes when thus turned, is limited by the strip E and the peg F. These latter two are so related to each other and to the pawl G that when the spring-bar A, in being turned in the direction of the arrow, slips from beneath the strip E it will touch the peg F, and at the same time the pawl G will drop into the next tooth of the ratchet-wheel C. The pawl G is kept in place by the spring H. When the spring-bar A is turned back in the direction contrary to that of the arrow, the pawl G keeps the ratchet-wheel C stationary, and a lip turned down on the strip E at I serves to keep the spring-bar A from going beyond its first position. Stamped upon the upper surface of the ratchet-wheel C is a series of numbers concentric with said ratchet-wheel. In the spring-bar A is an opening J, having a beveled edge and so placed as to exhibit one, and but one, of the figures upon the ratchet-wheel C at a time. The spring-bar A is countersunk, as shown at K, and beneath the ratchet-wheel C is a washer L, resting upon a washer M. Now, supposing the register to exhibit the number 1, the print being finished, the frame

is opened by turning the spring-bars. In turning the spring-bar A the ratchet-wheel C is carried along with it by the friction between the two until the number 2 has come into the position recently held by number 1, and the pawl G falls into the next tooth of the ratchet-wheel C. Another print being put into the frame, the spring-bars are turned back to clamp the shutters, and in so doing the opening J is brought over the number 2, thereby showing that the second print is being printed. A similar process exhibits the number 3, and so on for the number of prints that it is desired to print.

I claim as my invention and desire to secure by Letters Patent—

1. In a photographic-printing frame, the combination of the back and the spring-bar A, pivoted upon the back and adapted to engage the sides of the frame, with a ratchet-wheel C, also pivoted upon the back and between the bar and back, substantially as described.

2. In a photographic-printing frame, the combination of the back and a spring-bar pivoted upon the back and adapted to engage the sides of the frame with a ratchet-wheel upon which is stamped a series of numbers concentric with said ratchet-wheel, also pivoted upon the back between the bar and back, with washers between the ratchet-wheel and back, substantially as described.

3. The combination, in a photographic-printing frame, of a back, a spring-bar being countersunk on its under side, hung upon a pivot on the back and adapted to engage the sides of the frame, a ratchet-wheel bearing stamped upon it a series of numbers concentric with itself and hung upon the same pivot as the bar and between the bar and back, with washers between the ratchet-wheel and back, a pawl with spring to engage said ratchet-wheel, a strip E, having a lip I, serving to hold in check the spring-bar A, and a hole through the spring-bar to exhibit in turn each of the series of numbers, all substantially as and for the purpose set forth.

LOUIS ROUILLION.

Witnesses:

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