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Patented Sept. 12, 1899.

H. W. MUNSEY.

HOLDING AND SPACING DEVICE FOR PHOTOGRAPHIC FILMS.

(Application filed Jan. 28, 1899.)

(No Model.)

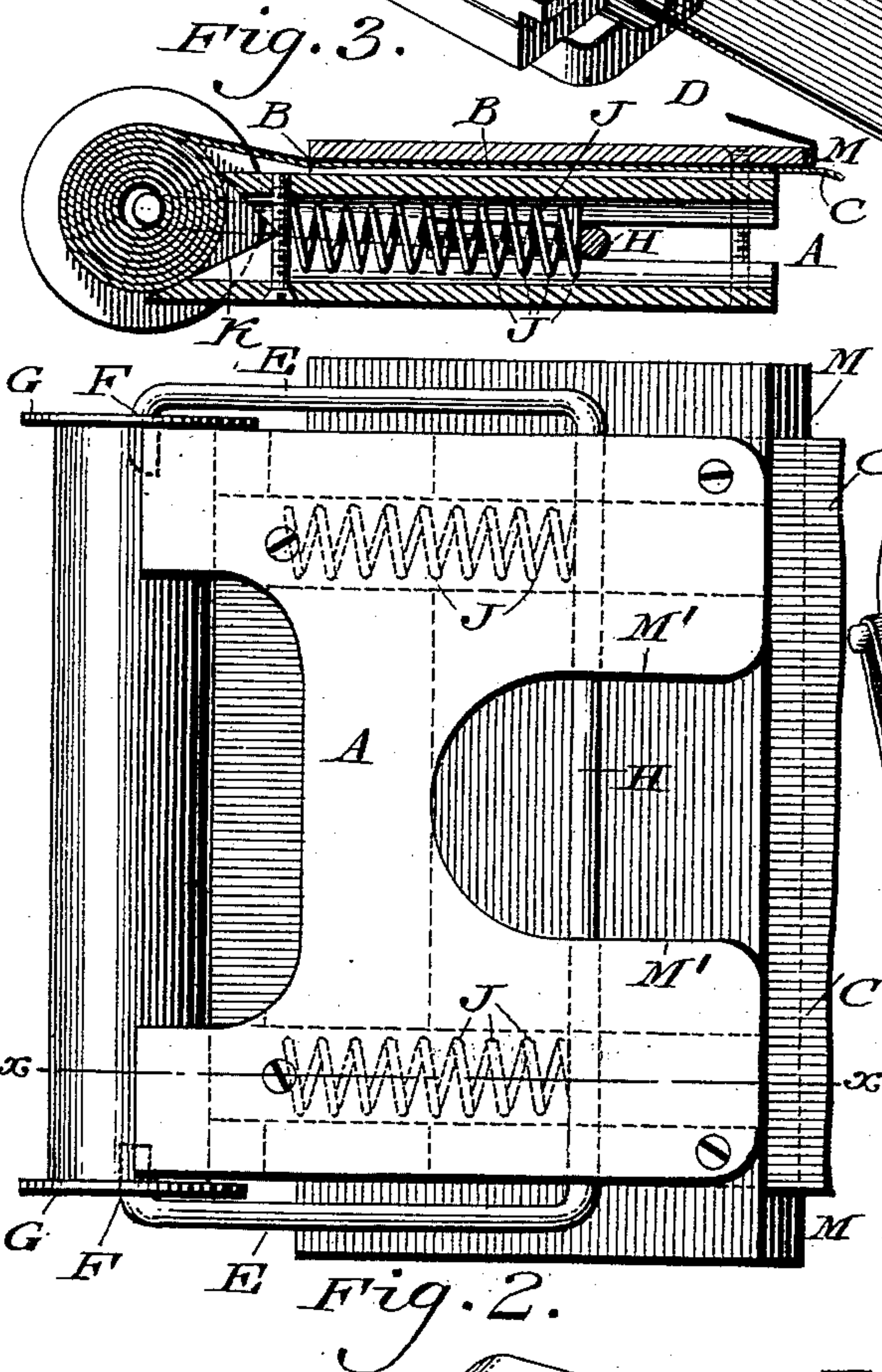
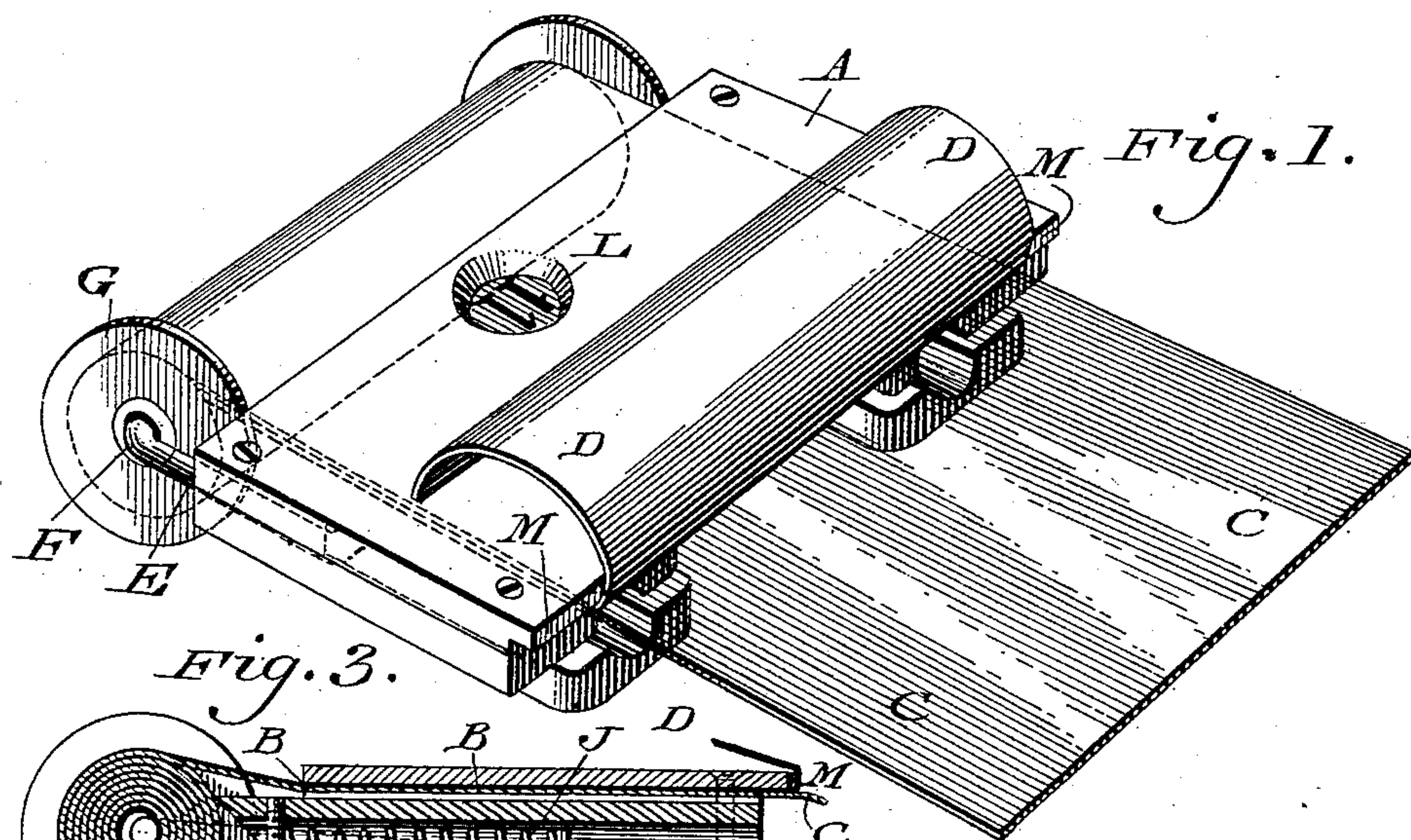


Fig. 5.

Witnesses

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HOLDING AND SPACING DEVICE FOR PHOTOGRAPHIC FILMS.

SPECIFICATION forming part of Letters Patent No. 632,736, dated September 12, 1899.

Application filed January 28, 1899. Serial No. 703,663. (No model.)

To all whom it may concern:

Be it known that I, HORACE W. MUNSEY, a citizen of the United States, residing at Chester, in the county of Delaware, State of Pennsylvania, have invented a new and useful Improvement in Holding and Spacing Devices for Photographic-Film Rolls, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a device for holding a photographic-film roll and spacing the film accurately preparatively to cutting or severing the same.

Figure 1 represents a perspective view of a holding and spacing device for a photographic-film roll embodying my invention. Fig. 2 represents a bottom plan view thereof. Fig. 3 represents a longitudinal section on line $x x$, Fig. 2. Figs. 4 and 5 represent perspective views of other forms of my invention.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a stock or head having within the same the channel B, which is open at both ends for the passage therethrough of the photographic film C and the protector D therefor, if the latter is employed.

E designates a frame formed of heavy wire or other suitable material having its ends interturned, as at F, producing journals, which enter the spool G, on which the film is rolled, whereby said spool may turn on said journals in the unwinding of the film therefrom. Bearing against the cross-piece H of the frame E are the springs J, which are located within the stock A and serve to hold the spool close to the latter, a portion of the sides of the stock being recessed, as at K, to permit the film-roll to enter the same, so that the heads or flanges of the spool overlap the adjacent portions of the sides of the stock, and thus steady the spool and prevent improper lateral movement or shifting thereof. The walls of the recesses K act as seats or contacts for the surface of the roll, which is pressed against said walls, so that improper unwinding of the latter is prevented.

In the upper wall of the stock is the opening L, through which the number of an ad-

vanced film to be severed or cut is presented, indicating that said film is properly spaced outside of the stock.

The operation is as follows: The film to be cut or severed is passed through the channel with the protector therefor and unrolled to the proper extent, when a number appears centrally at the opening L, said film then being outside of the stock. The protector D is then turned up on the top of the stock and the projecting film is cut along the edge M of the stock, said edge preferably projecting and acting as a gage, so that the cut is made true and uniform throughout its length. Another section of the film and corresponding length of the protector are then unrolled until the next number on the protector appears in the opening L, when said section is properly spaced outside of the stock ready to be cut or severed, as in the previous case. When the spool is to be removed, the frame is drawn or pushed back, so that the spool recedes from the stock, when the journals F may be withdrawn from the spool, the side pieces of the frame E being sufficiently elastic to yield when spread apart. A spool with a fresh film may now be applied to the frame, the journals readily springing into the opening or bore of said spool, when the frame under pressure of the springs J returns to its normal position, thus properly locating the spool, when the film and protector may be passed through the channel B and be operated in the manner as in the previous case. In order to conveniently operate said frame, the under side of the stock is recessed as at M', so that the cross-bar H of said frame is conveniently accessible to be engaged by the fingers.

In Fig. 4 I show elastic bands N, employed in lieu of the springs J, for obtaining the requisite pressure on the spool and film, and the stock is formed of separate sections P and Q, connected by the tongues and grooves R S, whereby they may be disconnected in order to locate the film and protector in the channel T existing between said sections, said channel being shown in dotted lines in said Fig. 4. In Fig. 5 I show another form of construction, in which the body of the device is formed of pieces of metal spread out to pro-

duce a chamber therein to receive the film-roll, said pieces being slotted, whereby the fingers may be inserted through the same to handle the roll, said pieces being connected
5 by a bent piece which causes them to be elastic and close on the film-roll spool, so as to impart proper pressure or tension thereto. In other respects said body or stock is provided with a cutting-gage edge and a spacing-
10 opening and has a roller on its lower edge to bear against the film to prevent bellying or buckling of the same between the roll and gage edge.

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

1. In a holding and spacing device for a film or web, the combination of a stock having a channel therethrough, a holder for the
20 film or web adjacent one end of the stock, and elastic means for maintaining the holder yieldingly in contact with the end of the stock.

2. In a holding and spacing device for a photographic-film roll, a stock having a chan-
25 nel therethrough, a spacing-opening therein, and a cutting edge at the discharge end of said channel, a film-roll holder at the inlet

end of said channel, bearings on the stock for said holder, and elastic means for pressing said film-roll firmly against said stock. 30

3. In a holding and spacing device for a photographic-film roll, a stock, a film-roll holder thereon, said stock having a longitudinally-extending channel therethrough, a spacing-opening therein, a recess at one end
35 of said channel and a cutting edge at the other end thereof, bearings on the stock for said holder, and elastic means for maintaining the holder yieldingly in said recess in contact with the stock, the heads of the holder
40 overlapping the side walls of said recess.

4. A stock, a sliding frame thereon, means on said frame for journaling a photographic-film roll thereon, and a spring bearing against said frame for retaining it in operative posi-
45 tion on said stock, said stock having a channel therein for guiding the film from the roll to the opposite end of the stock, said end constituting a cutting-gage.

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Witnesses:

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