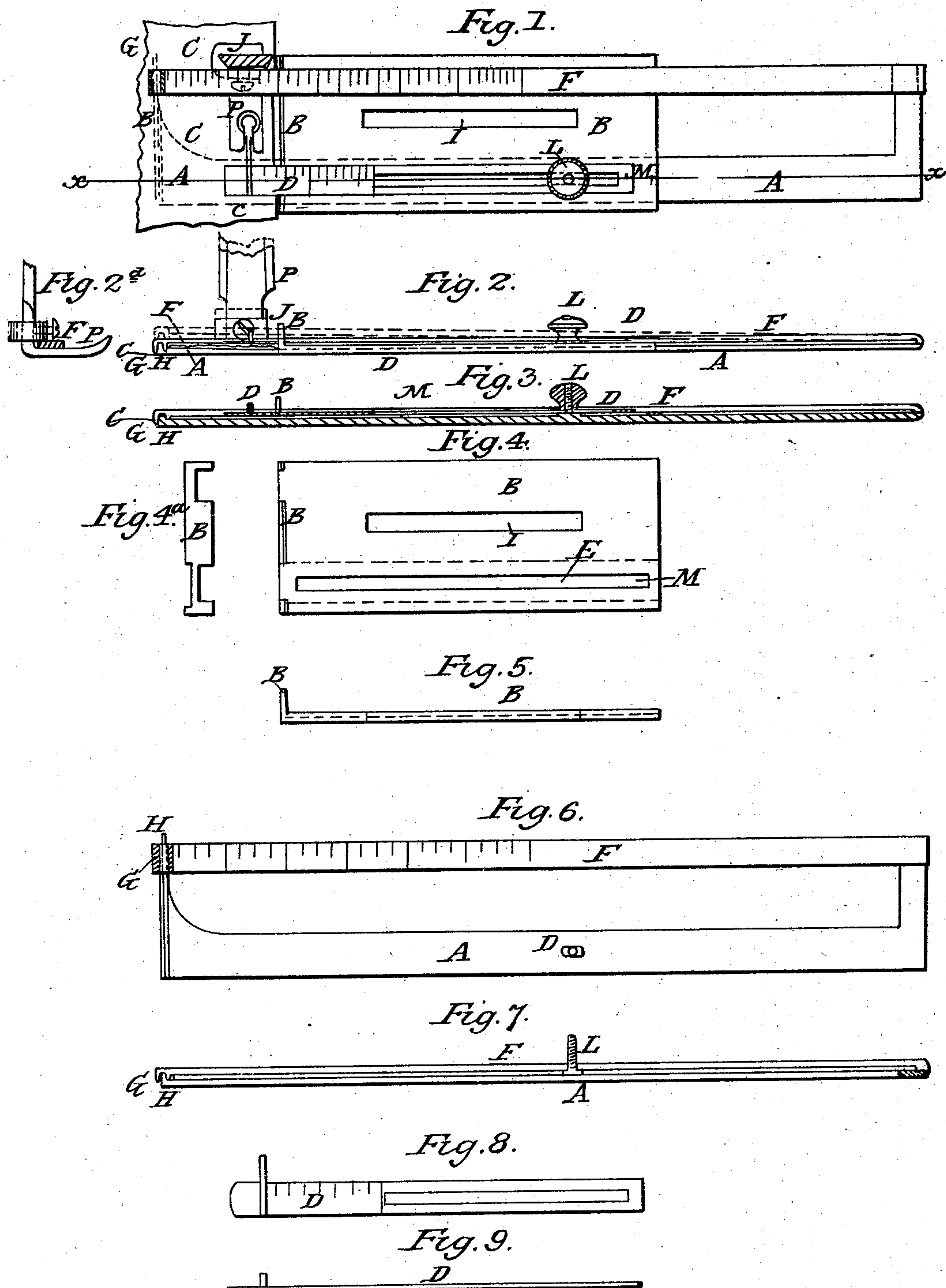


M. A. DUFFY.

Marking Gage for Sewing Machines.

No. 74,323.

Patented Feb. 11, 1868.



Witnesses:

J. J. Gordon.
Geo H Collins

Inventor:

Harry A Duffy

United States Patent Office.

MARY A. DUFFY, OF NEW YORK, N. Y.

Letters Patent No. 74,323, dated February 11, 1868.

IMPROVEMENT IN MARKING-GAUGE FOR SEWING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, MARY A. DUFFY, of the city, county, and State of New York, have invented a new and improved Tucking and Marking-Gauge; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, and the letters of reference marked thereon, in which the same letter represents the same thing in each figure.

Figure 1 is a top view of my improved gauge, with presser-foot and stop.

Figure 2, side view of the same.

Figure 2^a, side view of presser-foot and stop, with spring F in section.

Figure 3, section through *x x* of fig. 1.

Figure 4, top view of plate B.

Figure 4^a, end view of same.

Figure 5, side view of same.

Figure 6, top view of spring-marking lever and tucking-plate.

Figure 7, side view of same.

Figure 8, top view of tucking-gauge.

Figure 9, side view of same.

This invention is an improvement upon the sewing-machine gauge for which Letters Patent of the United States, No. 59,983, were issued to me, November 27, 1866, and the nature of the improvement may, perhaps, be best indicated by stating the difference in the method of operation of the two devices. In the former, the tuck was turned by tucking-plate A and creased down by the presser-foot of the machine. By the improved device the tuck is not turned at all, but its line is marked or creased without being first folded, and creased, not by the presser-foot, but by an independent spring-piece, operated by the presser-foot.

A represents the tucking-plate; B, the plate and gauge-holder; C, the cloth; D, the tucking-gauge; F, the spring-marking lever, attached to tucking-plate A; G, the groove therein; H, the lip of tucking-plate A; P, the presser-foot; J, the stop thereon; I, the slot by which plate-holder B is secured to the machine; L, the adjusting set-screw; M, the slot in plate-holder B, through which it operates.

The operation is as follows: Secure plate and gauge-holder B to the sewing-machine by the usual set-screw through slot I, having previously placed tucking-plate A beneath holder B, with its screw coming through and screw-head sliding in groove M, set in or out, as a wide or narrow space between the tucks is desired, and its marking-lever F coming above plate-holder B, and its groove resting on lip H; place tucking-gauge D over slot M, set the required width of a tuck from the inner end of holder B, and secure the pieces A and D in position by set-screw L, secure stop J to the presser-foot just above lever F. Fold the cloth the width of a tuck, and pass its folded edge over tucking-plate A and lip H, and under lever F and tucking-gauge D, and up to the inner edge of plate and gauge-holder B. Starting the machine, the line of sewing will be the lip of tucking-gauge D, and the tuck, the turned cloth that is left between that line and the inner edge of plate-holder B. As the cloth is fed along, presser-foot P lifts marking-lever F, and as presser-foot P falls, it and the spring of lever F cause its grooved lip G, resting on the cloth directly over lip H, to so rise and fall as to crease and mark the cloth where the next tuck is to be turned, which is in its turn placed in the device as first described.

What I claim, and desire to secure by Letters Patent, is—

1. The combination of tucking-plate A, marking-lever F, presser-foot P, and tucking-gauge D, operating together substantially as and for the purposes described.
2. The combination of plate-holder B, tucking-plate A, marking-lever F, presser-foot P, and tucking-gauge D, operating together substantially as and for the purposes explained.
3. The combination of marking-spring lever F with tucking-plate A, when the two are constructed, arranged with, and operated by the presser-foot, substantially as described.

Witnesses:

S. J. GORDON,
G. H. COLLINS.

MARY A. DUFFY.