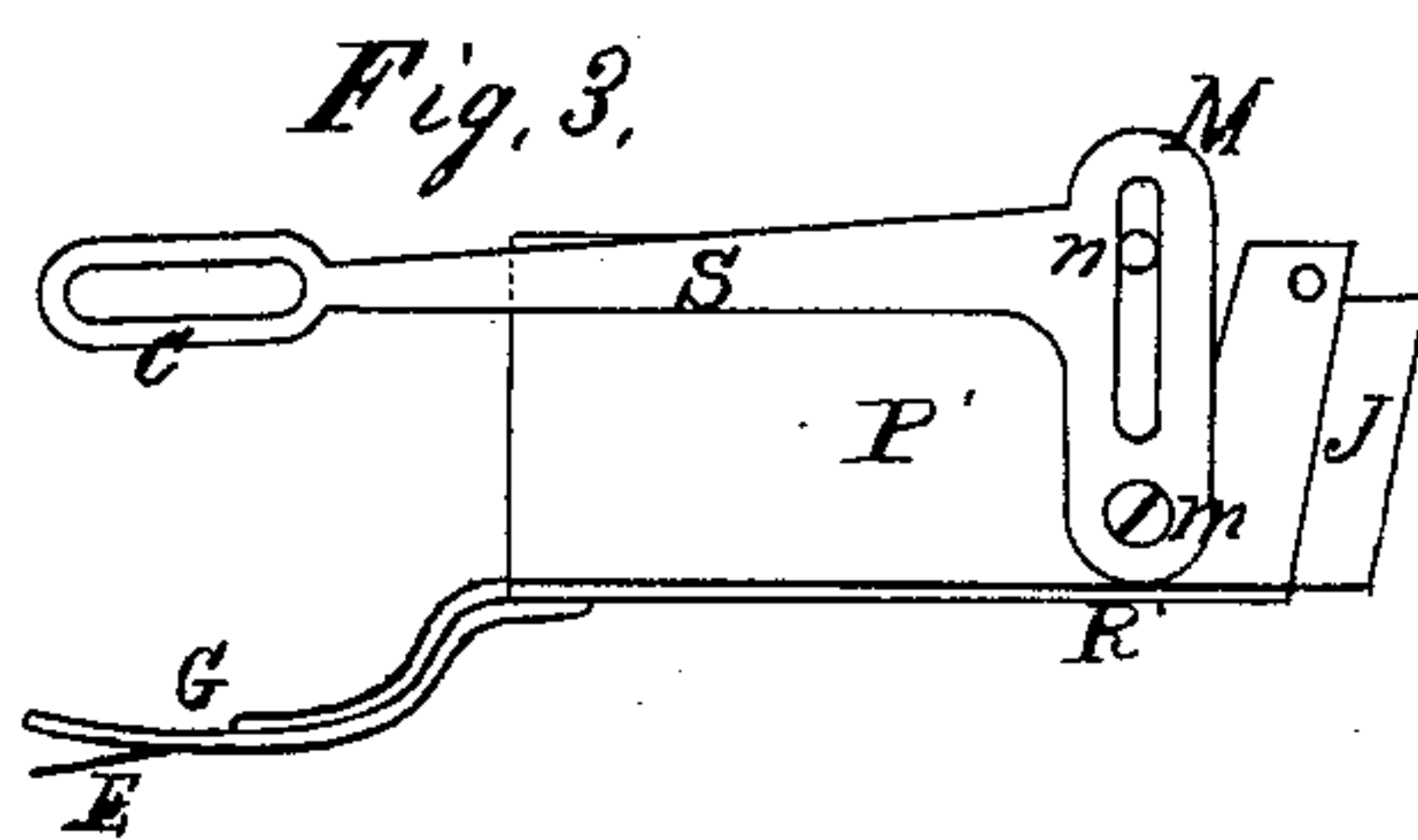
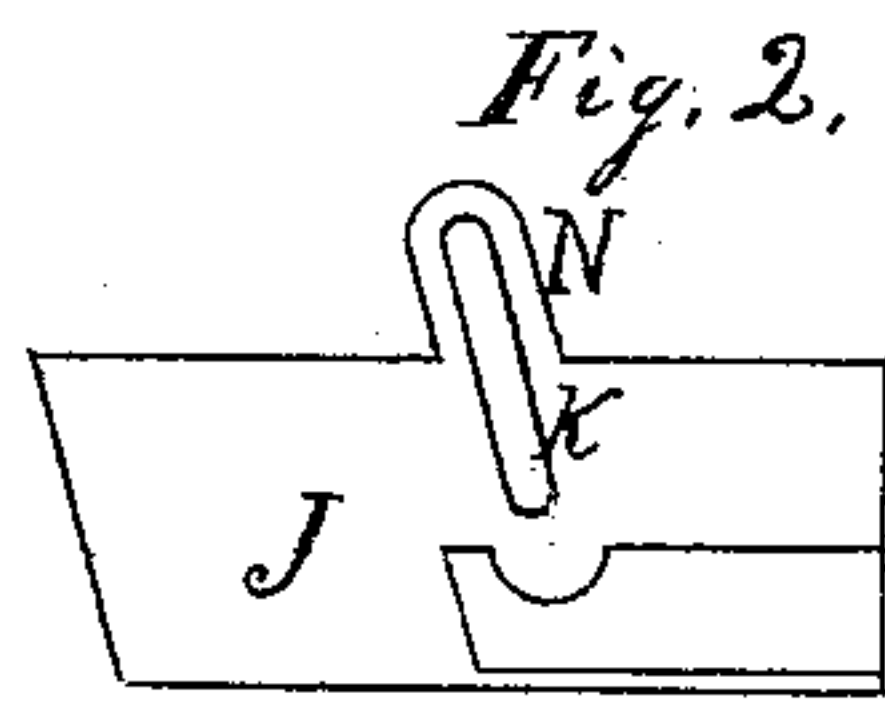
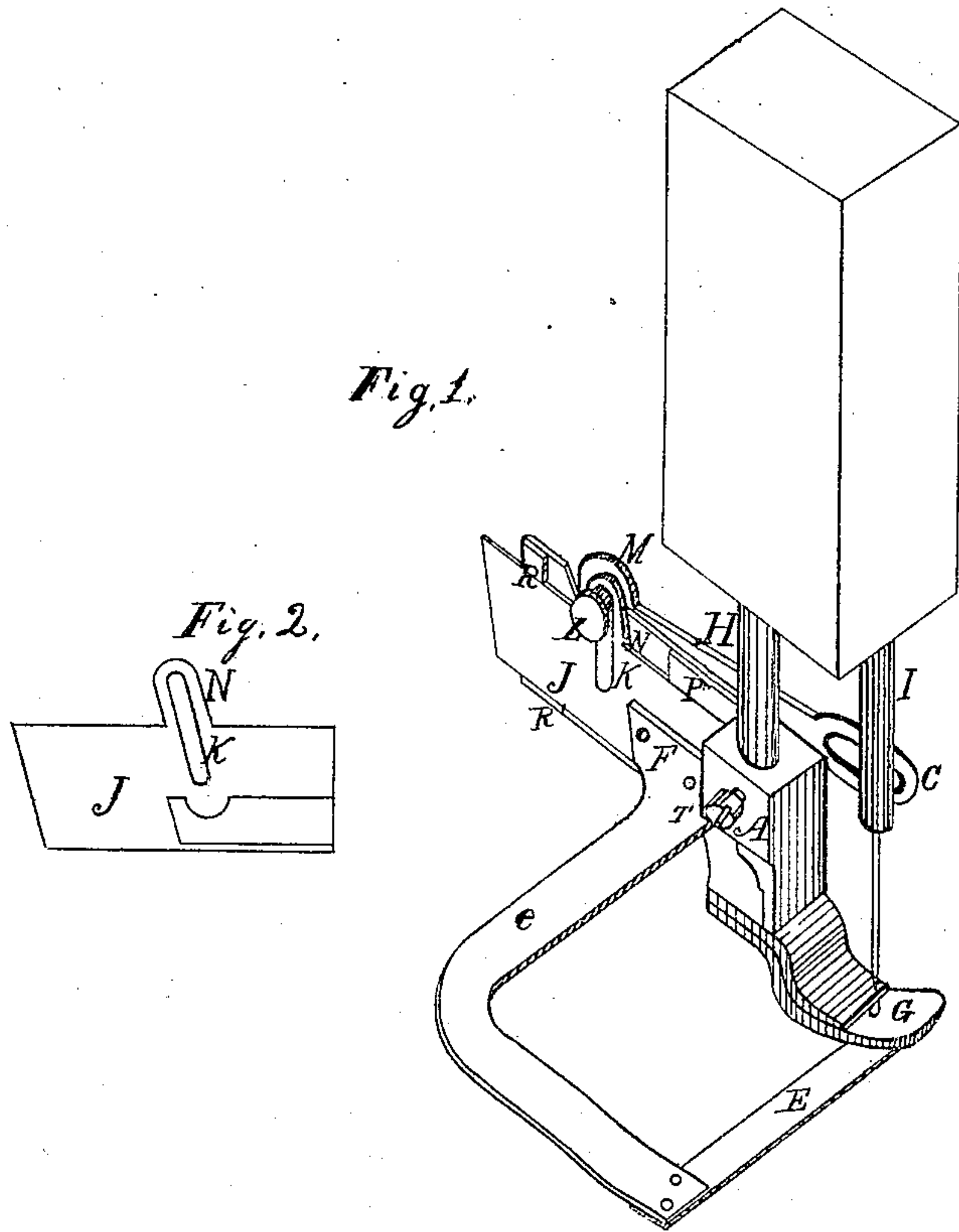


J. W. LYON.

Improvement in Rufflers for Sewing-Machines.

No. 131,012.

Patented Sep. 3, 1872.



Witnesses
James B. Ward
Geo L. Chapin

Inventor.
Joseph W. Lyon

UNITED STATES PATENT OFFICE.

JOSEPH W. LYON, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN RUFFLERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 131,012, dated September 3, 1872.

SPECIFICATION.

I, JOSEPH W. LYON, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful invention in Pleaters for Sewing-Machines, of which the following is a specification:

The present invention relates to sewing-machine attachments intended for making pleats; and consists in a combination of parts, hereinafter more fully described, and provided with means for readily adjusting the stroke of the blade of the presser-foot so that it may have a longer or shorter movement for taking more or less cloth into a pleat, as particular work may require; and it may be considered an improvement on an attachment patented by me January 30, 1872.

A represents a socket, constructed similarly to the one shown in the patent referred to. This socket supports a pressure-foot, G, and a frame, P', and the frame supports guides R P R', which support and guide a slide, J. To the said slide is rigidly fastened a metal arm, e, supporting the pleating-blade E, so that when the slide is moved back and forth by means hereinafter described the blade will also be moved and carry the cloth with it to form a pleat. The slide J is elongated at N so that a slot, K, may be made in it to receive a set-screw, L, Fig. 1, whose opposite end is shown at n, Fig. 3. This set-screw is clamped, by means of the said part m, to the slotted part N K when the attachment is in use, the end n projecting through the slot in the vertical part M of the lever S, causing the latter,

when in motion, to move the slide J, and consequently the blade. The lever S is pivoted to the frame P' at m, and to give the blade E a less longitudinal movement than it will have by the present position of set-screw L n the latter can be loosened and adjusted lower down in the slots of plate J and lever S.

Figure 1 is a perspective representation of the attachment, the blade E being on the left instead of the right hand. This position is better in many instances, as it saves folding a garment. Fig. 2 is an elevation of the slide removed from the other part; Fig. 3, a view of the inside of the lever attachment.

The loop C of this lever is operated by the needle-bar I in the usual manner.

By the within-described means the attachment is very much simplified, while at the same time it operates with less lost motion, and it can be set to make any desired width of pleat by simply loosening the set-screw L n.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

The combination of the frame P', the slotted lever S M, slotted slide J attached to the ruffling-blade, and movable set-screw L n, all constructed, combined, and operating as and for the purpose set forth.

JOSEPH W. LYON.

Witnesses:

G. L. CHAPIN,
SEVA WARREN.