

(No Model.)

W. DIEBEL.

TRIMMING ATTACHMENT FOR SEWING MACHINES.

No. 249,318.

Patented Nov. 8, 1881.

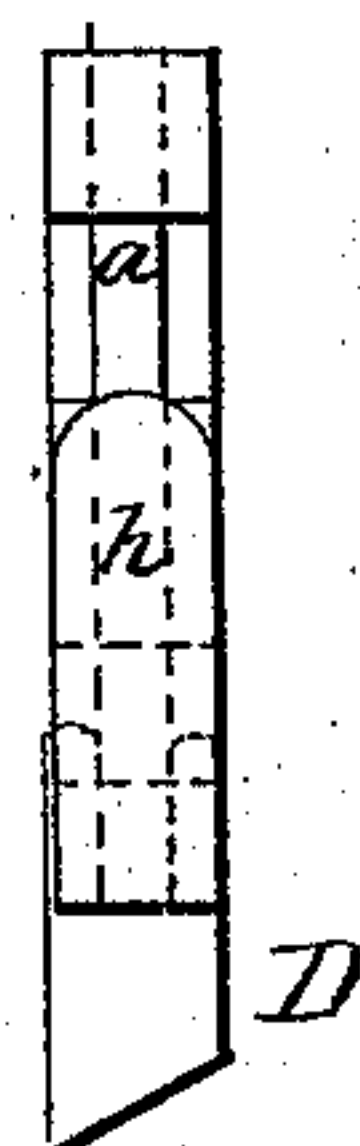
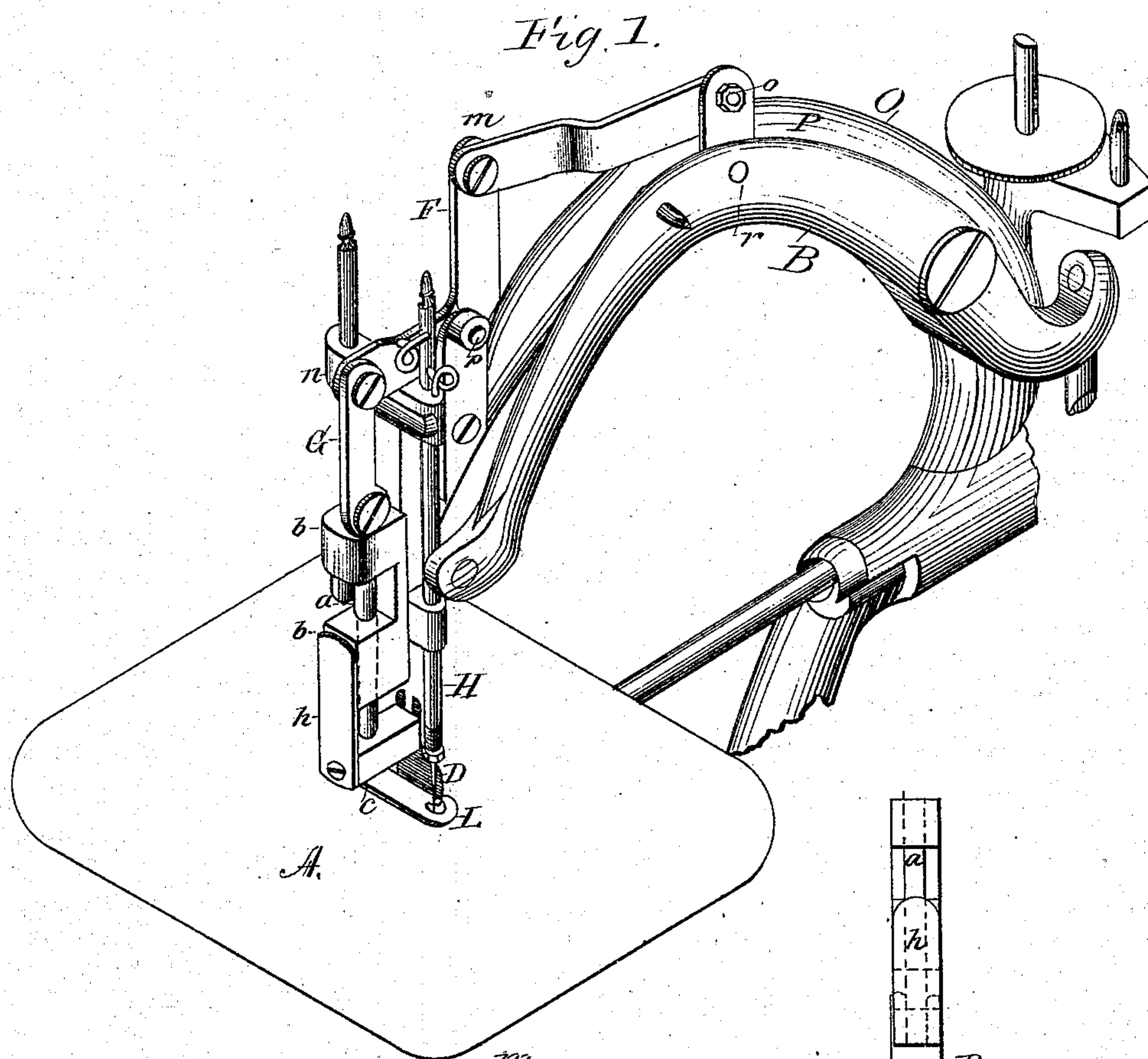
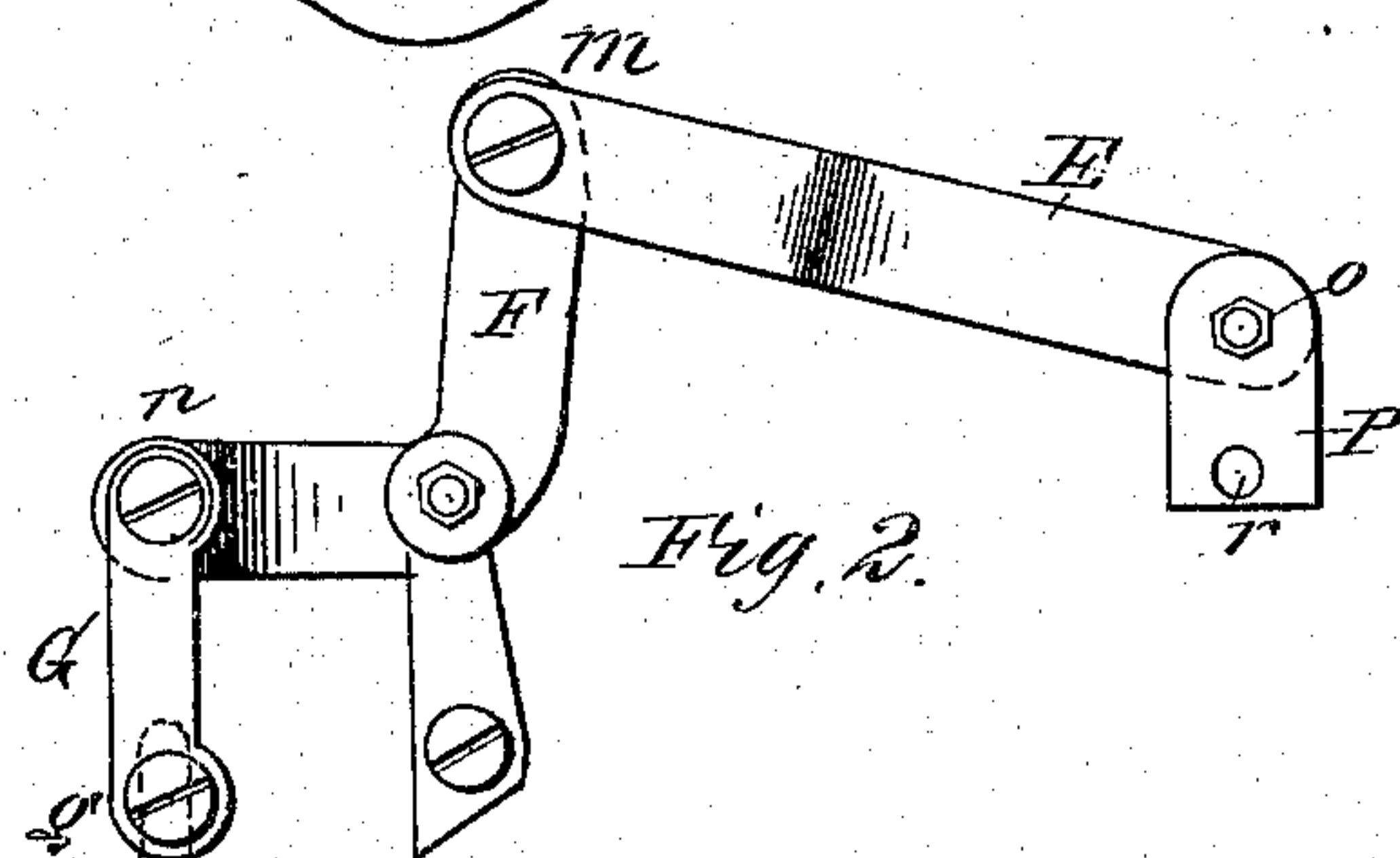


Fig. 3.



Witnesses,

Ges: A. Vaillant.

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TRIMMING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 249,318, dated November 8, 1881.

Application filed June 28, 1881. (No model.)

To all whom it may concern :

Be it known that I, WILLIAM DIEBEL, of Philadelphia, in the State of Pennsylvania, have invented certain new and useful Improvements in Trimming Attachments for Sewing-Machines, of which the following is a specification, reference being had to the accompanying drawings.

In these drawings, Figure 1 is a view in perspective of a portion of a sewing-machine provided with my improvement, and Figs. 2 and 3 are respectively side and end elevations of the trimming attachment separate from the machine.

My improvements belong to that class of trimmers in which a single chopper or unpivoted blade receives a vertical reciprocating motion in a plane parallel to the seam from the needle-arm of the sewing-machine; and it is the object of my invention to combine the working parts in the most advantageous manner. To that end I mount my blade upon a supplemental sliding rod or bar reciprocating vertically in guides attached to the presser-foot standard and parallel to both the needle-bar and the presser-foot rod, and by means of a bell-crank lever and links I take the reciprocating motion from the needle-arm at a point comparatively near its fulcrum, thus obtaining all the necessary range of reciprocation with but little leverage against the driving mechanism.

In the drawings, A, Fig. 1, represents the work-plate of the machine, having a slot parallel to the line of feed and adjacent to the needle, in which the cutter-blade D moves freely. I prefer to form this cutter with an oblique edge, as is indicated in Fig. 3.

B is the needle-arm of the machine, which in the instance shown is of the Wilcox & Gibbs type.

O is the standard, which supports the presser-foot L and its operating mechanism.

H is the needle-bar.

Mounted upon the same standard with the presser-foot is the trimmer-carrier *b b*, in which the trimmer-bar *a* slides freely in a vertical direction. At the lower end of the bar *a*, and at right angles thereto, is a lateral projection, *c*, which I term the "trimmer-foot," and one end of which extends between and slightly beyond the needle-bar and the presser-foot bar. The trimmer D is secured to this end of the trimmer-foot *c* in any suitable manner. The opposite end of the trimmer-foot *c* is provided with a guide, *h*, which fits snugly against the flat face of the trimmer-carrier *b b* and insures the parallelism of the trimmer-blade. The upper end of the trimmer-bar *a* is attached to a link, G, which, in turn, is connected with one arm of a bell-crank lever, F, pivoted to the standard O at *p*. The other arm of the lever F is connected at *m* with a link, E, which is pivoted at *o* to a projection, P, on the needle-arm.

The remaining parts of the sewing-machine are only partially indicated in the drawings, as their construction is well understood.

The operation of the attachment is as follows: The work having been properly adjusted beneath the presser-foot, the sewing-machine is run, and the material as it is stitched is brought beneath the knife. The reciprocation of the needle-arm causes the knife to vibrate vertically in the slot, and thus trim the edge parallel to the seam.

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

The combination, with the needle-arm, of the trimmer-bar and its guides and the bell-crank lever and its links, substantially as and for the purposes specified.

WM. DIEBEL.

Witnesses:

CHARLES F. ZIEGLER,
J. WALTER DOUGLASS.