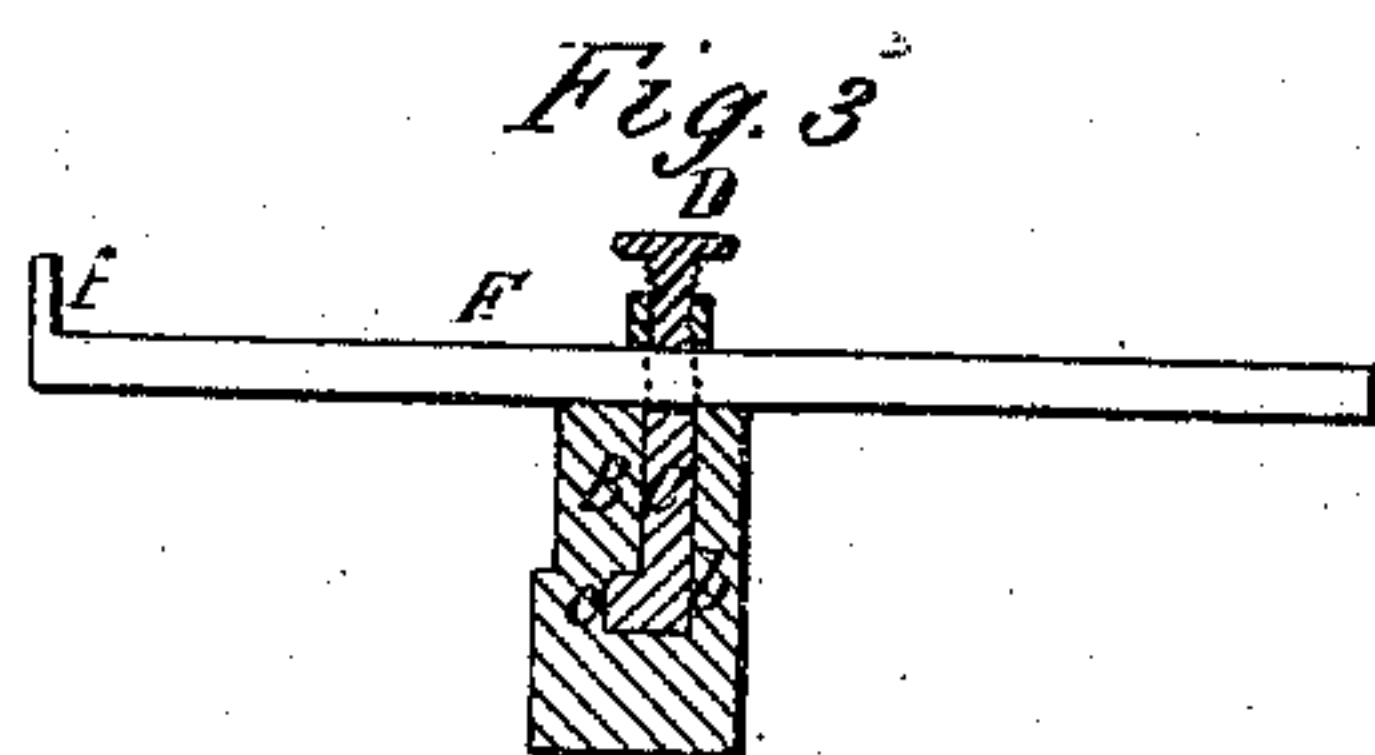
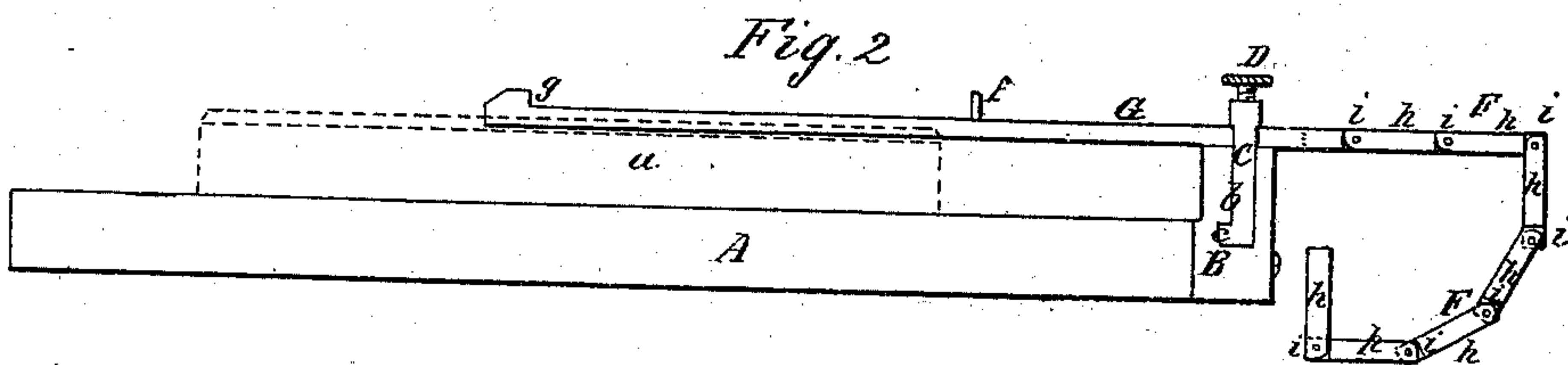
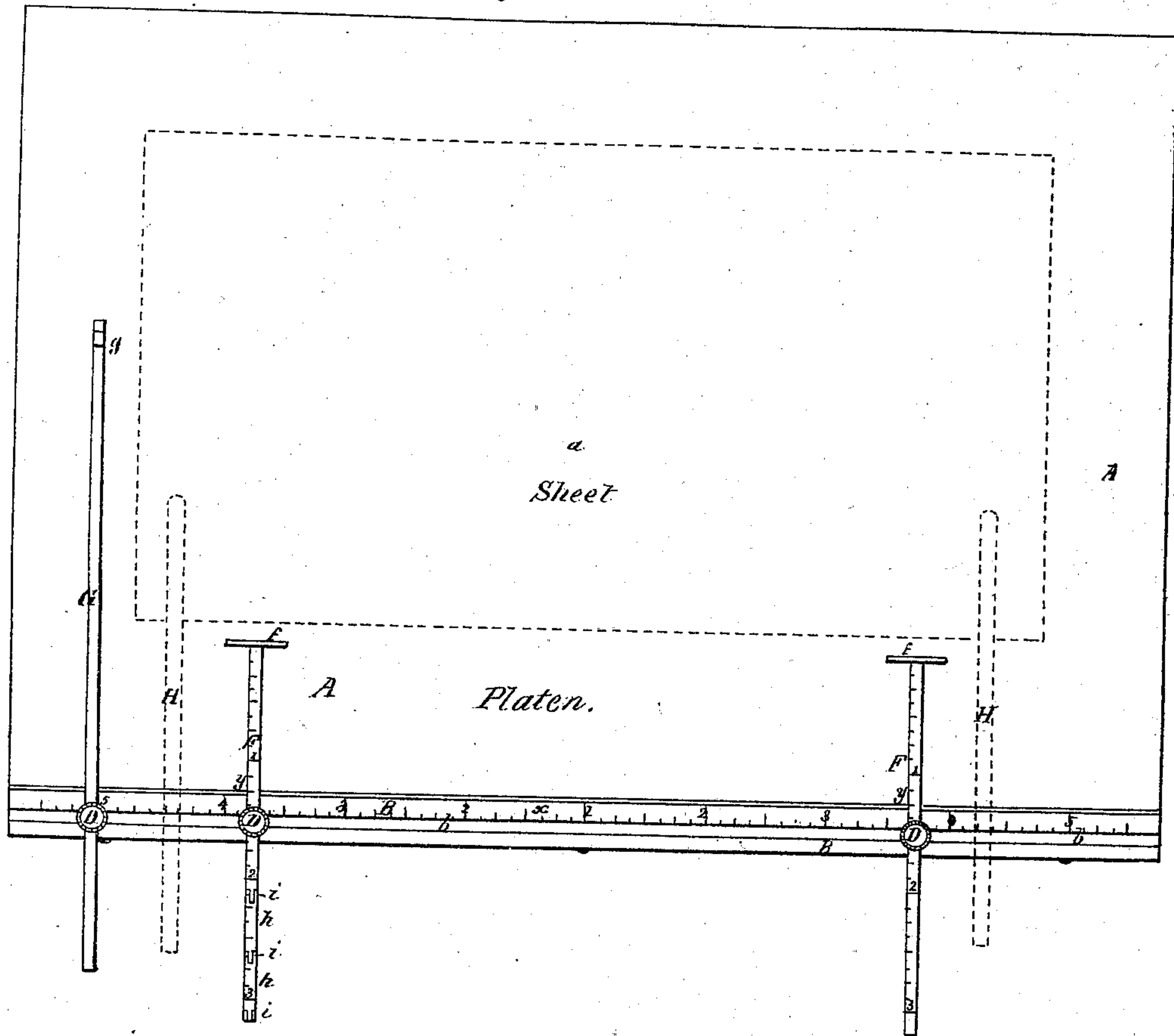


J. W. Thwing.
Paper Gauge for Printing Press.

Nº 58123.

Fig. 1 *Patented July 3. 1866.*



Witnesses:

Inventor:
J. Warren Thwing.
By his atty.
J. S. Brown.

UNITED STATES PATENT OFFICE.

J. WARREN THYNG, OF SALEM, MASSACHUSETTS.

PAPER-GAGE FOR PRINTING-PRESSES.

Specification forming part of Letters Patent No. **56,123**, dated July 3, 1866.

To all whom it may concern:

Be it known that I, J. WARREN THYNG, of Salem, in the county of Essex and State of Massachusetts, have invented an Improved Gage for the Platens of Printing-Presses to determine the position of the sheets of paper as they are laid upon the form for printing; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification—

Figure 1 being a top view of the gage as applied to the platen of a printing-press; Fig. 2, an end view thereof; Fig. 3, a transverse section of the gage through one of the adjusting-clamps.

Like letters designate corresponding parts in all of the figures.

The object of this invention is to furnish an exact guide for laying the sheets of paper on the form so that they shall all be printed uniformly and with even margins. The gage is applied to the back or lower edge of the platen A of a printing-press.

The particular construction of the several parts of the gage may be varied at pleasure if the principle of its action is not departed from. As represented, it has a long bar, B, screwed or otherwise fastened to the platen, and provided with a longitudinal groove, *b*, in its upper side for the reception of the adjusting-clamps C C C, which have hooks or side projections, *c c*, fitting into an offset of the groove, substantially as shown, to hold the clamps in the grooves, but not to interfere with their sliding lengthwise therein. Through the clamps C C C pass the gage-rods F F G, and they are secured in any position by means of thumb-screws D D D, which clamp the rods firmly down upon the face of the gage-bar B.

The gage-rods F F gage the rear or lower edge of the sheet of paper in relation to the form, (indicated by red outlines *a*), and there should be two of them, and may be more, if the form is long. They may have widened ends or heads for the edge of the paper to touch and rest against.

The gage-rod G is to gage the transverse

position of the sheets of paper, and is placed at either side edge thereof. It necessarily projects farther forward than the back gages, F F, and has a widened end or head, *g*, parallel with the rod itself, for the paper to touch and rest against.

The rods F F have to project forward equally, and to facilitate the determination of their positions they have scales *yy* of inches and subdivisions thereof marked upon them. The side gage-rod G, having to be adjusted only sideways, the scale *x* of inches is marked upon the gage-bar B, numbering from the center 1 to the ends thereof.

The height of the gage-bar B is such that the gage-rods will present their heads opposite to the edges of the paper as it is placed upon the types.

In order to adapt the gage-rods to different sizes of platens and the varying sizes of the forms, I contemplate jointing them, as shown, by one of the rods F F in Figs. 1 and 2. The parts *h h* are so connected with one another by joints *i i* that they will double together in one direction only, as seen in Fig. 2, but will be sufficiently rigid when straightened out. A spring may help to keep the jointed portions extended. Thus the projecting ends may be doubled together out of the way, enabling gage-rods of any length to be used.

This gage does not interfere with the nippers H H, (shown by red lines in Fig. 1,) nor with any part or operation of printing-presses.

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

The combination and arrangement of the graduated grooved bar B, attached to the edge of the platen, the adjusting-clamps C C C, and gage-rods F F G, substantially as and for the purpose herein specified.

The above specification of my improved gage for holding sheets of paper on the platens of printing-presses signed by me this 16th day of November, 1865.

J. WARREN THYNG.

Witnesses:

JOHN B. PARKER,

WILLIAM A. BABIDGE.