

W. OVEREND.

Register-Point Perforating Devices.

No. 143,374.

Patented September 30, 1873.

Fig. 1

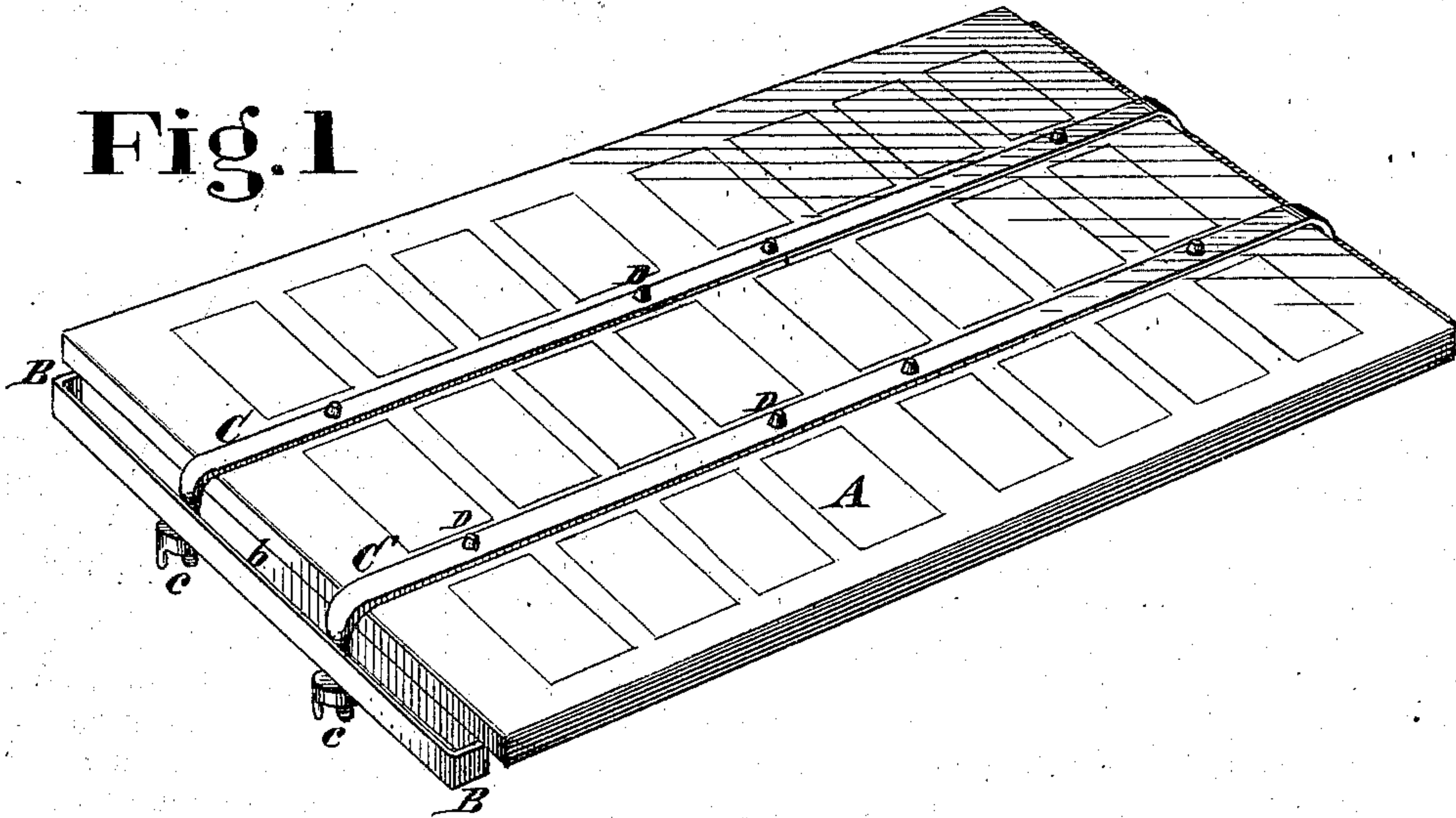


Fig. 2

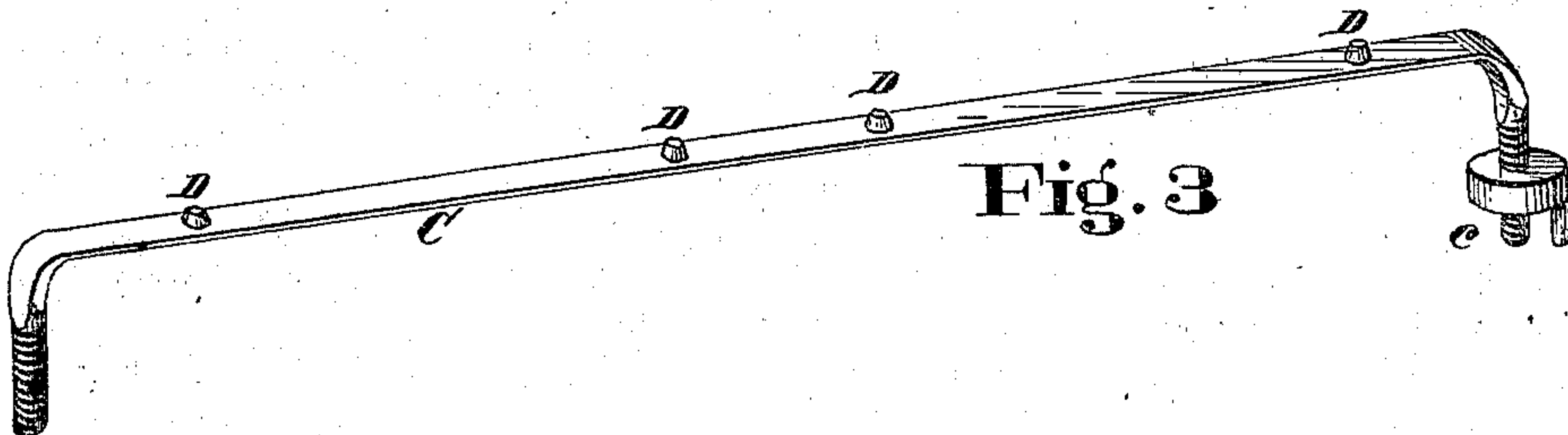
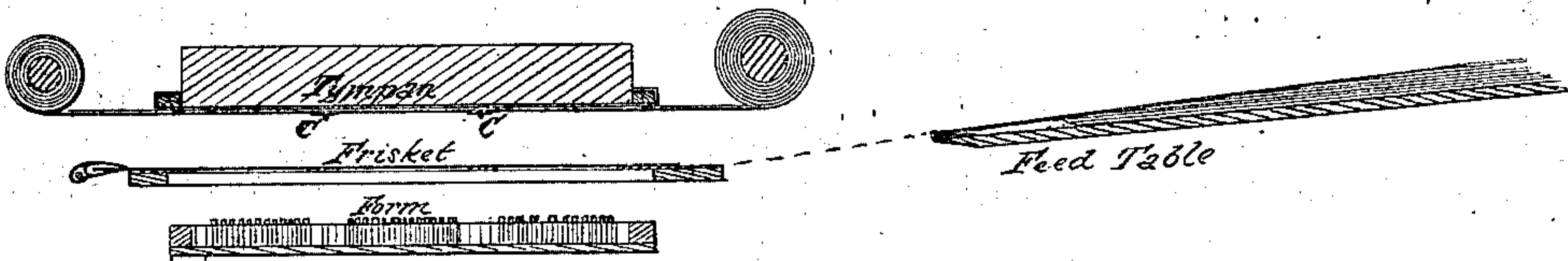
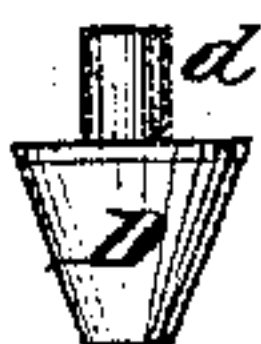


Fig. 3

Attest

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Fig. 4



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UNITED STATES PATENT OFFICE.

WILLIAM OVEREND, CINCINNATI, OHIO, ASSIGNOR TO EDWIN CHAMBERS
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IMPROVEMENT IN REGISTER-POINT-PERFORATING DEVICES.

Specification forming part of Letters Patent No. **143,374**, dated September 30, 1873; application filed
April 30, 1873.

To all whom it may concern:

Be it known that I, WILLIAM OVEREND, of Cincinnati, Hamilton county, Ohio, have invented a certain new and useful Register-Point-Perforating Device to facilitate book-folding by machinery, of which the following is a specification:

My invention relates to devices for punching point-holes on printed paper sheets for regulating and guiding the movements of the folding-machine; and consists of two or more metal bars extending the whole length of the tympan of a printing-press, to which they are so attached as to allow of their position being adjustable thereupon, to which bars are attached a series of metallic punching-points, by means of which the point-holes are punched through the paper at the same time that the impression of the type is struck off, so that the sheets are at once ready for the folding-machine.

Figure 1 is a perspective view of the tympan-frame of a printing-press reversed so as to show its under side, showing my invention and my method of attaching it to the tympan. Fig. 2 is a vertical section of tympan, frisket, and form with my invention attached to the tympan. Fig. 3 is an enlarged perspective view of one of the bars embodying my invention. Fig. 4 is an elevation of one of my punching-points detached.

A is a tympan, the frame of which has at each end an open or slotted rail, B, the slot *b* of which extends the whole width of the frame.

C C' are metal bars extending lengthwise along the tympan, bent and screw-threaded at the ends to receive tightening-nuts *c c* to secure them to their position, which is adjustable to correspond with the margins of the pages. (Shown in outline upon the tympan in Fig. 1.) Riveted through these bars, at the desired intervals, are the punches, Fig. 4, having a stud or rivet, *d*, for passing through the bar, and a punch-head, D, which is the frustum of a cone, having beveled sides and a flat end.

In operation, the sheet being placed upon the frisket, and the form and frisket pressed tightly against the tympan by the operation of the press, these punch-heads perforate the paper at the same time, so that the sheet is removed ready pointed for the folder. The projection of the metal bars beyond the surface of the tympan also causes them to serve as a guard to prevent the contact of the ink-roller with the tympan-sheet.

I claim—

In combination with the tympan of a printing-press, the adjustable bars C C' with the attached punch-heads D D, constructed and operating substantially as and for the purpose specified.

In testimony of which invention I hereunto set my hand.

WILLIAM OVEREND.

Witnesses:

FRANK MILLWARD,
J. L. WARTMANN.