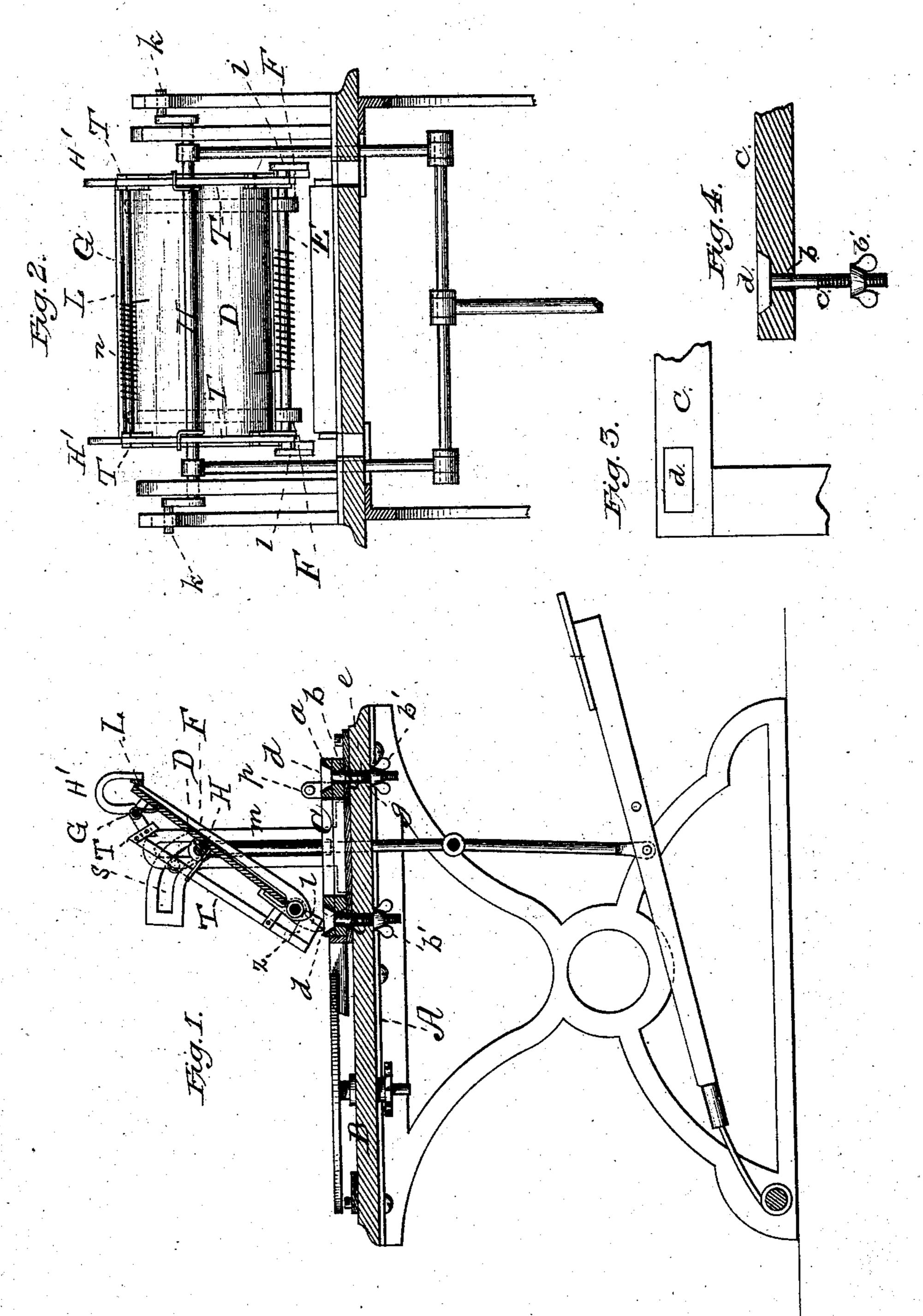
E. L. GILMAN. Printing-Machine.

No. 224,897.

Patented Feb. 24, 1880.



John Celeio. Af Clasi. Edward L. Gilman by EM. Anderson Lis ATTORNEY

United States Patent Office.

EDWARD L. GILMAN, OF SOMERVILLE, ASSIGNOR TO HENRY W. BRAGG, OF BOSTON, MASSACHUSETTS.

PRINTING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 224,897, dated February 24, 1880. Application filed March 29, 1879.

To all whom it may concern:

Be it known that I, EDWARD L. GILMAN, of Somerville, in the county of Middlesex and State of Massachusetts, have invented a new 5 and valuable Improvement in Printing-Presses; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a 10 part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal central section of my printing-press, and Fig. 2 is a transverse section of 15 the same; and Figs. 3 and 4 are details.

This invention has relation to printingpresses.

The nature of the invention consists in the transverse finger-holding strip carried by the 20 bent tension-arms pivoted to the platen and engaging a stop, and pivoted tripping bars also connected to the platen and to said tension-arms, as hereinafter shown and described.

In the accompanying drawings, the letter 25 A designates the table of the press; B, the bed; and C, the chase or frame for holding the type, having in its face the oblong depressions a, formed with beveled sides, and provided with holes b for the passage of the bolts c, hav-30 ing elongated heads d, of similar size and form to the depressions a, and designed to fit closely therein when the bolts d are passed through the holes in the bottoms of said depressions. These bolts also pass through corresponding 35 holes e and g in the bed and table, and are secured underneath the latter by means of thumb-screws b'.

By means of the beveled bolts and the recesses in the face of the chase, in which they 40 are received in a wedging manner, the position of the chase is very accurately fixed when the bolts are drawn home by the action of the thumb-screws.

D indicates the platen, operated by the 45 rock-shaft H, having the cranks k and the camslots s and ways m, or by such other means as may be desirable to produce a reciprocating and turning movement. Stops p are provided at each side of the chase, being usually erect-50 ed from the bed. At its lower margin the platen is provided with a spring rock-shaft, E,

carrying the fingers F, and having on its ends the slips l, which, coming in contact with the stops p, serve to raise the fingers from the face

of the platen.

Behind the upper portion of the platen is arranged a transverse rod, G, which is pivoted to lugs on the platen. This rod is provided with a tension-spring, n, and carries at each end a bent arm, H', which extends up- 60 ward over the margin of the platen, and is secured to one end of the transverse strip L, which is designed, being actuated by the tension-spring, to firmly clasp the tops of the fingers. The lower ends of these arms H'en-65 gage with the ends of the trips or leverbars T, which are forked or otherwise formed to permit this engagement without binding. These bars T are pivoted to lugs in the lower portion of the platen, and, extending below 70 said lugs, are provided with forward projections, z, which are arranged by the side of the slips l of the finger-shaft, and have the front or bearing edges a little forward of those of said slips, in order to come first in contact 75 with the stops p.

The operation is as follows: When the platen rises and tilts backward after turning, the projections z of the trips T strike the stops pand throw back the bent arms H', and with 80 them the holding-strip L, releasing the fingers F, which are then raised by the action of the slips l, which come into engagement with the stops p a little later in the movement of the platen. In the reverse movement the fin- 85 gers close upon the platen, and the holdingstrip afterward is brought to bear upon the

ends.

Having described my invention, what I claim as new, and desire to secure by Letters 90 Patent, is—

The combination, with the bent arms H' and finger-holding strip L, of the trips T, pivoted to the platen and engaging the stop p, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EDWARD L. GILMAN.

Witnesses: W. F. LOVEJOY, A. Q. CARPENTER.