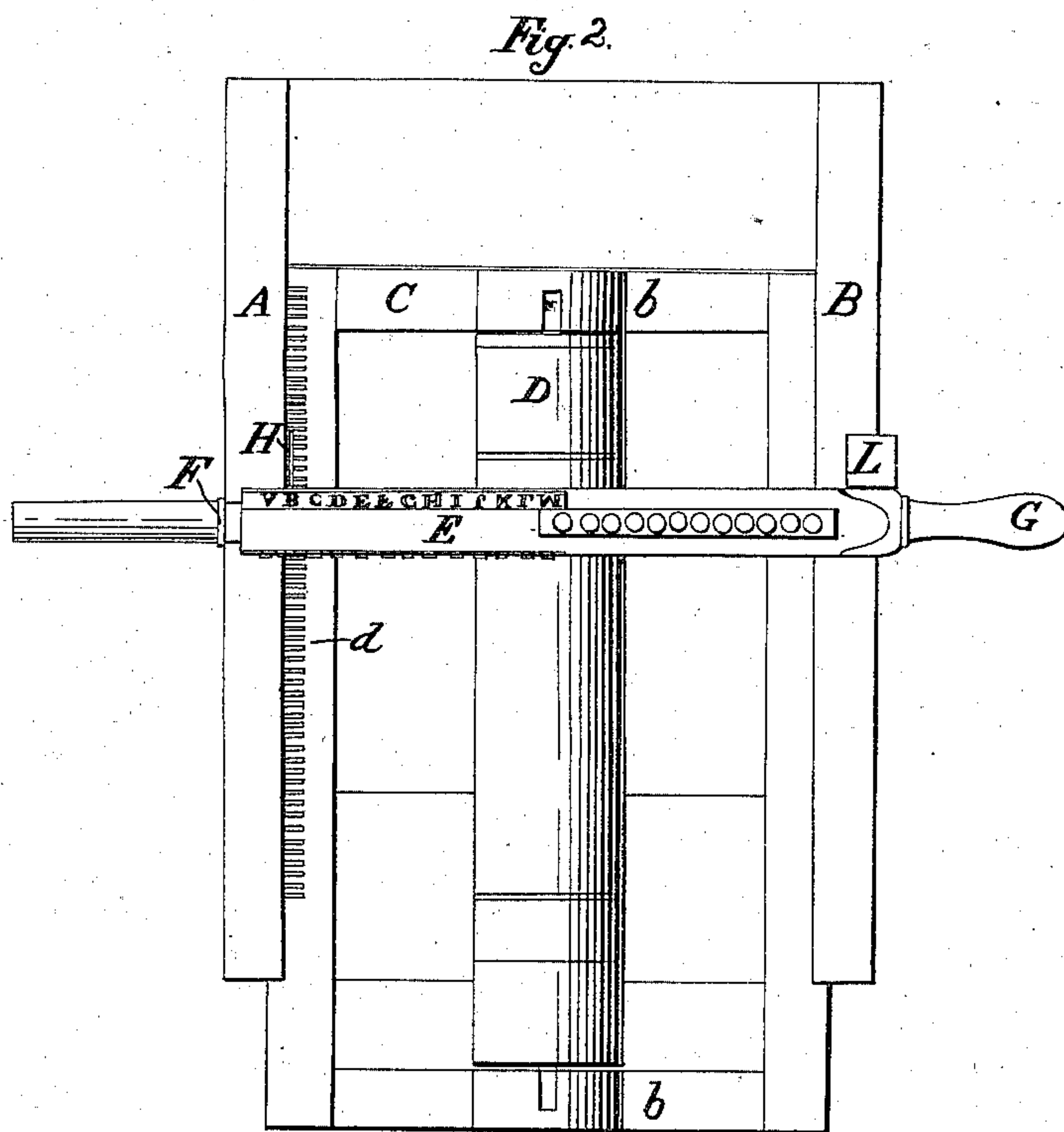
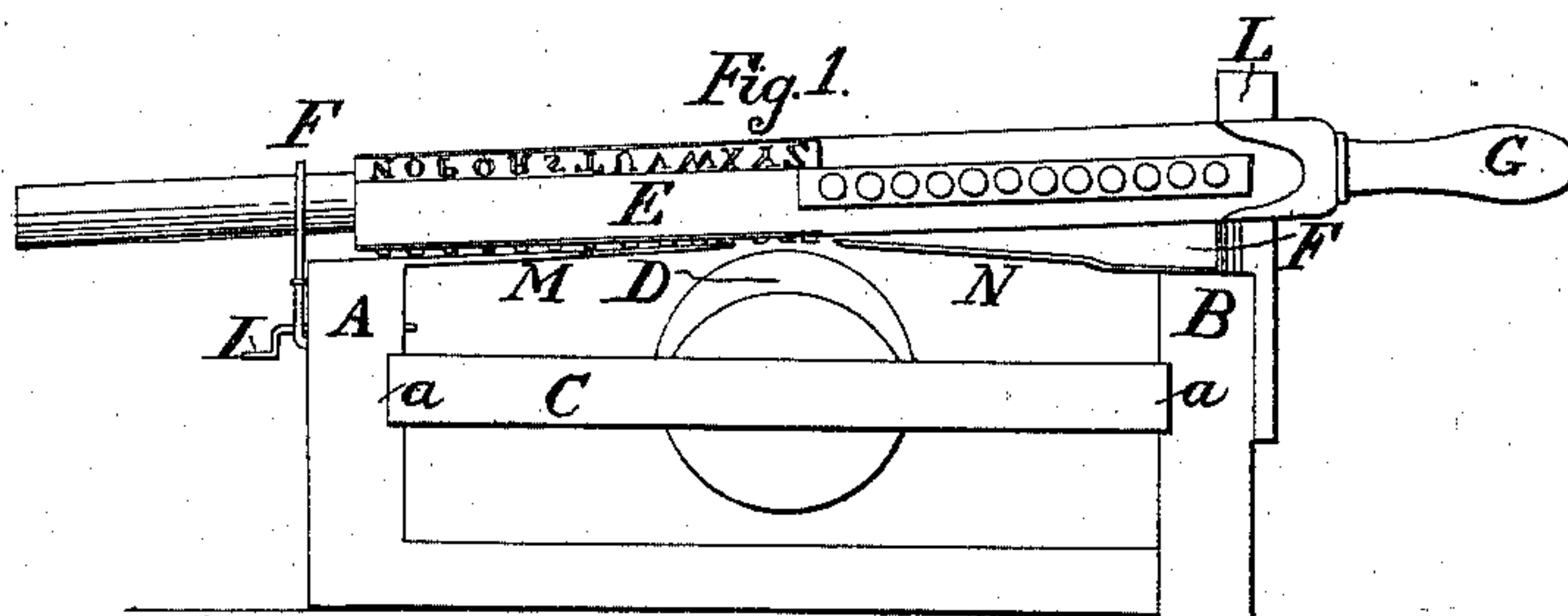


No. 10,995

PATENTED MAY 30, 1854.

R. S. THOMAS.
TYPOGRAPH.



Witnesses:

*Chas. Everett
J. W. Forrest*

Inventor:

R. S. Thomas

UNITED STATES PATENT OFFICE.

ROBERT S. THOMAS, OF WILMINGTON, NORTH CAROLINA.

IMPROVED TYPOGRAPH.

Specification forming part of Letters Patent No. 10,995, dated May 30, 1854.

To all whom it may concern:

Be it known that I, ROBERT S. THOMAS, of Wilmington, in the county of New Hanover and State of North Carolina, have invented certain new and useful Improvements in Typographs; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is an end view, and Fig. 2 is a top view, of the machine.

Similar letters of reference indicate corresponding parts in each of the several figures.

My invention consists in a simple contrivance, constructed, arranged, and operating as will be hereinafter shown, by which any person that can read can print with neatness and expedition.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct a suitable frame consisting of two longitudinal pieces, A and B, with cross-pieces uniting them at the bottom. Another frame, C, composed of two longitudinal pieces united at the ends by cross-pieces *b*, slides in grooves *a* in the pieces A and B. A cylinder, D, is placed lengthwise in the frame C, revolving freely upon its journals in the centers of the cross-pieces *b*. The type-holder E is a bar made square about two-thirds of its length and cylindrical for the remaining portion, which is also much smaller than the square part. The types required are firmly fixed to the sides of the square portion of the bar E near its angles. They are divided among the four sides to make the machine more compact than it would be if the types were arranged on one side only. The cylindrical portion of the bar E passes through an eye or ring, F, fixed to the piece A, which forms a fulcrum for the bar when in use. The other end of the bar E has a handle, G. On each of the sides of E is a longitudinal row of holes, so placed that their centers shall be at the same distance apart as the centers of the types in the rows are, and corresponding in number. A vertical pin, F, projects upward from the piece B of a size to fit the holes in E. The frame C is provided with a rack, *d*, into which the spring-dog H takes. This dog can be raised by the crank-lever I when required. An upright, L, is

fixed to the piece B and acts as a guide to the type holder when in operation. Two horizontal springs, M and N, are fastened securely by their ends to A and B and project horizontally toward the center of the machine directly under the types upon the bar E, (when the latter is in its working position,) and approach sufficiently near to prevent more than one letter at a time acting upon the paper on the cylinder D. These springs are covered on their upper surfaces with suitable material to hold the ink, and constitute the inking apparatus of the machine.

Its operation is as follows: The springs M and N being supplied with ink and a sheet of paper placed round the cylinder D and there secured by springs, the operator takes hold of the handle G, and, raising it, turns it until the desired letter is underneath, then brings it in contact with the inking apparatus. He then brings that letter over the space between the ends of the springs M and N, and, allowing the guide-pin F to enter the hole which corresponds with that letter, presses the bar down with a force sufficient to produce the impression upon the paper on the cylinder and overcome the resistance of the springs, the reaction of which lifts the type from the paper when the pressure is removed. The same operation is repeated with the succeeding letters, the cylinder D being turned each time sufficiently to leave a proper distance between the letters. Additional type-holders of the same size and shape can be used, containing other sizes and styles of type, if required. When a line is completed, the sliding frame C is moved more or less, according to the distance required between the lines.

Having thus fully described my improvements, what I claim as my invention, and desire to secure by Letters Patent, is—

The type-holder E, with its types and corresponding guide-holes or their equivalents, in combination with the pin F, the spring inking apparatus, and the revolving cylinder in its sliding frame C, constructed and arranged substantially in the manner and for the purposes specified.

R. S. THOMAS.

Witnesses:

CHAS. EVERETT,
SAML. GRUBB.