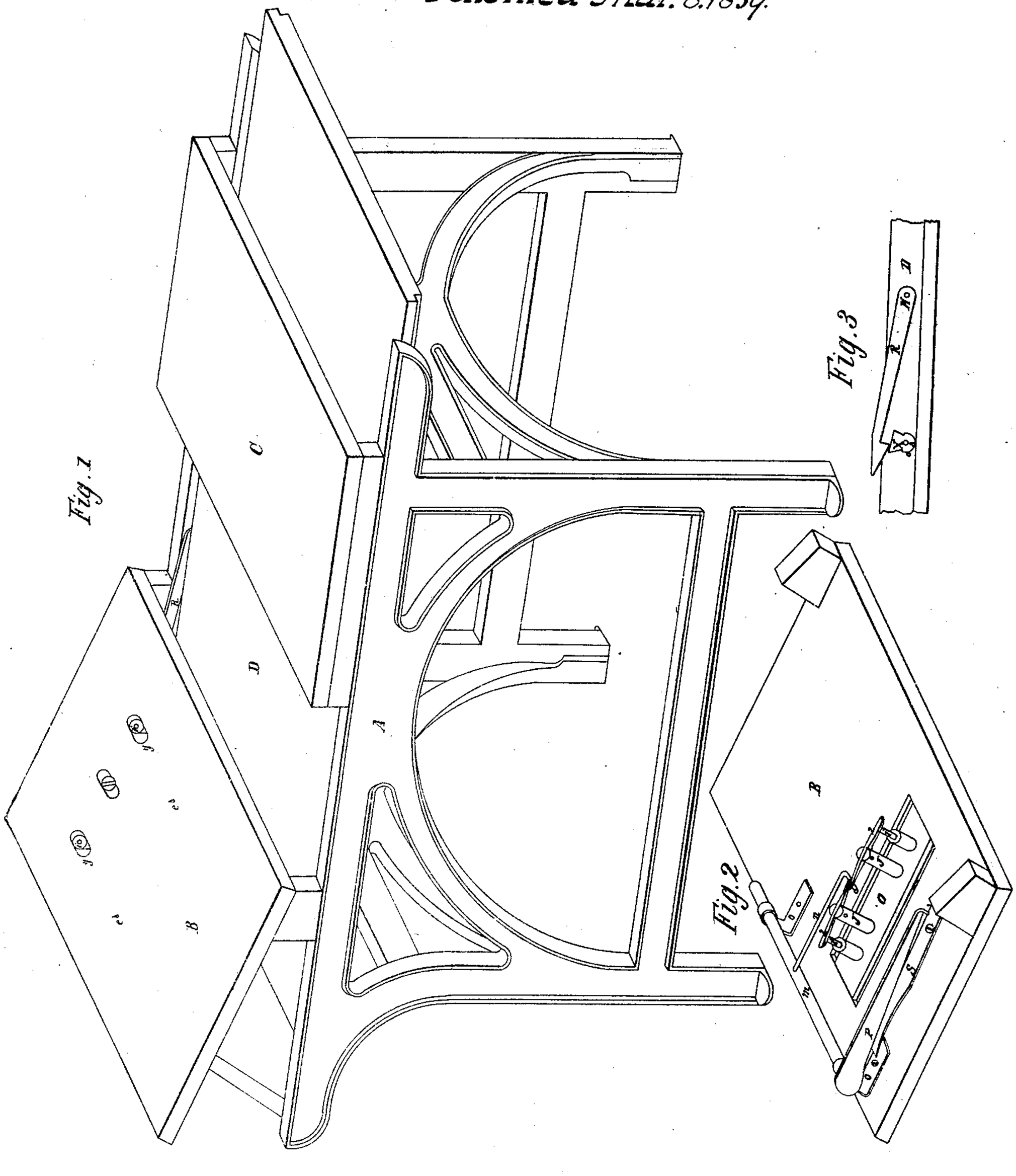
J. North.

Registering Appⁿ's for Printing.

No. 23221. Patented Mar. 8. 1859.



Witnesses

Duncan Smith
Wm. H. Armstrong

Inventor

John North

UNITED STATES PATENT OFFICE

JOHN NORTH, OF MIDDLETOWN, CONNECTICUT, ASSIGNOR TO HIMSELF, AND D. APPLETON & CO., OF NEW YORK, N. Y.

REGISTER FOR SHEETS OF PAPER.

Specification of Letters Patent No. 23,221, dated March 8, 1859.

To all whom it may concern:

Be it known that I, JOHN NORTH, of Middletown, in the county of Middlesex and State of Connecticut, have invented a certain new and useful improved mode of making register point-holes in sheets of paper while on the feed-table in the process of printing for the purpose of feeding in register to a folding-machine and also a certain new and useful mode of effecting this object by attaching suitable mechanism to the feed-table, frame, and carriage of the ordinary printing-press; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

Figure 1, is a perspective view of a printing press with the carriage D, to which the trip lever moving the apparatus referred to is attached, the platen C, and the feed table B, which is perforated with the register holes required for the working of the apparatus, the apparatus itself being attached under the feed table. Fig. 2, represents the feed table turned upside down, showing also inverted the apparatus for making the register points. Fig. 3, is a section of the carriage D, showing the trip lever R, and the cam X, which last is attached to frame Fig. 1.

My invention consists in attaching to the feed table two additional register points, and operating them for the purpose of making register point holes in the half sheet of paper in the process of printing.

To make the required register point holes in the half sheet, I attach two additional register points made adjustable at *y*, *y*, and made to operate at the proper time by the advance of the carriage D. The sheet being placed on the feed table on the points, *e*, *e*, as usual in printing presses, upon the advance of the carriage D, to take the sheet to be printed, the trip lever R, attached to the carriage at H, is raised by means of the cam X, Fig. 3. This cam is attached to the frame. The trip lever R, being raised, as it goes on raises the lever P, which is attached to the shaft *m*, hung in the boxes *o*, *o*, and thereby at the same time raises the lever *n*, attached to shaft *m*, which operates the two levers 2, 2, which are hung in the studs J, J. When the carriage moves to take the sheet from the feed table, the trip lever R, is raised by the cam X, the lever R, coming in connection with lever P, the latter is raised, and when the carriage is at the proper place to receive the sheet, the trip lever R, drops, and thereupon by the force of the spring S, the lever *n*, strikes the levers 2, 2, and forces the two points *i*, *i*, up through the sheet and makes register for the folding machine.

The mode heretofore used of making register in sheets is to place the points on the frisket which lies over the type form. The sheet on being taken from the feed table lies on the frisket over the points, and is carried under the platen C, where the sheet receives its impression and point holes at the same time. This method of making register point holes is very objectionable, as it injures the rubber cloth which is fastened to the platen C, the points forcing the small particles of paper into the rubber cloth and making it uneven. The rubber cloth is soon spoiled by this means, and has to be taken off and renewed at great expense and trouble. To obviate this difficulty and make the points more easily adjustable to suit different sized sheets and pages, is the object of my invention.

Having thus fully described my mode and apparatus for making register point holes, what I claim as my invention and desire to secure by Letters Patent is,

1. The attaching to the feed table of the printing press of two or more register points in addition to those commonly used for printing, so as to make register point holes in the sheet to be printed at the exact points required for the purpose of feeding the sheet in register to folding machines to be folded.

2. I claim the application for that purpose of the above described mechanism or other suitable mechanism of the same general description, attached to the feed table, frame and carriage of the printing press, and which will produce the intended effect.

JOHN NORTH.

Witnesses:

DUNCAN SMITH,

WM. N. ARMSTRONG.