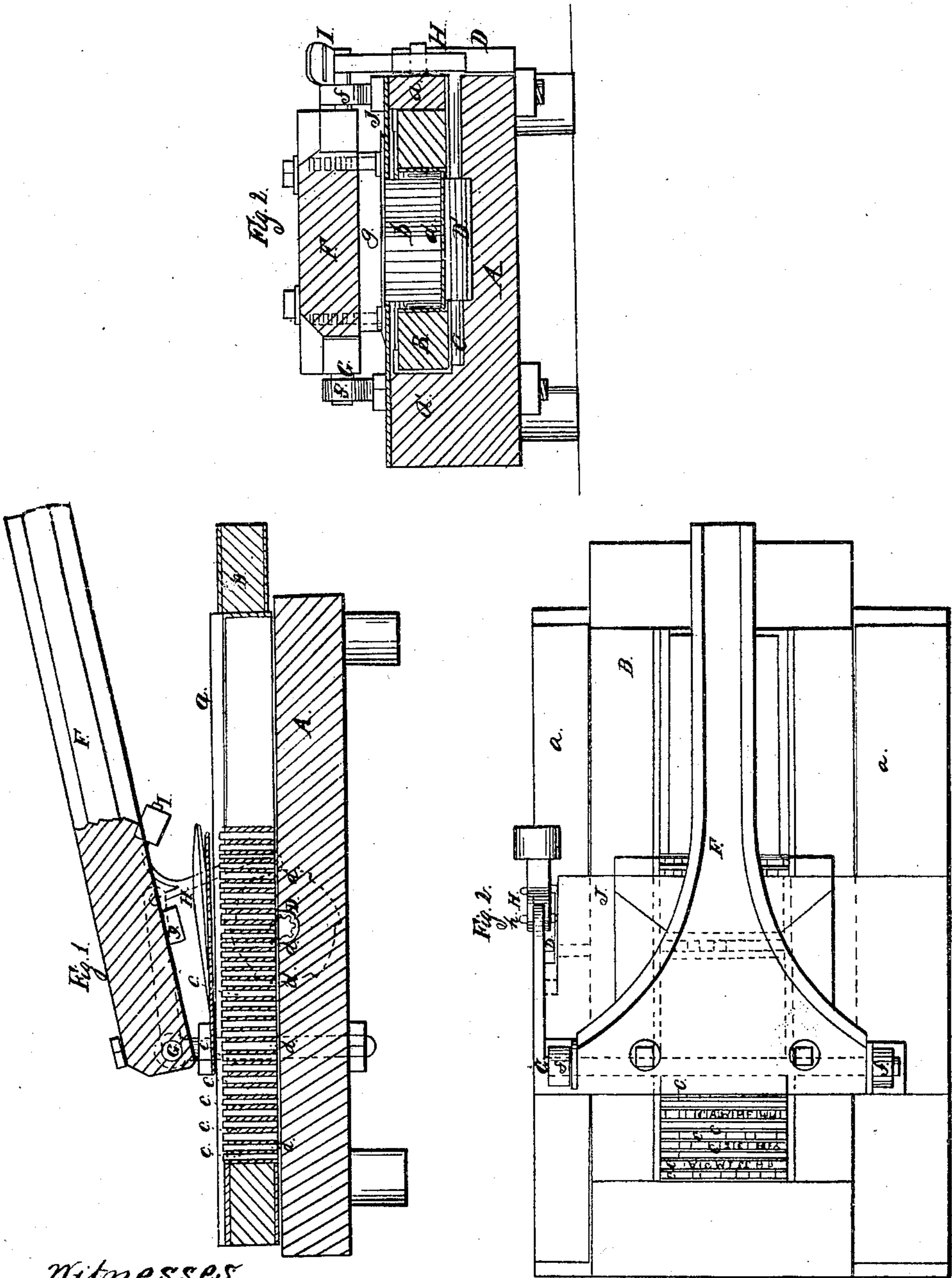


D. B. TIFFANY & S. W. SOULE.  
PRINTING MACHINE.

No. 27,580.

Patented Mar. 20, 1860.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

D. B. TIFFANY, OF XENIA, OHIO, AND S. W. SOULE, OF MILWAUKEE, WISCONSIN.

MACHINE FOR PRINTING ADDRESSES ON NEWSPAPERS, &c.

Specification of Letters Patent No. 27,580, dated March 20, 1860.

*To all whom it may concern:*

Be it known that we, D. B. TIFFANY, of Xenia, Ohio, and S. W. SOULE, of Milwaukee, in the county of Milwaukee and the State of Wisconsin, have invented a new and Improved Machine for Printing Addresses on Newspapers; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawing, making a part of this specification, in which—

Figure 1 is a longitudinal vertical section of our invention taken in the line *w, w*, Fig. 3. Fig. 2, is a transverse vertical section of ditto, taken in the line *x, x*, Fig. 1. Fig. 3 is a plan or top view of ditto.

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

The object of this invention is to obtain a very simple and efficient device for printing addresses on newspapers or their wrappers, one that may be cheaply constructed, operated by any one of ordinary ability, not liable to get out of repair and will perform the work of addressing the papers much more expeditiously than can be done by hand.

The invention consists in the employment or use of a pressure lever, traveling "form" and peculiar means employed for operating the same, substantially as hereinafter described whereby the desired end is attained.

To enable those skilled in the art to fully understand and construct our invention, we will proceed to describe it.

A, represents a horizontal bed piece at each side of which a cleat *a*, is attached, said cleats forming guides between which a rectangular frame or "chase" B, is placed and allowed to slide freely back and forth.

Within the "chase" B, the addresses *b*, are "set up" in type. The addresses are "leaded" that is to say, lead plates *c*, are inserted between them, and the type of each address rests on a separate bar *d*, said bars resting on longitudinal cleats *e, e*, at the bottom of the "chase" as shown clearly in Fig. 2. The type are firmly secured in the "chase" B, in the usual way and constitute what is technically termed the "form."

Transversely in the bed-piece A, a shaft C, is placed. This shaft has a ratchet D, at one end, and on the shaft at about the center of the bed-piece A, a pinion D', is placed, said pinion extending the whole width of the

type that form the addresses, see Fig. 2. The teeth of the pinion D', project upward a short distance above the surface of the bed-piece A, as shown clearly in Figs. 1 and 2.

F, is a hand lever, one end of which is attached to a fulcrum shaft G, the bearings *f*, of which are on the cleats *a, a*. The lever F, has a bar *g*, attached transversely to its under surface, said bar when the lever is depressed being directly over the type of an address.

One end of the fulcrum shaft G, of lever F, is bent at right angles to the other portion and a loaded pawl H, is suspended to it by a pivot *h*. The weight I, of the pawl H, has a tendency to keep the pawl engaged with the ratchet D.

On the cleats *a, a*, and directly over the bed piece A, a sheet metal plate J, is secured. This plate is only attached to the cleats directly below the bearings of the shaft G, the other portion of the plate being loose.

The operation is as follows:—The "form" being properly inked is placed on the bed-piece A. The operator grasps the lever F, with one hand and raises it and at the same time places a paper on the plate J. The lever F, is then depressed and an address printed on the paper or its wrapper. Each time the lever F, is raised the "chase" B, is fed forward the distance of one address *b*, by means of the pawl H, ratchet D, and pinion D', the latter having its teeth working between the leads *c*, which form a rack, the teeth of the pinion also raising the type of each address so that the same when the impression is given will project through a slot *d*, in the plate J. This will be fully understood by referring to Fig. 1. It will be seen therefore that the pinion D', performs two functions, to wit, that of feeding the "chase" B, along and elevating the type of each address, forming a bed or support for the same while the impression is being given.

Having thus described our invention what we claim as new and desire to secure by Letters Patent, is—

1. The combination of the pressure lever F, and the "chase" B, containing the form; the chase being operated from the lever as shown or in an equivalent way and the pinion D', made to perform the double function specified substantially as and for the purpose set forth.

2. We claim raising or separating the particular line of type forming the address to be used, from the remainder of the type in the chase in the manner set forth or an equivalent manner, for the purpose specified.

3. The sheet metal plate J, or its equivalent for returning the type to their proper positions substantially as specified.

10 4. We also claim a traversing partitioned galley or chase for holding and dividing the

addresses substantially as and for the purpose specified.

In witness that we claim the foregoing we have hereunto subscribed our names in the presence of the subscribing witnesses.

D. B. TIFFANY.  
SAM W. SOULE.

Witnesses:

AMIL RODGERS,  
JAMES KYLE.