

G. Hutchinson.
Press for Printing Addresses.
No 25337. Patented Sept. 6. 1859.

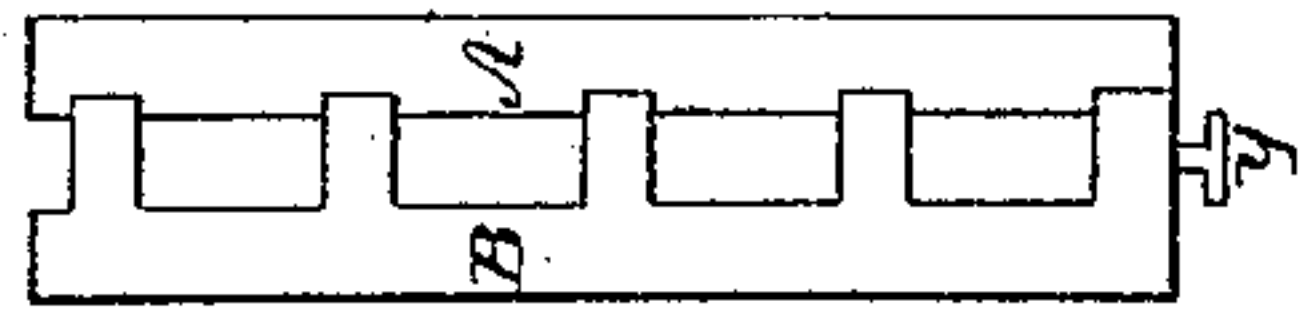


Fig. 5.

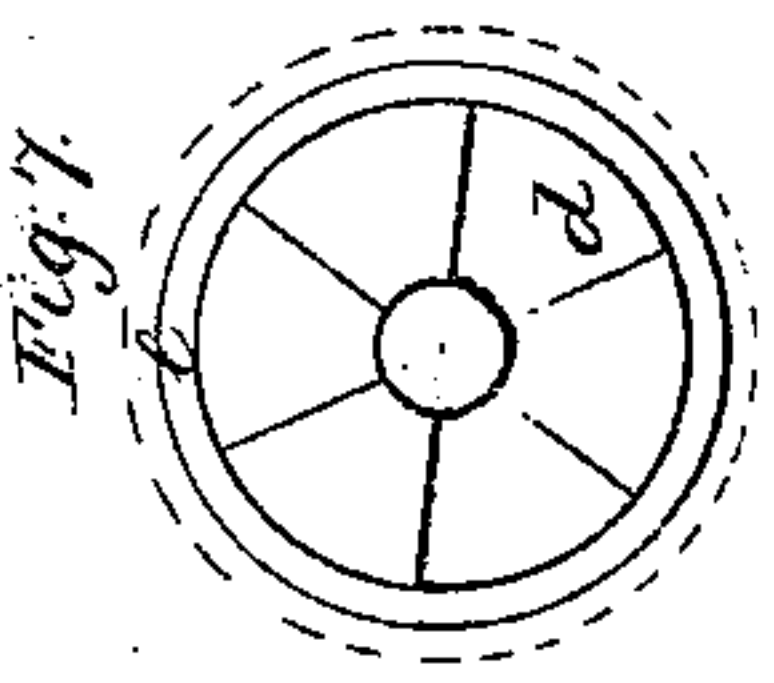


Fig. 7.

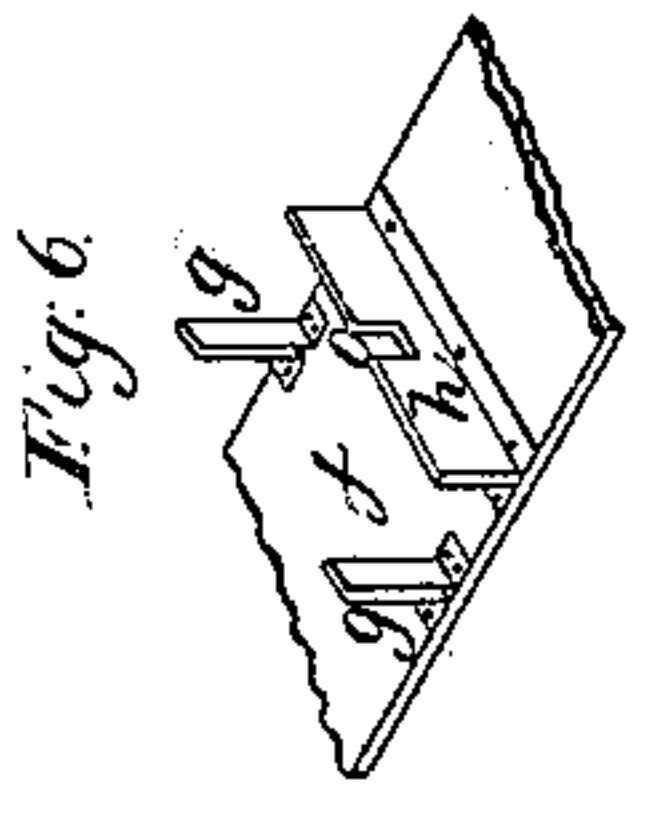


Fig. 6.

Figs. 2 & 3.

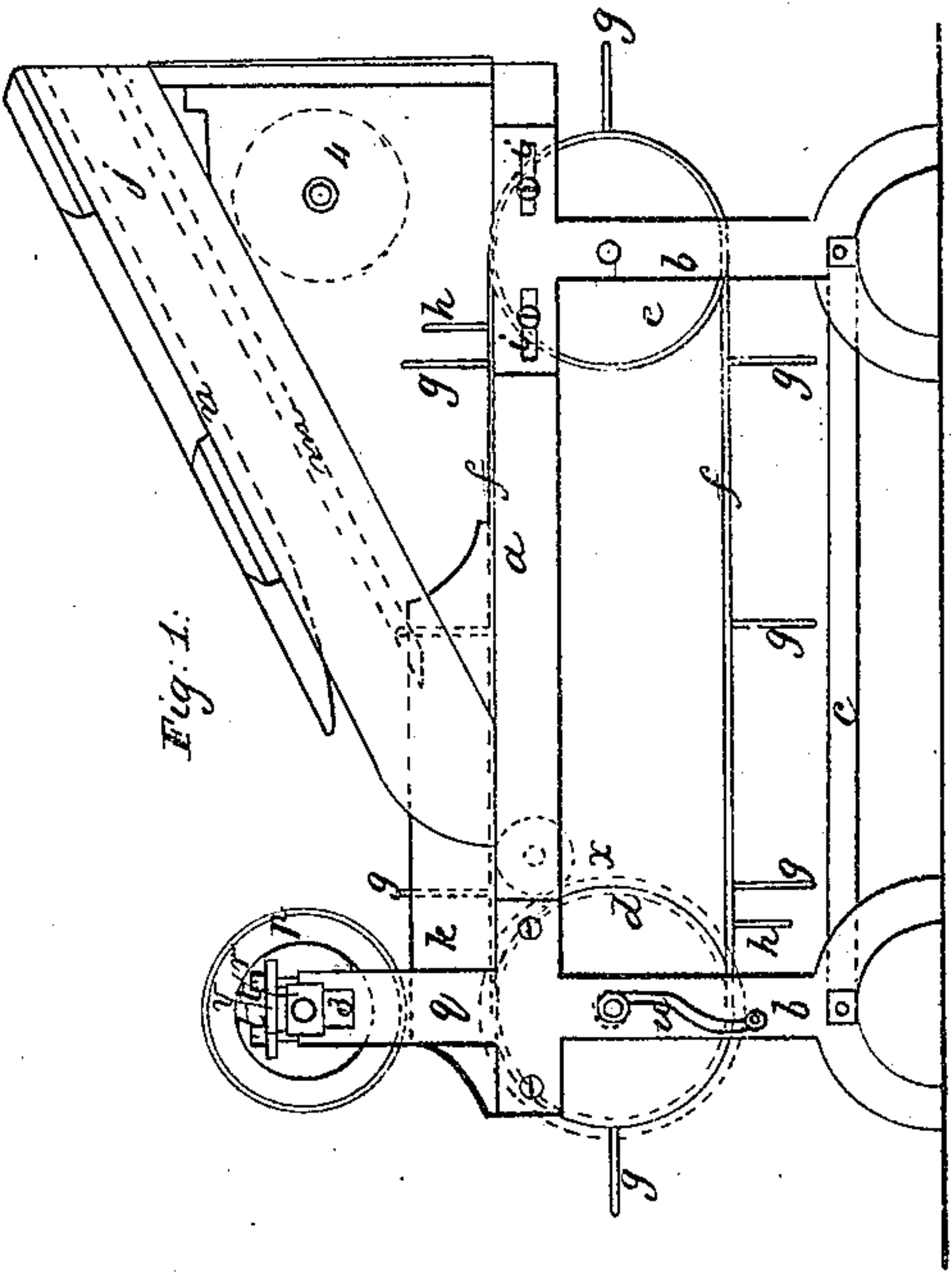
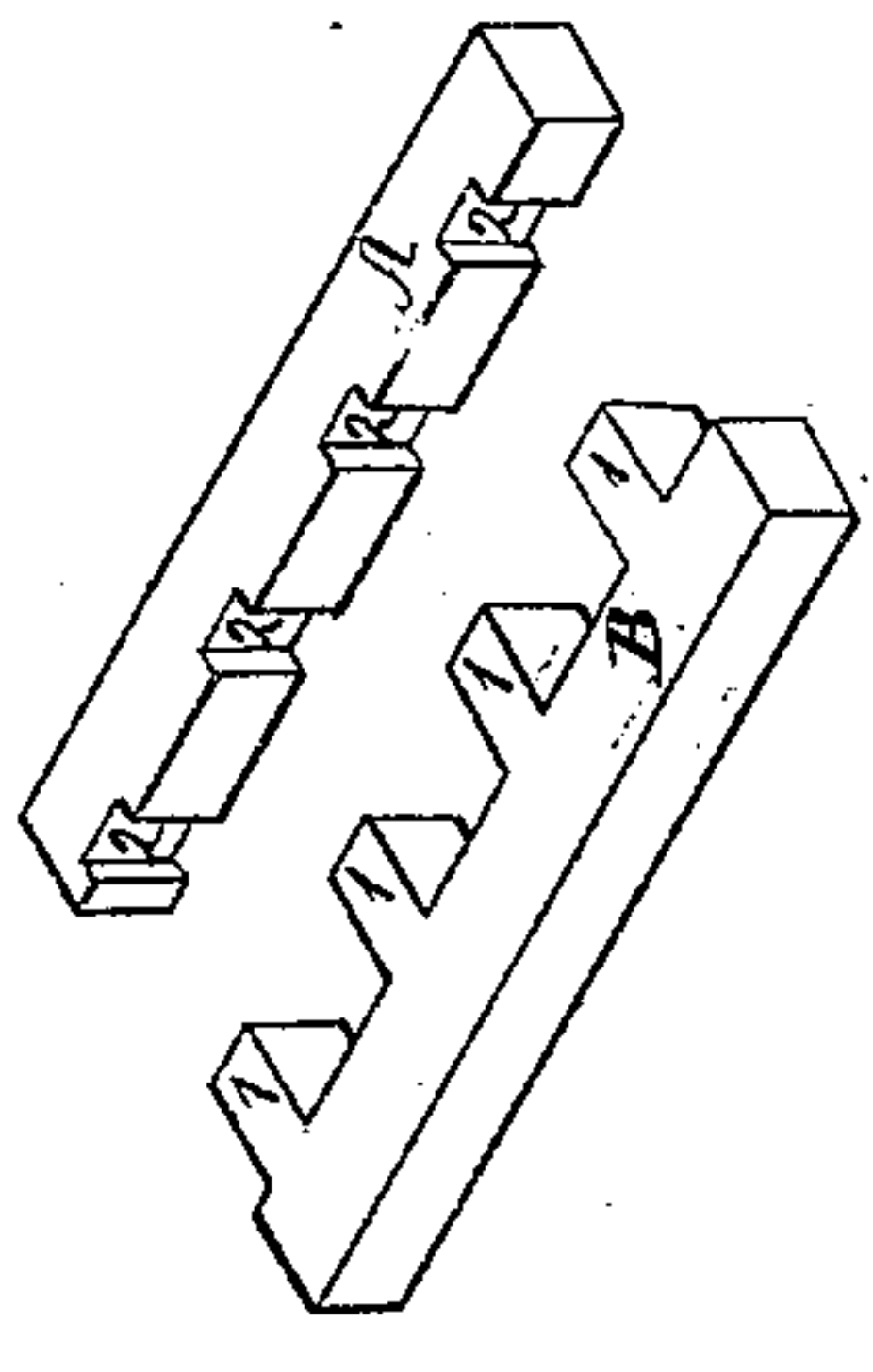


Fig. 1.

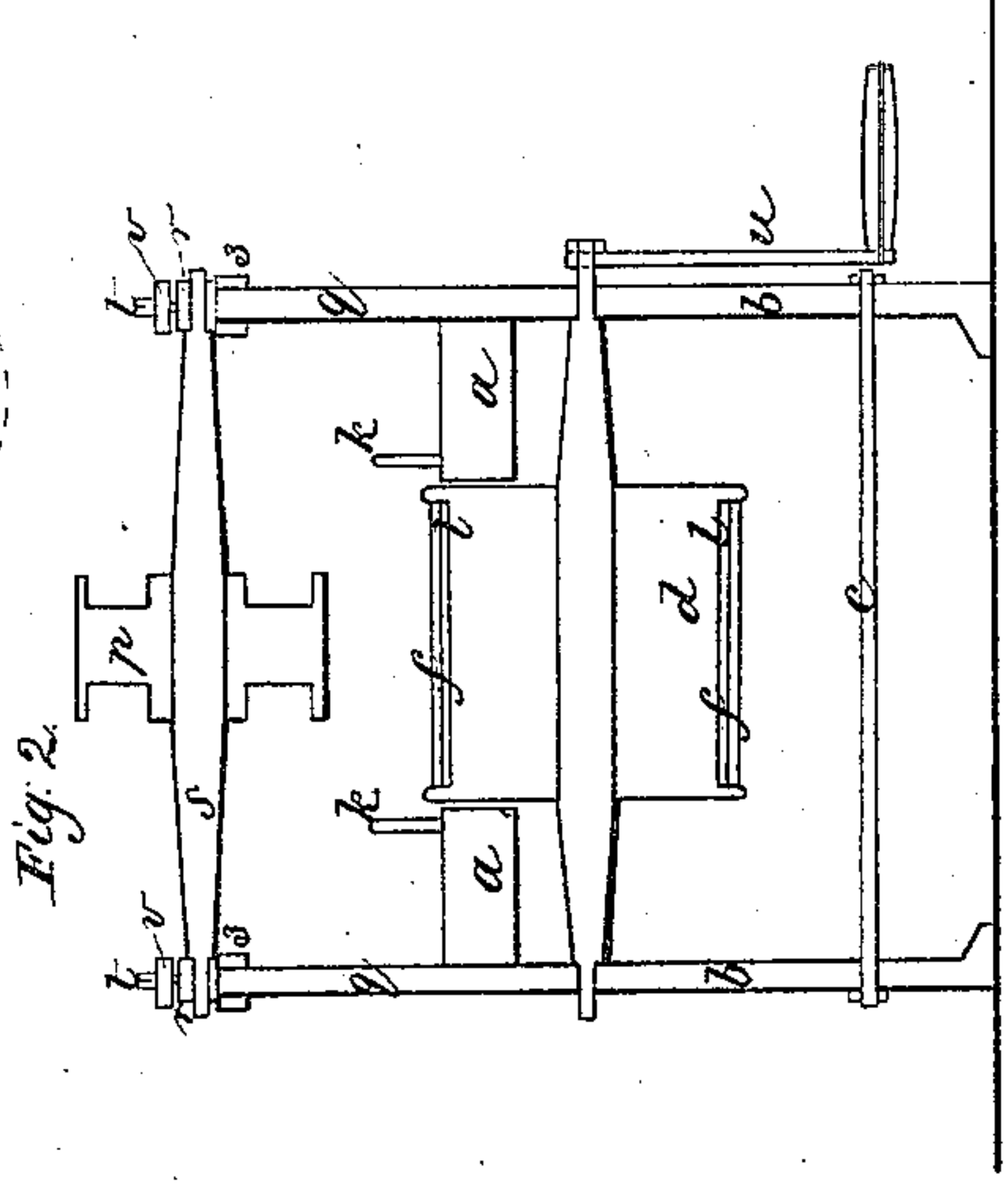


Fig. 2.

Witnesses;
James J. Johnston
George P. Cook

Inventor;
George Hutchinson.

UNITED STATES PATENT OFFICE.

GEORGE HUTCHISON, OF ALLEGHENY, PENNSYLVANIA.

APPARATUS FOR PRINTING THE ADDRESS ON NEWSPAPERS, &c.

Specification of Letters Patent No. 25,337, dated September 6, 1859.

To all whom it may concern:

Be it known that I, GEORGE HUTCHISON, of the city and county of Allegheny and State of Pennsylvania; have invented a new and Improved Press for Imprinting Names and Addresses on Newspapers, Envelops, and Cards; 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, similar letters referring in each of the several figures to similar parts.

The nature of my invention consists in the combination and arrangement of a metallic belt furnished with a series of conveyers, pulleys, press roll, inking roller, type or address frame, and hopper, the whole being combined, arranged, constructed, and operated in the manner hereinafter described and represented.

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

In the accompanying drawings. Figure 1, is a side view of the press. Fig. 2, is a cross section of the front end. Figs. 3, and 4, are perspective views of the two pieces which form the type or address frame. Fig. 5, is a top view of the type or address frame. Fig. 6, is a broken section in perspective of the belt and its conveyers. Fig. 7, is a cut or sectional view of the front pulley.

(a) is the table.

(b) are the pedestals.

(c) are ties or braces of the pedestals.

The pedestals at the back end of table (a) are furnished with slots marked (i) which are used for the purpose of tightening the belt when so desired, which is accomplished by moving the pedestals having the slots toward the back end of the press and securing them by means of screws or bolts.

(g) are the supports of the press roller (p).

(j) is the hopper which is furnished with slides or guides (m and n), the slides (m) prevent the papers, envelops or cards from rubbing on the bottom of the hopper, and the upper slides or guides (n) keep the papers, envelops or cards in their place on the slides or guides (m).

(k) are ways for holding the papers, envelops or cards up off the type frame and type, until they come under the press roller (p), where they receive the impression.

(d and e) are pulleys used for carrying the belt (f).

The pulley (d) is made in sections with the end of the wood toward the periphery, and is bound around with a band of "india rubber" marked (l) or other suitable substance. The mode of making the pulley in sections and banding it with "india rubber" is clearly shown in Fig. 7; the axles of the pulleys (d and e) have their bearings in the pedestals (b).

(r) are the bearings of axle (s) of the press roller (p). The bearings or plumber blocks (r) are regulated by blocks marked (3) and set-screws marked (t); the plumber blocks (r) are held down by a strip of "india rubber" placed between them and the cap marked (v), these strips will allow the press roller to yield to any undue pressure caused by any irregularity in the papers envelops or cards.

(4) is the inking roller which is placed in a suitable frame and arranged above the belt so as to come in contact with the type in the type frame and thereby ink them; there may be two or more of these inking rollers used if so desired.

(f) represents a metallic belt which is furnished with conveyers marked (g) the form of which is plainly shown in Fig. 6. These conveyers are riveted to the belt (f).

(h) is the conveyer for the type frame and is furnished with a notch marked (o); the T shaped lug (y) fits into the notch (o) of conveyer (h), by this arrangement the type frame is always held in proper position with the conveyers (g), thereby printing the address name &c. on the papers envelops or cards in the desired place, presenting at all times a sameness in the work.

It will be observed that the belt may be made of leather or any other suitable material—but experience has demonstrated the fact that a metallic belt made of sheet brass, copper or steel, is the best, as they are not liable to stretch and thereby change the relationship of the conveyers with the type frame. The type frame is made of two pieces of the form represented in Figs. 3 and 4 and marked (A and B), the projections (1) on the piece (B) fit into the notches (2) of the piece (A); and are held together by screws or other device. When the pieces (A and B) are united they form a frame like that represented in Fig. 5. It will be readily seen that this mode of con-

ructing the type frame is simple, cheap and strong, and may be made by suitable machinery or by hand labor.

The speed of the press may be regulated by the use of suitable gearing, if a slow speed be desired a pinion and a large wheel may be arranged as indicated by the red dotted lines marked (*x*)—the pinion being the driver; if a fast motion is desired change the gearing,—and make the large wheel the driver and the desired end will be accomplished.

The operation of my improvement is as follows by placing the type frame on the belt (*f*) between the conveyers (*g*) with the lug (*y*) placed in the notch (*o*) of the conveyer (*h*), and having all the other parts arranged as seen in Fig. 1. The papers, envelopes or cards are placed in at the upper end of the hopper (*j*) between the guides *m* and *n*) they pass down on the guide or slide (*m*) to the ways (*k*), now, by turning the crank (*u*) the type frame and belt are carried forward toward the press roller (*p*) the conveyers (*g*) will carry the papers, envelopes or cards along on the ways (*k*) and as they pass under the press roller (*p*) the name, address, &c. will be printed on the paper, envelop or card, which are delivered from the press at the front end into some suitable receiving box or vessel. The type

frames are removed after they pass the press roller (*p*) to make room for others. The table may be extended beyond the press roller and the pulley (*d*) if so desired.

Having thus described the nature, construction and operation of my improvement, what I claim as of my invention and desire to secure by Letters Patent of the United States is.

1. The inclined hopper (*j*) with the slides or guides (*m* and *n*), in combination with the ways (*k*) and conveyers (*g*) on the belt (*f*), as herein described and for the purpose set forth.

2. The use of a metallic belt furnished with the conveyers, (*g* and *h*) as herein described and for the purpose set forth.

3. The arrangement of the pulleys (*d* and *e*), the belt (*f*), press roller (*p*), and inking roller (4), as herein described and represented.

4. The use of the lug (*y*) on the end of the type frame, when used in connection with the notch (*o*) in the conveyer (*h*), as herein described and for the purpose set forth.

GEORGE HUTCHISON.

Witnesses:

GEORGE P. STECK,
JAMES J. JOHNSTON.