

(No Model.)

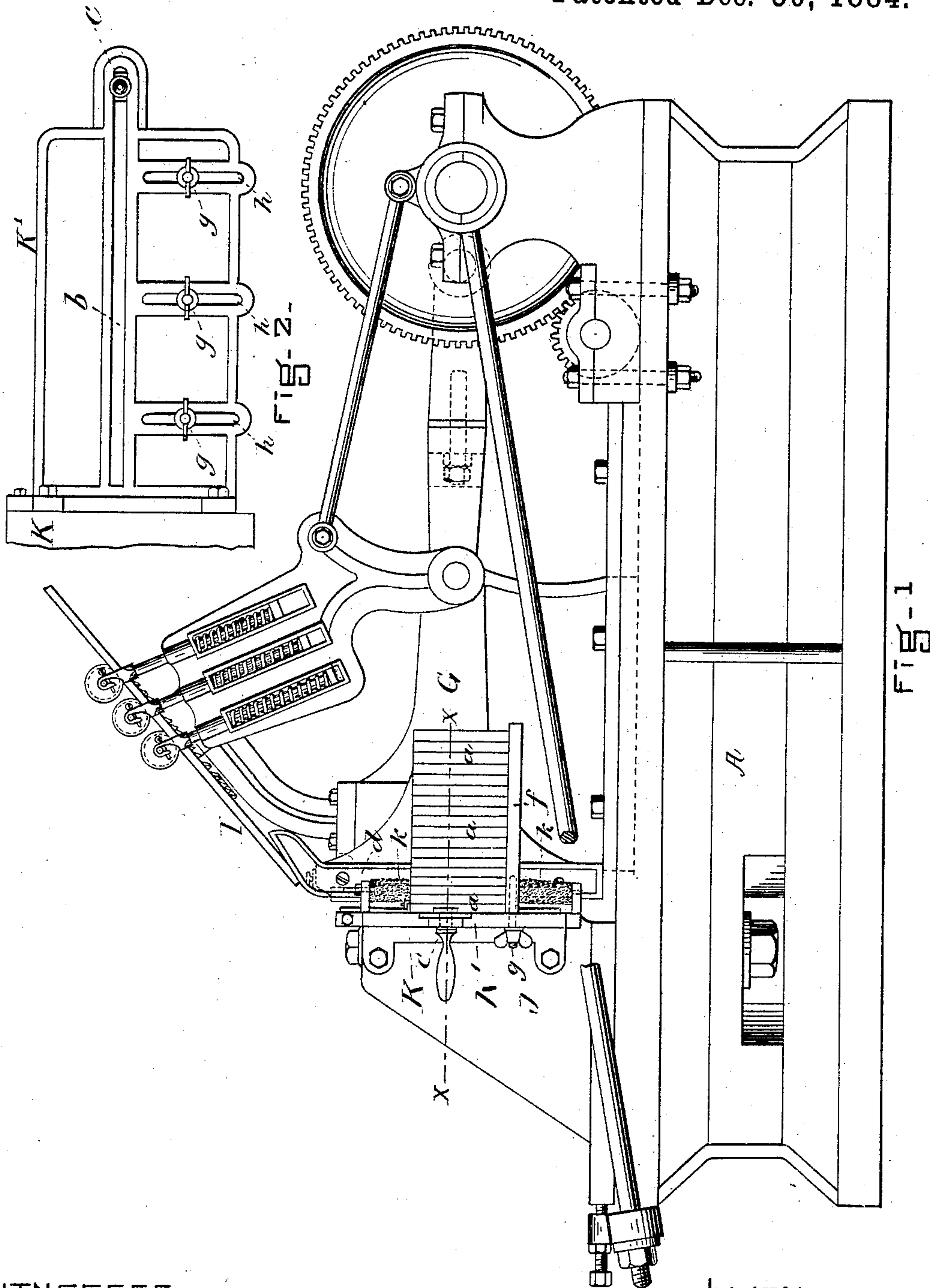
2 Sheets—Sheet 1.

G. W. PROUTY.

PRINTING PRESS.

No. 310,150.

Patented Dec. 30, 1884.



WITNESSES

A. L. White
Joseph Leutner

INVENTOR

Geo. W. Prouty
by Wright & Brown
Attys.

(No Model.)

2 Sheets—Sheet 2.

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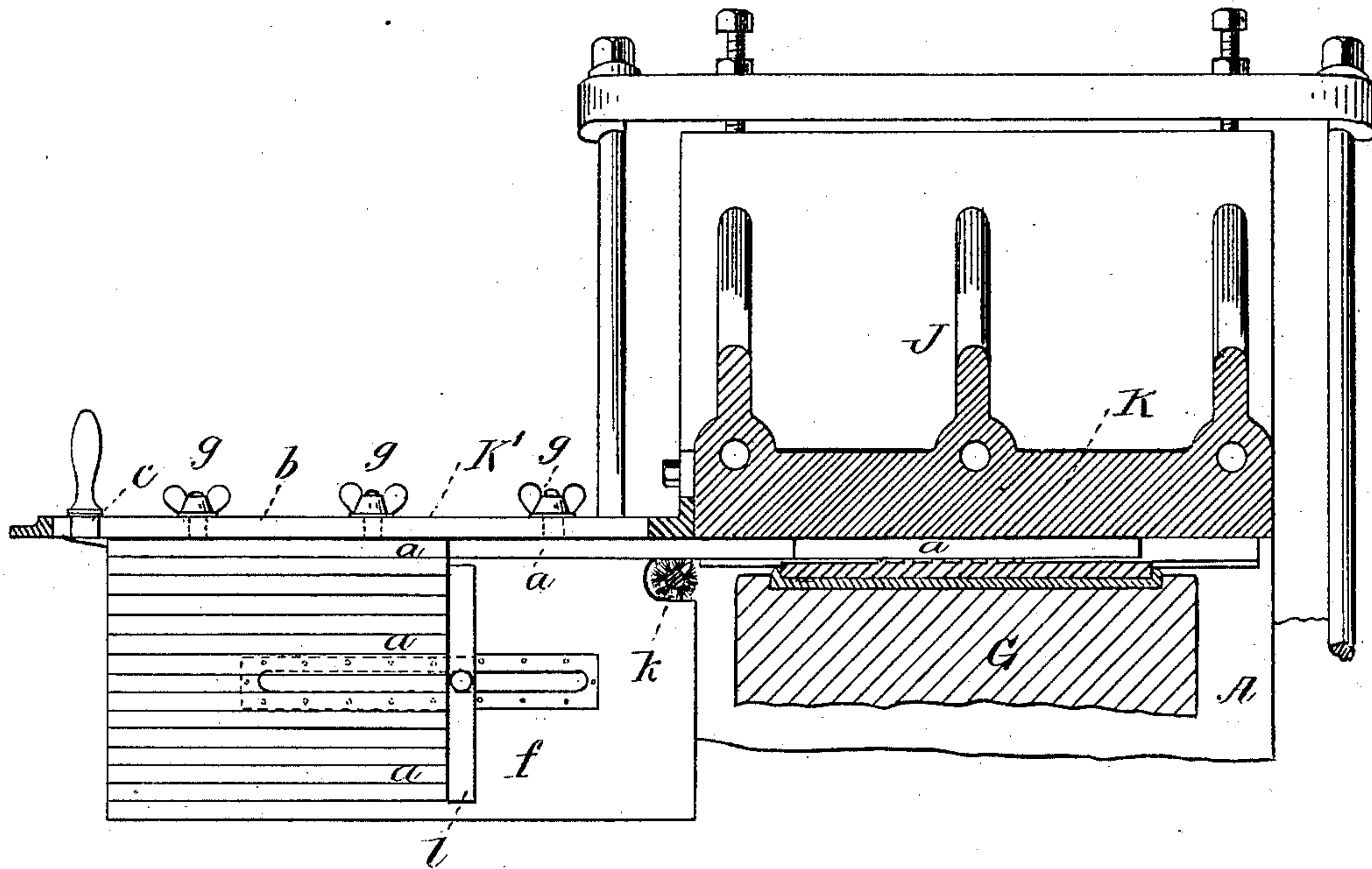


FIG. 3.

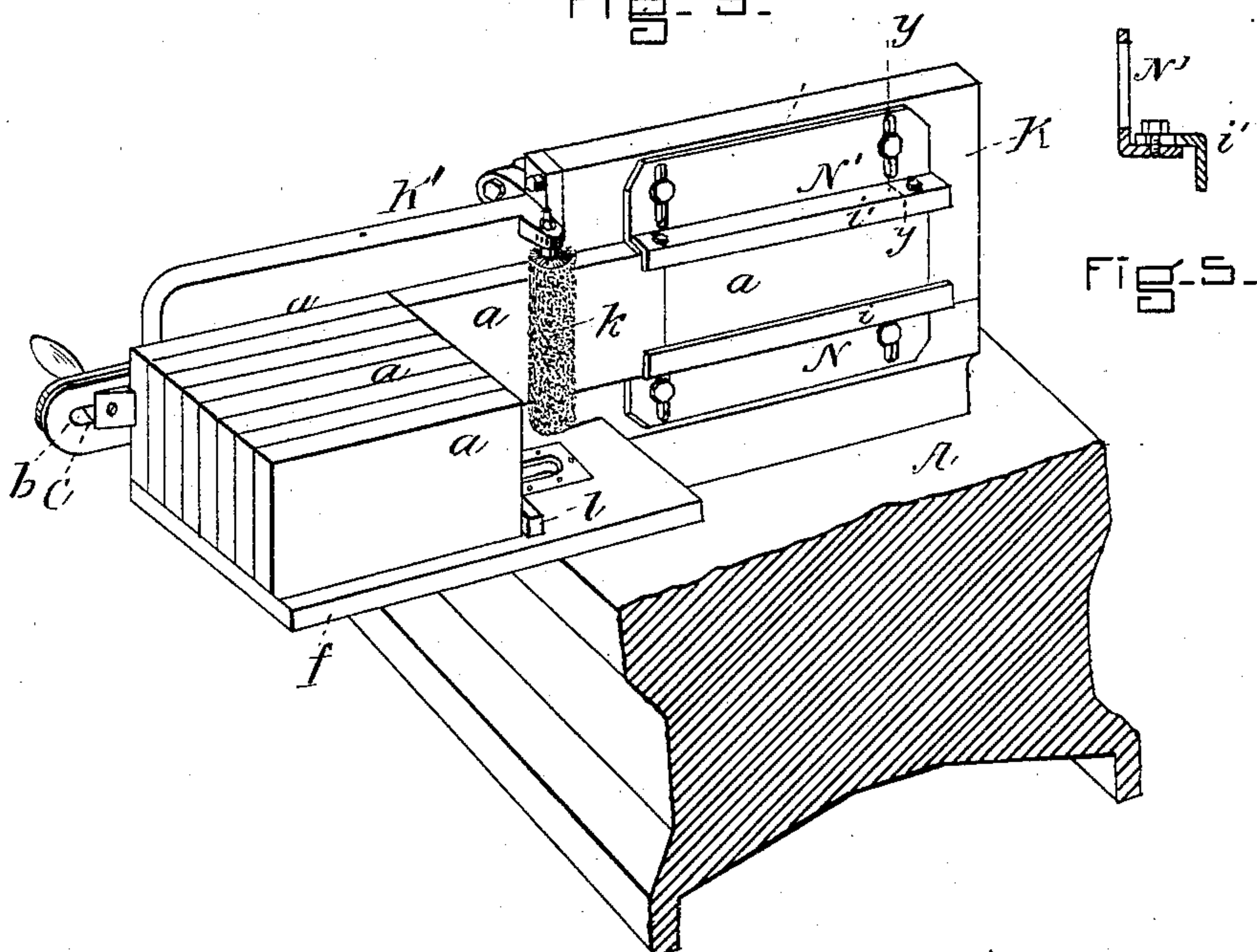


FIG. 4.

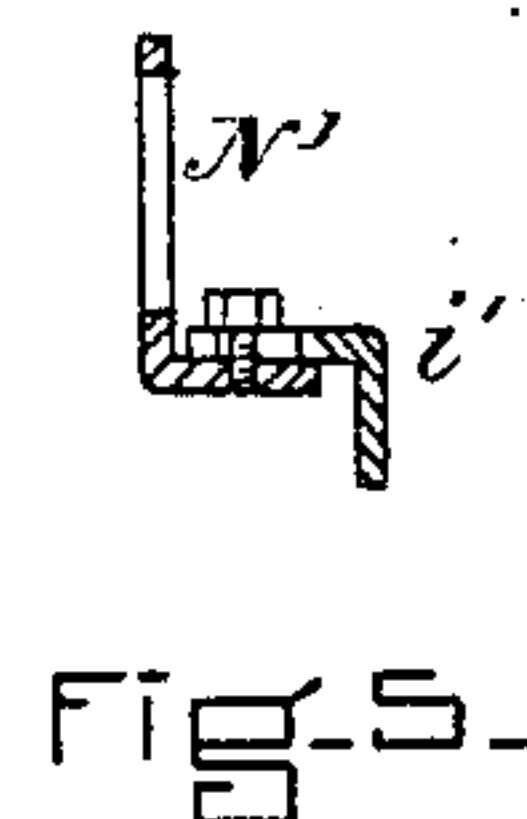


FIG. 5.

WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE W. PROUTY, OF BOSTON, MASSACHUSETTS.

PRINTING-PRESS.

SPECIFICATION forming part of Letters Patent No. 310,150, dated December 30, 1884.

Application filed October 8, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. PROUTY, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Printing-Presses, of which the following is a specification.

This invention relates to printing-presses adapted especially to printing upon wooden strips or boards to be made into boxes, and has for its object, first, to provide improved means for supporting a quantity of the boards in convenient relation to the platen and type-bed, and for guiding said boards to the position they occupy on the platen when they receive the impression from the type; secondly, to provide improved means for brushing or cleaning the boards before they are printed upon; and, thirdly, to adapt the platen to receive and hold for the action of the type a piece of board of any desired thickness.

To these ends my invention consists, first, in the provision of an extension of the platen in a lateral or horizontal direction beyond the type-bed, in combination with a table adjustable vertically thereon, and a guide upon the platen, also adjustable vertically, for supporting and guiding a piece of board laid against it to position between the platen and type-bed; secondly, in the combination, with the platen of a printing-press, of a lateral or horizontal extension of said platen beyond the type-bed, provided with a longitudinal slot, a table secured to and adjustable vertically upon said extension, a guide secured to and adjustable vertically upon said platen, and a dog adapted to be reciprocated in the slot in said extension to feed the board to be printed; thirdly, in the provision of a brush adapted to bear against each board as it is being moved along the extension and remove dust, &c., from the surface to be printed, all of which I will now proceed to describe.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a side elevation of a printing-press provided with my improvements. Fig. 2 represents a rear elevation of the extension. Fig. 3 represents a section on line *xx*, Fig. 1. Fig. 4 represents a perspective view of a portion of the press-bed, the platen and my improved devices applied thereto. Fig. 5 represents a section on line *yy*, Fig. 4.

The same letters of reference indicate the same parts in all the figures.

I have shown my present improvements applied to the printing-press shown and described in Letters Patent of the United States No. 291,002, granted to me December 25, 1883.

In the drawings, A represents the bed of the press. G represents the type-bed, which is reciprocated on guides or ways on the bed A, and is provided with suitable type. I represents the ink-distributing plate. *d* represents one of the bearers which control the position of the inking-rolls as they pass over the type-form from and to the plate I; and K represents the fixed platen secured to the platen support or head J, which is suitably secured to the bed A.

The construction and operation of the machine thus far described are the same as in the machine described in my above-named patent, to which reference is made for a fuller description.

In carrying out my invention, I provide the platen K with an extension, K', which projects in line with the platen to one side of the machine, as shown in Figs. 3 and 4, so that a board, *a*, laid against its surface and moved thereon, will be guided to the surface of the platen proper. The extension has a longitudinal slot, *b*, in which is a slide, *c*, formed at one side of the extension—as a dog—to engage with the rear edge of a board, *a*, and the opposite side as a handle, adapted to be grasped by the attendant, who is enabled by means of said slide to force the boards *a* along the extension to the platen. I also provide a table, *f*, adapted to support a series of boards, *a*, said table being secured to the extension K' by means of bolts *g*, passing through vertical slots *h* in the extension, and provided with clamping-nuts, said slots and nuts enabling the table *f* to be vertically adjusted and secured at any point within its range of adjustment. This table enables a supply of the boards to be kept in convenient position, the operator being able to readily replace each board removed by the slide *c* by moving the series of boards toward the extension K', using one hand for this purpose and the other hand to operate the slide *c*. The vertical adjustability of the table *f* enables it to support boards of any desired width in the proper relation to the platen and type-bed. The platen K is provided with two flanged or

lipped guides, N and N', as in my patent before referred to, the guide N serving to support a board, *a*, in the desired position on the platen, and the lips *i* and *i'* of the guides serving to guide the board to position when being fed, and to hold it in an upright position. Said guides are also adjustable toward or from each other, according to the width of the board to be printed, as shown in said patent. In addition to said adjustment, I make the lips *i i'* adjustable toward and from the surface of the platen, to enable said lips to receive and hold a board of any desired thickness. To this end I make the lips *i i'* separate from the parts of the guides that are attached to the platen, and secure them to the last-named parts by bolts passing through slots in said lips, as shown in Figs. 4 and 5.

k represents a brush secured to ears on the extension K' in such position that it will bear against the outer surface of each board as it is moved along said extension on its way to the platen, and remove therefrom any dust or loose dirt that may adhere thereto, so that the board will present a clean surface to the type. The brush is preferably secured rigidly to its supports, but may be loosened and turned from time to time, as it becomes worn, to present fresh portions to the board.

The table *f* may have an adjustable gage, *l*, to keep the ends of the boards *a* in line, as shown in Figs. 3 and 4.

I do not limit myself to the application of my present improvements above described to the press described in my said former patent,

it being obvious that they may be used with other presses of the same general class without departing from the spirit of my invention.

The brush may be connected to the platen proper, instead of the extension, and, in fact, 40 may be used in a press in which the extension is not employed.

I claim—

1. In combination with the platen of a printing-press, the horizontal extension K', the table *f*, adjustable vertically on said extension, 45 and adapted to support a series of boards resting upon their edges, and a guide secured to the platen in line with said table and adjustable vertically upon the platen, substantially 50 as and for the purposes described.

2. In combination with the platen of a printing-press, the horizontal extension K', provided with the slot *b*, the vertically-adjustable table *f*, the vertically-adjustable guide N, and 55 the feed dog or slide *c*, arranged and adapted to be reciprocated in the slot *b*, substantially as and for the purposes described.

3. The combination, with the platen and its extension, of the brush secured to ears on the 60 extension, and adapted to bear on the boards moving along said extension, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 5th day of October, 65 1883.

GEORGE W. PROUTY.

Witnesses:

O. F. BROWN,
A. L. WHITE.