(Model.) 2 Sheets—Sheet 1.

F. M. BROOKE.

ATTACHMENT FOR PRINTING PRESSES.

No. 288,404. Patented Nov. 13, 1883.

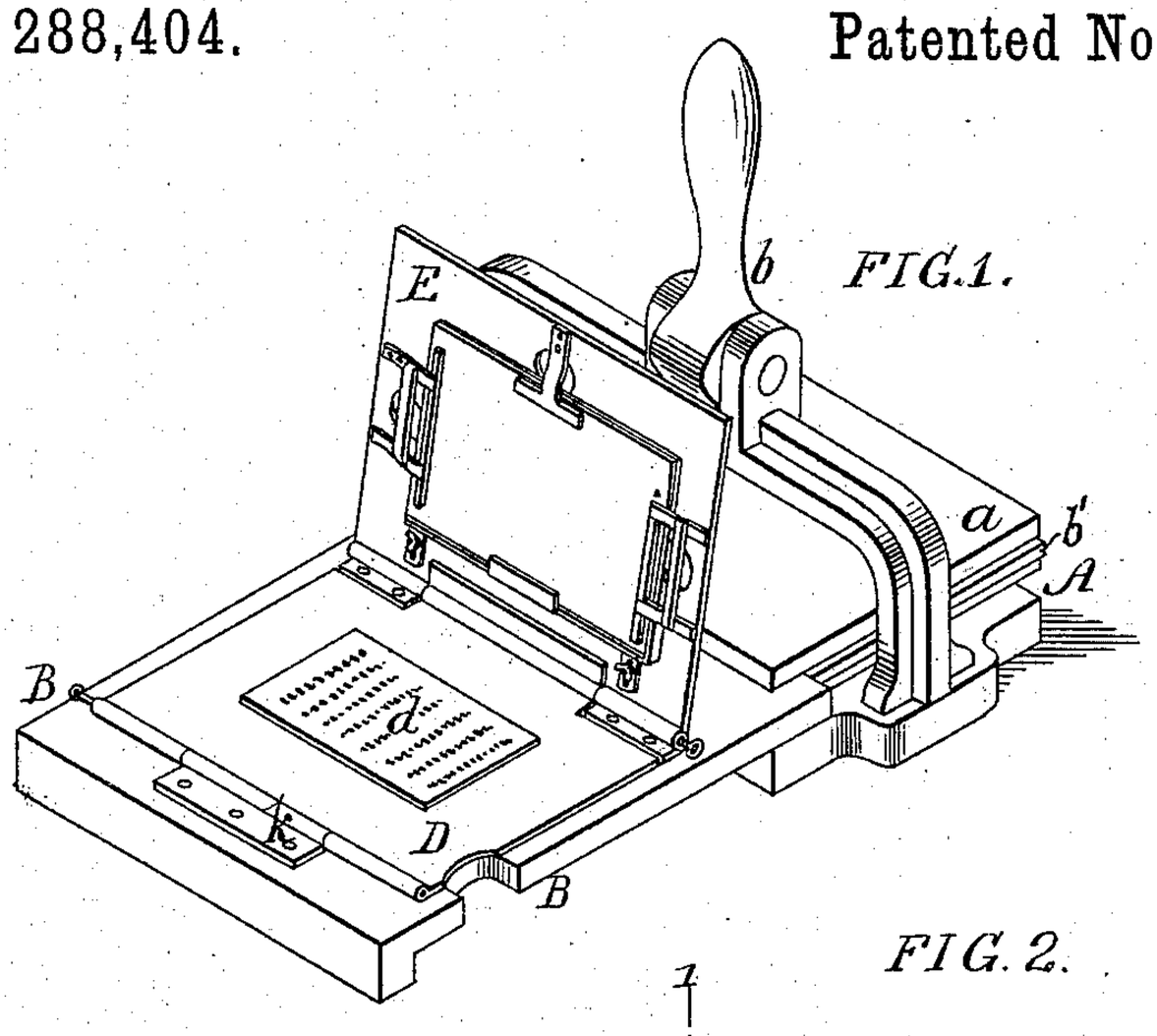
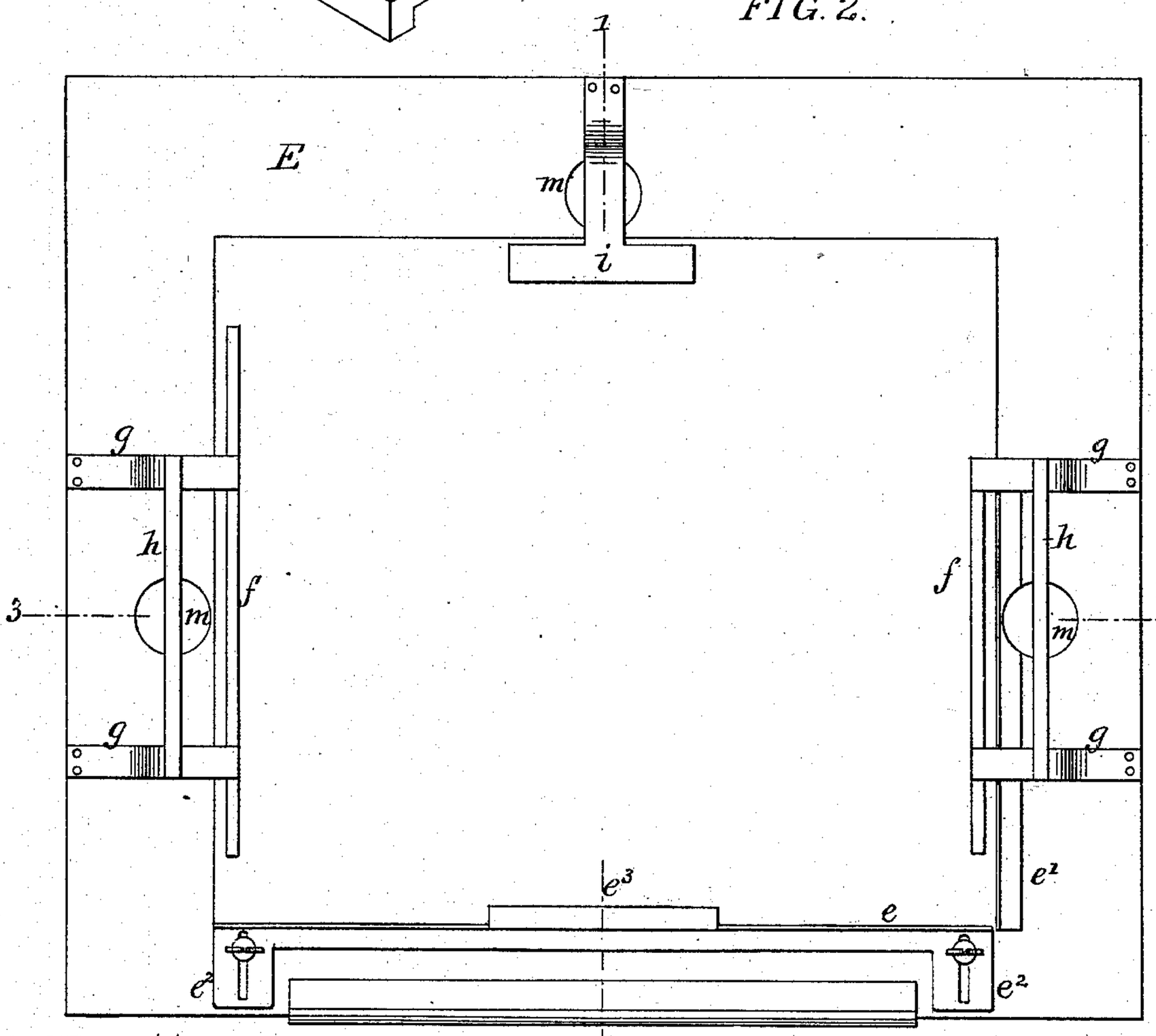


FIG. 1.

FIG. 2.



WITNESSES:

James J. Tobin

Harry Drury

INVENTOR.

Francis M. Brooke

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Howson & Sons

(Model.) 2 Sheets--Sheet 2.

F. M. BROOKE.

ATTACHMENT FOR PRINTING PRESSES.

No. 288,404. Patented Nov. 13, 1883.

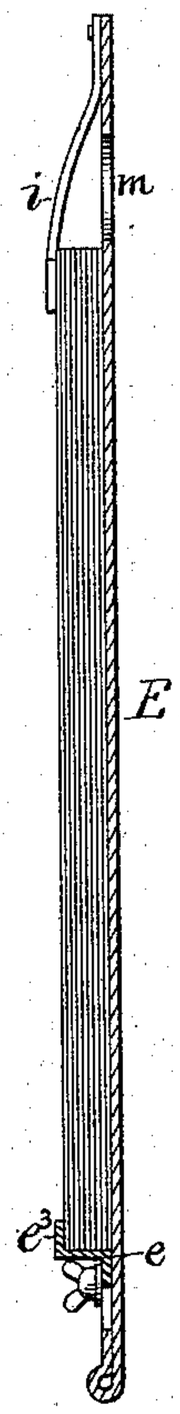
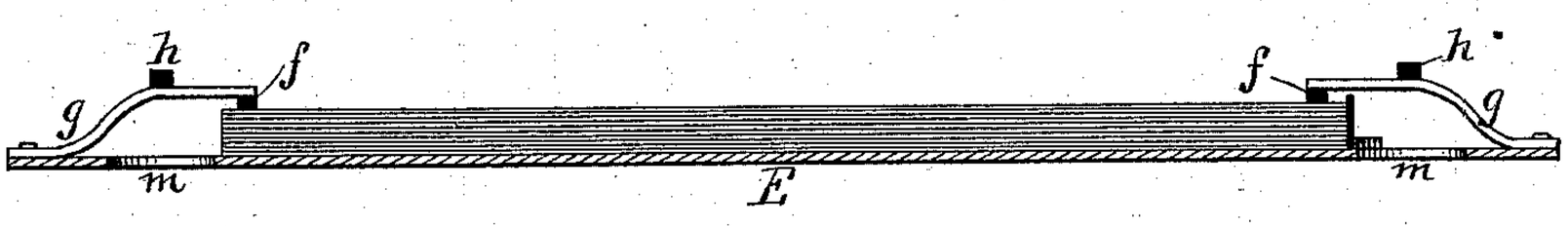


FIG. 3.

FIG. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANCIS M. BROOKE, OF PHILADELPHIA, PENNSYLVANIA.

ATTACHMENT FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 288,404, dated November 13, 1883.

Application filed January 15, 1883. (Model.)

To all whom it may concern:

Be it known that I, FRANCIS M. BROOKE, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Attachments for Printing-Presses, of which the following is a specification.

The object of my invention is to provide a manifold or other printing press with means whereby several sheets of paper may be held in position for printing, so that when one sheet has been printed and removed another sheet is exposed to be printed without having first to adjust it in position.

In the accompanying drawings, Figure 1, Sheet 1, is a perspective view of an ordinary manifold printing-press provided with my attachment; Fig. 2, a plan view of the attachment drawn to an enlarged scale. Fig. 3, Sheet 2, is a section on the line 1 2, Fig. 2; and Fig. 4 is a section on the line 3 4, Fig. 2.

The press A may be of any ordinary construction. In the drawings I have illustrated a form in which the platen *a* is adapted to be depressed by a cam-lever, *b*, and raised by a spring.

B is the sliding bed, adapted to guides *b'* on the bed-plate of the press, so that it can be inserted under the platen or withdrawn therefrom.

On the center of the sliding bed B is laid the printing-surface *d*, which is held down at its edges by an open rectangular frame, D, hinged to the bed B at *k*, the printing surface being backed up, so that it will be some distance above the level of the frame.

A plate, E, is hinged to the bed B at the edge of the plate D, opposite the hinge *k*, and is preferably provided with a detachable hinge-pin. To the face of this plate E are secured two guide-flanges, *e e'*, at right angles to each other, one or both of these flanges being provided with slotted lugs e^2, to permit of their adjustment on the face of the plate to suit the size of the sheets to be printed. The flange *e* is provided with a projecting lip, e^3, to assist in retaining the sheets of paper placed against the flanges.

To the face of the plate E, on the side opposite the flange *e*, is secured an elastic retaining-clip, *i*, the remaining edges of the sheets of paper being held by spring-clips, which, as shown in Figs. 2 and 4, are composed of springs *g g*, provided at their outer ends with strips *f f*. Cross-bars *h* are secured to the springs *g*, whereby the clips may be raised to free the sheets of paper, or for the insertion of fresh sheets, and immediately below each of the cross-bars is an opening, *m*, for the introduction of the finger or thumb of the operator, in order to raise the clips.

When the printing-surface has been put in place and clamped down by the frame D, a number of sheets of paper are placed in position on the plate E and held down by the clips, as shown in Figs. 3 and 4. The plate, with the sheets of paper clamped thereto, is then turned down on its hinge onto the printing-surface and the sliding bed B pushed on its guides underneath the platen, which is then forced down by the cam-lever *b*, so as to press the paper into close contact with the printing-surface, thereby producing the desired impression. The pressure on the platen is then relieved, the sliding bed withdrawn, the plate E raised, as shown in Fig. 1, and the uppermost sheet of paper carrying the impression removed, the operation being repeated until all the sheets in the pile have been printed. A new supply of sheets can then be inserted and the printing continued, as before.

I claim as my invention—

1. The combination of a press, A, and sliding bed B, carrying a printing-surface, with a plate, E, hinged to the said bed, and carrying clips, substantially as described, for retaining a number of sheets of paper to be printed.

2. The combination of the bed carrying a printing-surface, with a plate, E, having guide-flanges *e e'* at right angles to each other, and clips for opposite ends of the sheets, substantially as set forth.

3. The combination of the bed carrying a printing-surface, with a plate, E, having openings *m*, and paper-retaining clips immediately over said openings, as and for the purpose described.

4. The combination of the bed carrying a printing-surface, with a plate, E, having paper-retaining clips composed of springs *g*, strips *f*, and cross-bars *h*, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANCIS M. BROOKE.

Witnesses:
THOMAS DUGAN,
HENRY HOWSON, Jr.