T. H. Mead

Printing Press Fly Frame.

No. 87695. Patented Mar. 9. 1869.

Fig. 1.

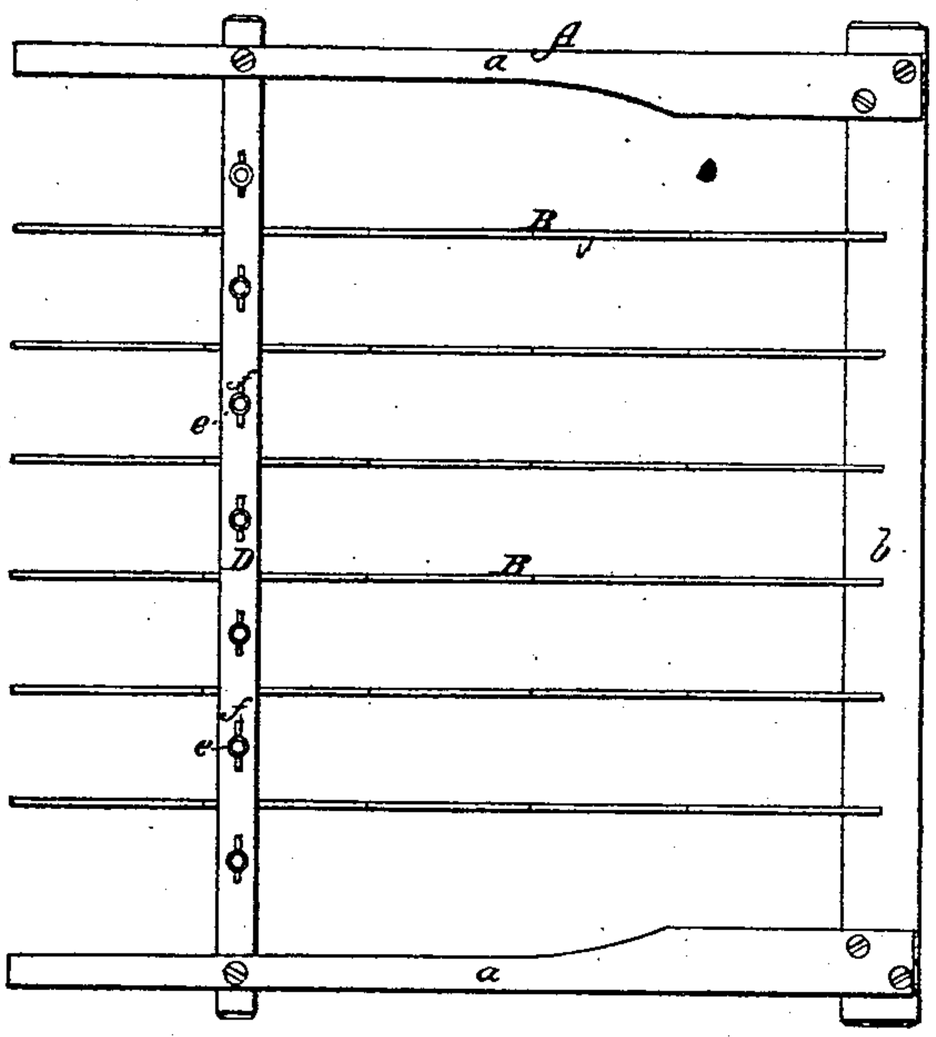

Fig. 2.

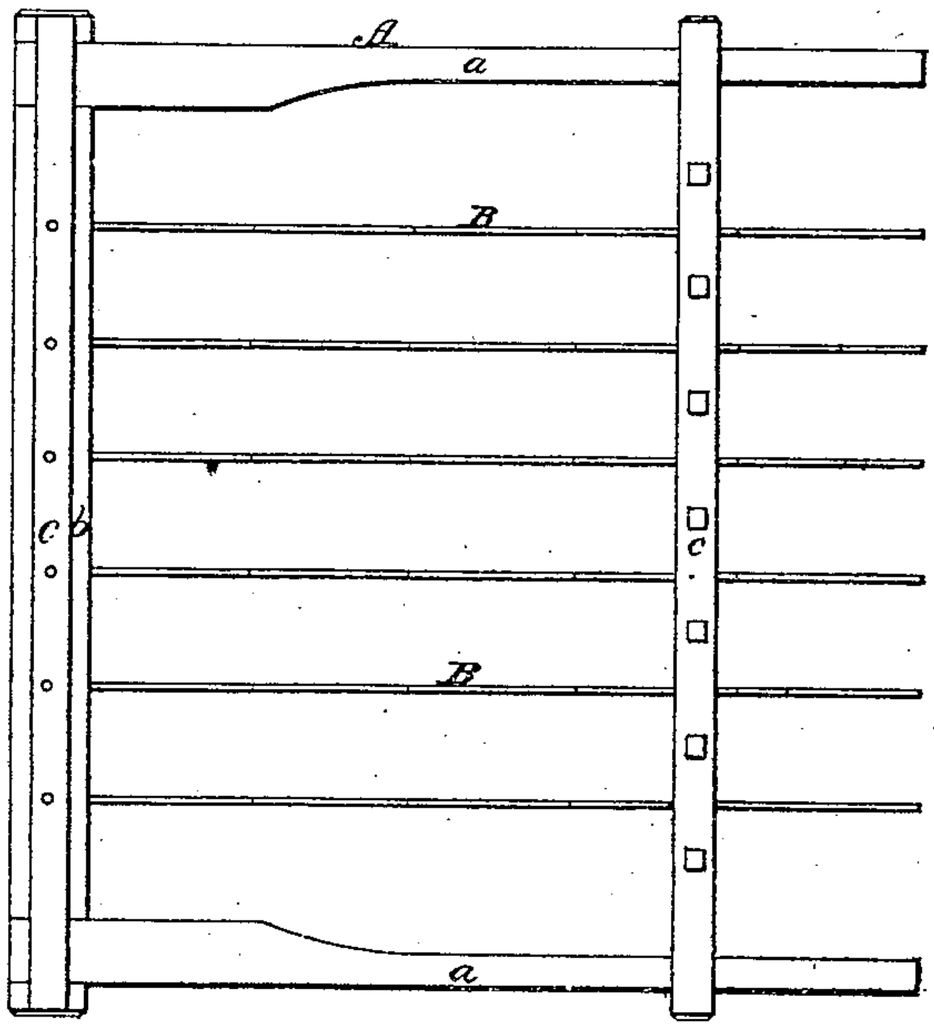

Fig. 4.

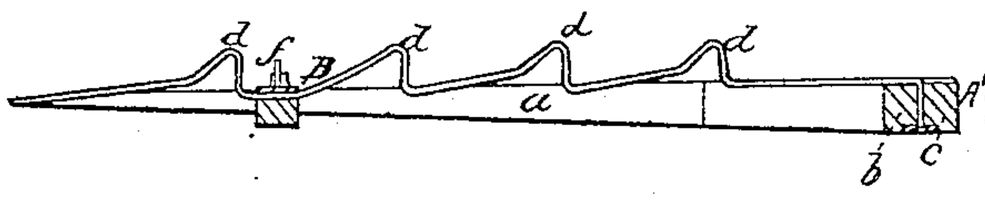

Fig. 3.

Witnesses,

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UNITED STATES PATENT OFFICE.

THEODORE H. MEAD, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO R. HOE & CO., OF NEW YORK, N. Y.

IMPROVEMENT IN PRINTING-PRESS FLY-FRAMES.

Specification forming part of Letters Patent No. **87,695**, dated March 9, 1869.

To all whom it may concern:

Be it known that I, THEODORE H. MEAD, of Boston, in the county of Suffolk and State of Massachusetts, have made a new and useful invention having reference to the Fly of a Printing-Press; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 an under-side view, Fig. 3 an end view, and Fig. 4 a vertical section, of a fly containing the said invention.

In carrying out my improvement I provide each of the fingers which are connected with the fly-frame with a series of blunt or rounded projections for a sheet of paper to rest and slide on when the fly may be in operation, and I construct each of the said fingers of a single piece of wire bent in the manner as represented in the drawings, so as to form it with such a series of projections or bearings for the sheet of paper to rest on. Furthermore, I apply each of the fingers to the fly-frame by a pivot at one end of the arm and by a clamp or its equivalent near the other end of the arm, in order that the arms may be adjusted so as to clear them from the tapes or tape-wheels of the press when the fly may be in use. I also combine with the several fingers a metallic electrical conductor, such being to convey away from them the electricity which, generated in the sheet of paper, renders such liable to adhere to the fingers while the fly may be in use.

In the drawings, A denotes the frame of the fly, it being composed of two side bars, *a a*, and two connecting-bars, *b c*.

B B B, &c., are the sheet-supporting fingers, each consisting of a piece of metallic wire bent so as to form blunt or rounded projections *d d d d*, arranged at, or about at, equal distances apart. Each of the fingers B is pivoted to the back bar of the fly-frame, or extends through it and against a strip, C, of metal fixed to the under side of the said bar. When the fly-frame is in use the said strip C should have a metallic chain or some other electrical conductor continued from it to the floor or ground on which the press may rest, the same being to convey away the surplus electricity which is liable to be generated in the paper and cause it to adhere to the wires or fingers of the fly-frame. Each of such wires or fingers B passes between the front bar, *c*, of the frame A and a clamp-bar, D, which rests on the wires, and is held down by means of a series of clamp-screws, *e*, and nuts *f*. The screws go through the bar *c* and between the several wires or fingers B, and have nuts applied to them above the clamp-bar, the whole being as represented. By raising the clamp-bar either of the fingers B may be moved laterally, and it may also be clamped in postion by setting down the nuts on each side of it.

Heretofore in the construction of a printing-press fly it has been customary to make it of a series of plain or straight and parallel bars so formed that a sheet of paper, when on the fly-frame, would rest on, or about on, the entire underlying surface of each of the bars. Thus the sheet of paper, by being exposed to the action of so great a surface, was very apt to adhere to it, and would not freely slide on the fly, and the fly would be liable to get more or less covered with printing-ink offset from the sheet; but by having the sheet rest on the blunt extremities of several small projections, instead of on continued surfaces, the fly will operate to better advantage, and with little or no danger of adhesion of the paper to it and much less chance of inking the sheet.

I therefore make no claim to a fly of which each of its sheet-supporting fingers is simply a straight bar or strip of wood or metal.

I claim as my invention the following—that is to say:

1. A printing-press fly having each of its series of paper-supporting fingers provided or formed with a series of blunt or rounded projections for the sheet of paper to rest on and be discharged from while the fly may be in use.

2. The combination of the paper-supporting fingers and the fly-frame with devices, substantially as described, by which the lateral adjustment of each of the fingers and its fixation in position may be accomplished, as set forth.

3. The combination and arrangement of the metallic strip C or electrical conductor with the fly-frame and its series of sheet-supporting bars, substantially as described.

THEODORE H. MEAD.

Witnesses:

R. H. EDDY,

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