(No Model.)

T. HANNIGAN.

DEVICE FOR JOGGING OR EVENING SHEETS OF PAPER ON FLY TABLES OF PRINTING PRESSES.

No. 365,004. Patented June 14, 1887.

Fig. 1.

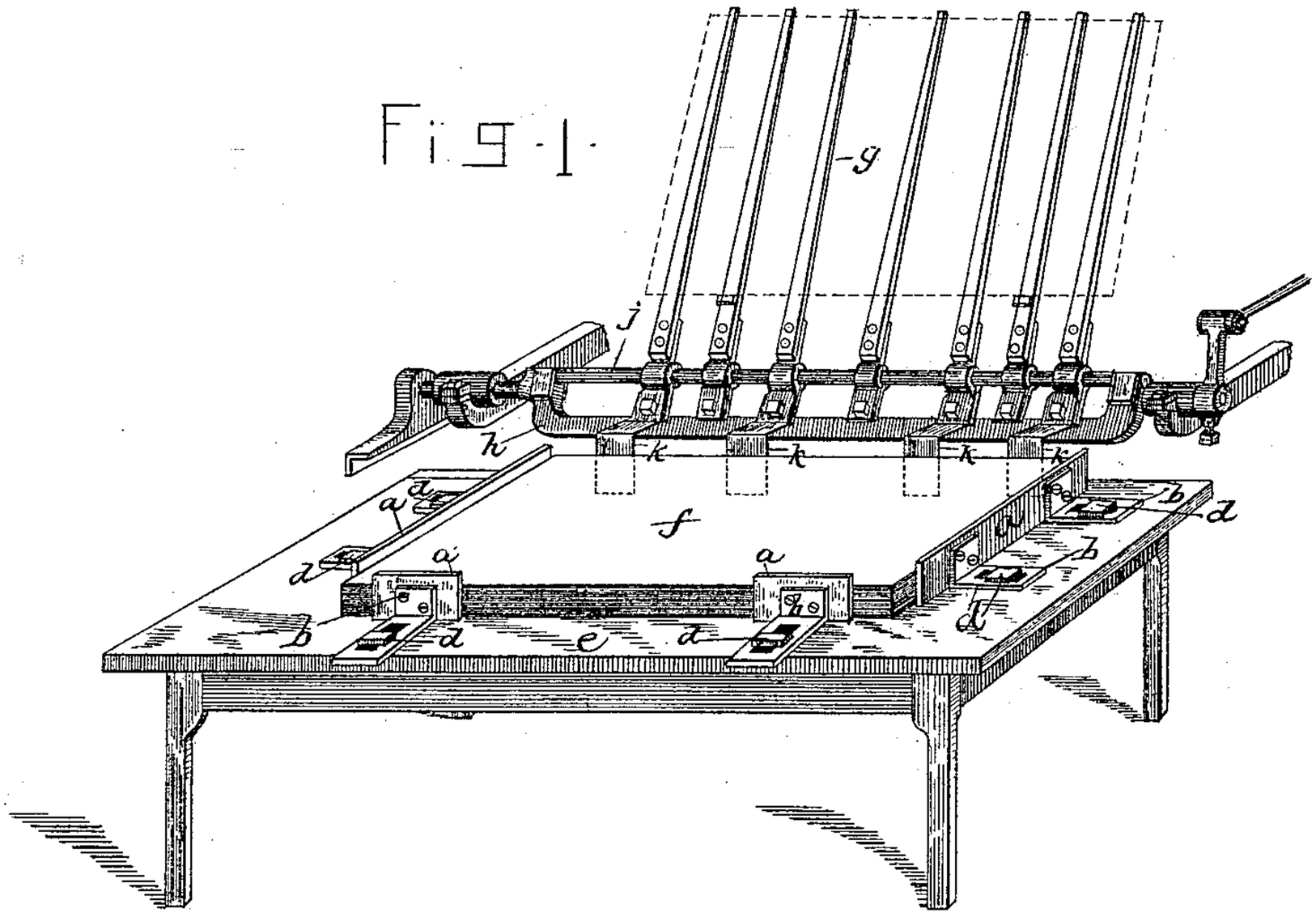
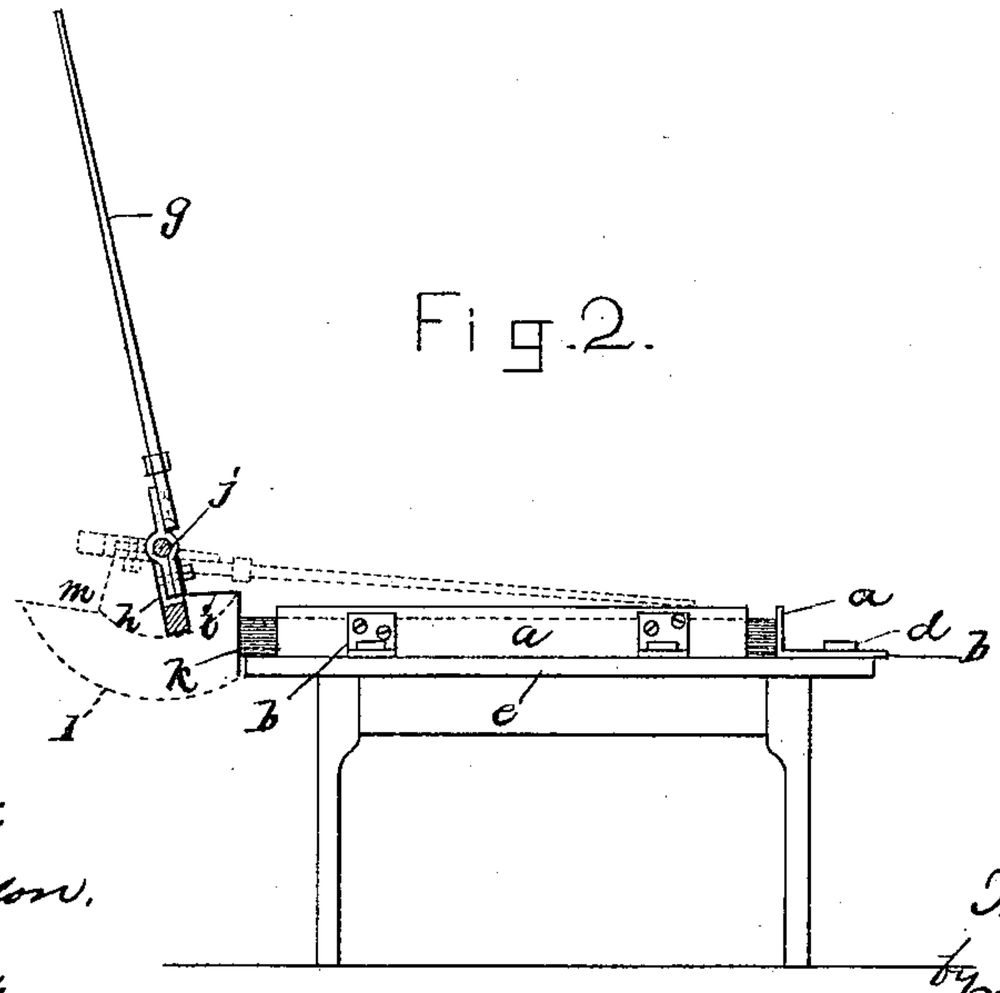


Fig. 2.



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UNITED STATES PATENT OFFICE.

THOMAS HANNIGAN, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO PETER HANNIGAN, OF SAME PLACE.

DEVICE FOR JOGGING OR EVENING SHEETS OF PAPER ON FLY-TABLES OF PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 365,004, dated June 14, 1887.

Application filed October 11, 1886. Serial No. 215,848. (No model.)

To all whom it may concern:

Be it known that I, THOMAS HANNIGAN, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Devices for Jogging or Evening Sheets of Paper on Fly-Tables of Printing-Presses, of which the following is a specification.

My invention relates to printing-presses, and more particularly to the devices connected therewith for automatically "jogging" or evening the sheets of paper as they are successively printed and delivered by the flier on the fly board or table.

It is the object of my invention to simplify the construction of such devices, and at the same time render them more efficient in operation, cheapen the cost of their production, make them less liable to get out of repair, and secure a material saving of time and power in their operation and manipulation.

My invention consists in providing strips or plates of metal, attached to the flier-frame, of such form and so related to the flier and fly board or table that when the flier shall return to position after having deposited a printed sheet between the gages on the fly-board said strips or plates of metal will come in contact with the forward edge of the sheet of paper, or that edge thereof extending toward the flier, and "jog" or move the sheet rearwardly into position against the gages.

Having thus indicated the purposes and nature of my invention, I will now proceed to describe it, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which drawings—

Figure 1 represents a perspective view of the invention, only so much of the parts of the machine associated with the flier being shown as is necessary to a clear understanding of my improvements. Fig. 2 is a side view of the same, parts being represented as in section.

Similar letters of reference indicate similar parts in both figures.

In carrying out my invention I construct a series of gages, consisting of straight strips of wood or metal *a*, attached to angular base-pieces *b*, which base-pieces are provided with slots adapted to receive therethrough the shank of bolts or screws *d*, adapted to be screwed into the fly-table *c*, by which means said gages may be moved to and fixed in position on said table against or in close proximity to the edges of sheets of paper *f*, of varying sizes.

g represents the flier, and *h* the flier-frame, of common construction, and adapted, as is well understood by those skilled in the art, to receive the printed paper from the press and deposit it on the fly table or board, Fig. 2 showing in dotted lines the position of the flier at the moment of laying a sheet on the table, while the full lines show it in position to receive a sheet from the press.

i represents strips of sheet metal secured by one of their ends to the flier-frame, and extending downwardly therefrom below its journal-shaft *j* when the flier is in position to receive a sheet from the press. Said strips *i* are bent to such form that when the flier is in the position last mentioned their outer or lower portions, *k*, will be in substantially horizontal position and rest against the forward edges of the sheets of paper *f*.

The operation of my invention may be described as follows: After a form is "made ready" on the press, the gages *a a* are adjusted on the table *c* in close proximity to the sides of the sheet as it is thrown off by the flier, the rear gages being preferably a little farther from the rear edge of the sheet than are the side gages from the side edges, and the table *c* is moved to such position that when the flier is in the position represented by full lines in the drawings the outer or lower portions, *k*, of the strips *i* will just touch the forward edge of the sheet, the rear edge of which will be substantially in contact with the rear gage or gages, *a*. In the operation of the flier *g* the portions *k* of the strips *i* will be caused to describe the arc of a circle, (indicated by the dotted lines *l l*,) so that when the flier is down to its dotted-line position, Fig. 2, having just laid a sheet on the fly-table, said strips *i* will be in the position represented by broken lines at *m*. It is preferred that the flier shall deposit the sheet on the table with its forward edge a little in advance of the vertical plane of the portions *k* of strips *i* when the flier is in its full-line position, so that as said flier returns from its dotted to its full line position, Fig. 2, said portions *k* of strips *i* will come

in contact with the forward edge of the sheet thrown off and jog it into position against the gages *a*. Should the sheet be deposited on the table at a slight angle to the gages *a*, or in advance of the other sheets piled in position between the gages, the operation of the strips *i* on the forward edges of the sheet will result in evening it with the other sheets between said gages.

Having thus described my invention, what I claim is—

The combination, with the flier, flier-frame, and its journal-shaft, of strips secured to said flier or flier-frame and extending below or beyond the journal-shaft, the lower or outer ends of said strips being constructed to stand in substantially vertical position when the flier is in raised position, substantially as and for the purpose hereinbefore set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 2d day of October, 1886.

THOMAS HANNIGAN.

Witnesses:
ARTHUR W. CROSSLEY,
A. D. HARRISON.