

(No Model.)

T. C. DEXTER.  
PAPER FOLDING MACHINE.

No. 332,331.

Patented Dec. 15, 1885.

Fig. 2

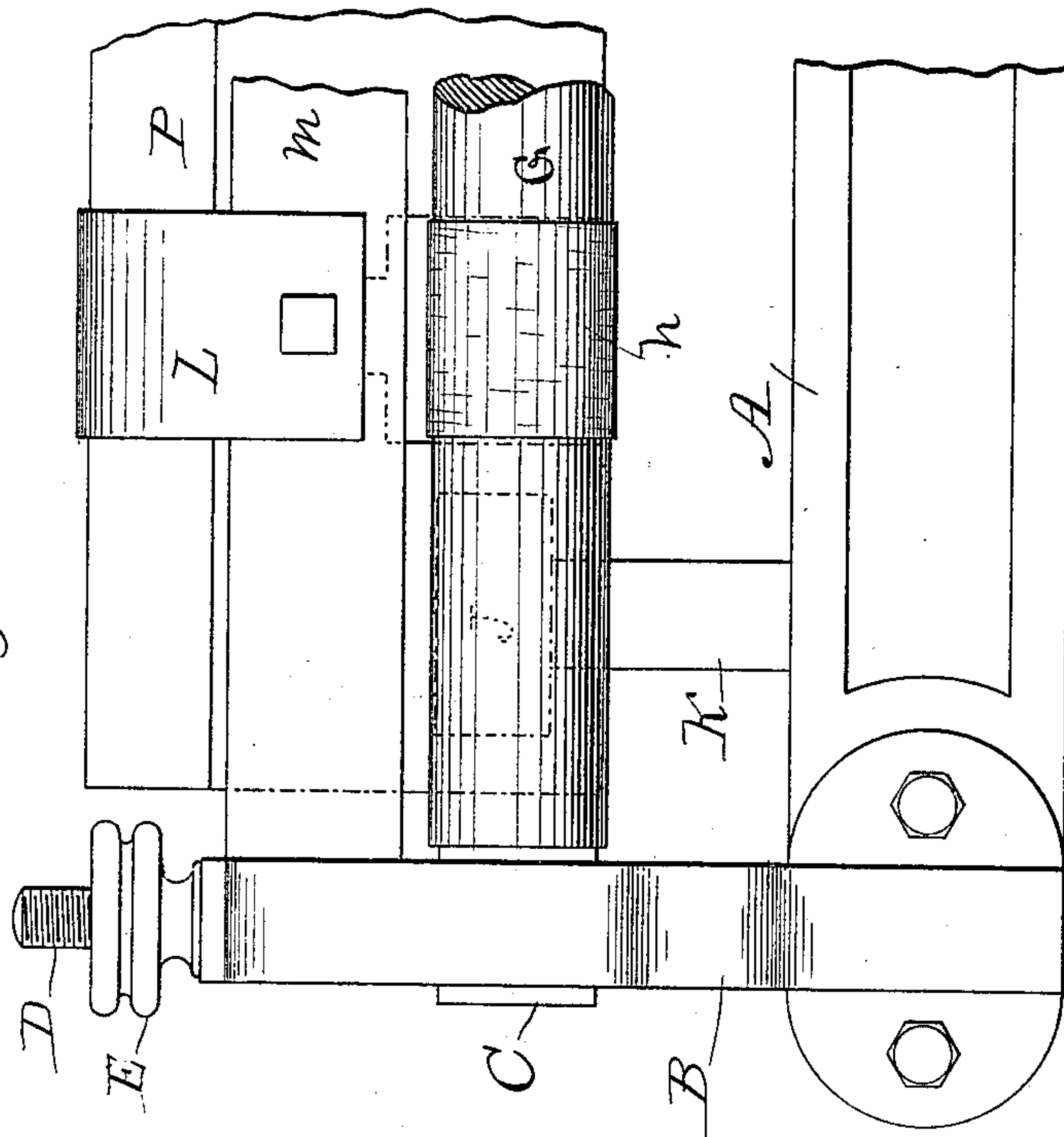
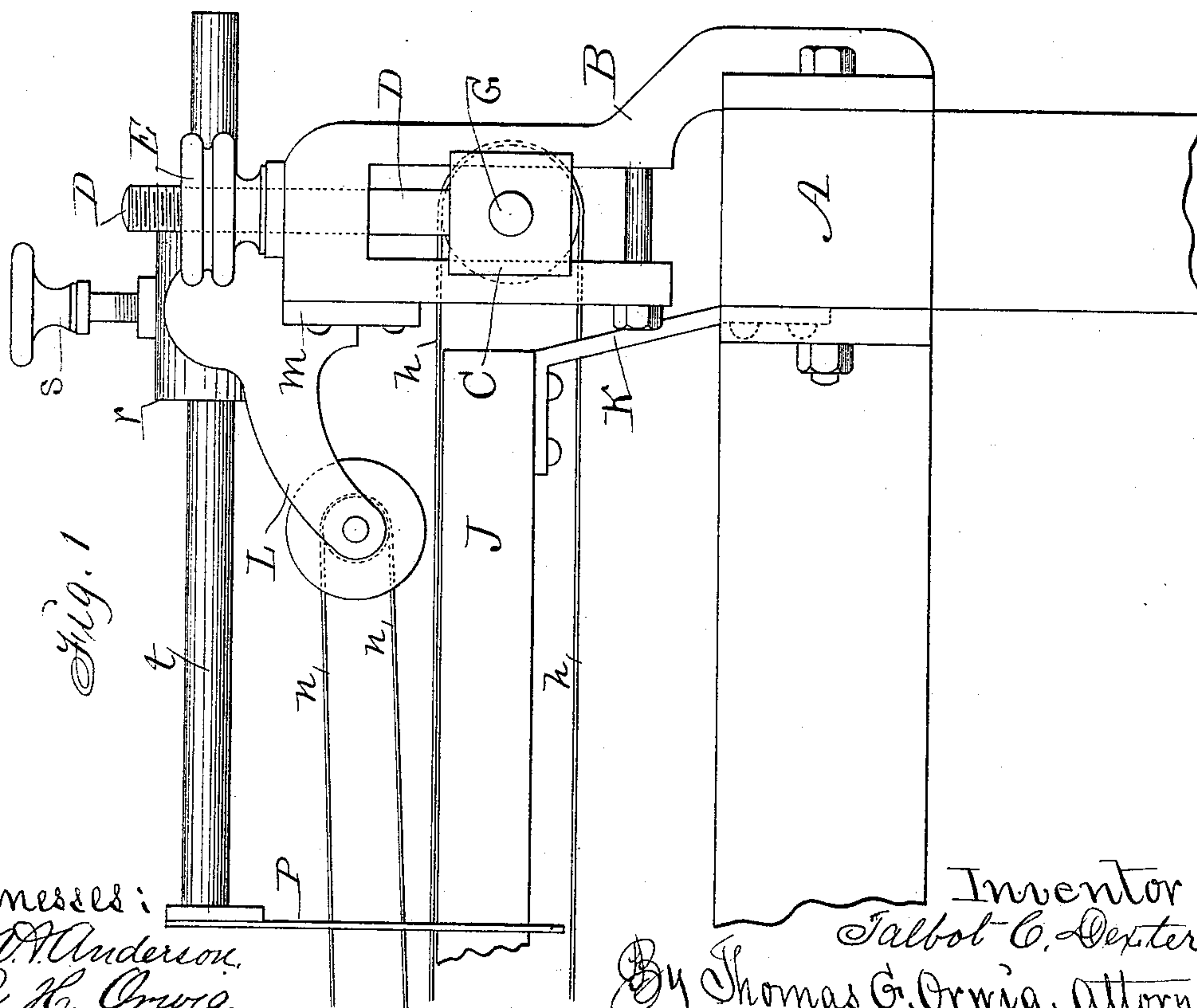


Fig. 1



Witnesses:  
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# UNITED STATES PATENT OFFICE.

TALBOT C. DEXTER, OF DES MOINES, IOWA.

## PAPER-FOLDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 332,331, dated December 15, 1885.

Application filed January 2, 1885. Serial No. 151,866. (No model.)

*To all whom it may concern:*

Be it known that I, TALBOT C. DEXTER, a citizen of the United States, and a resident of Des Moines, in the county of Polk and State of Iowa, have invented a new and useful Improvement in Paper-Folding Machines, of which the following is a specification.

My invention relates to the mechanism for advancing and adjusting printed sheets relative to folding-rollers. Heretofore I have combined rigid slats with an adjustable gage in such a manner that the slats could be elevated at one end, so that an advancing sheet carried by tapes would slide upon the slats, and the friction of the carrying-tapes upon the sheet diminished by means of the slats, as required, to prevent the sheet from being doubled when it came in contact with the gage that restricted its further advance relative to the folding-rollers, as set forth in my application No. 133,431, filed May 31, 1884.

My improvement consists in the construction and combination of a vertically-adjustable tape-carrying roller, rigid fixed slats, and an adjustable gage, as hereinafter fully set forth, in such a manner that the friction of the carrying-tapes upon the advancing sheets can be regulated by simply raising or lowering adjustable roller-bearings by means of screws, as illustrated in the accompanying drawings, in which—

Figure 1 is a side view of a portion of a folding-machine, showing a fixed slat and an end view of the adjustable tape-carrying roller; and Fig. 2, a view of the same parts taken at right angles relative to Fig. 1.

A represents the frame of a machine.

B is an auxiliary frame bolted to the top and corner of the frame A.

C is a roller-bearer fitted to slide vertically in a slot formed in the frame B.

D is a rod extending upward from the bearer C and through a perforation in the arched top of the frame B.

F is a thumb-screw on the screw-threaded top end of the rod D. A duplicate of this roller-bearing and adjusting device is fixed to

the opposite corner of the frame of the machine, so that the two adjustable bearings C will support a roller, G, in a horizontal position, as required to actuate a series of sheet-carrying tapes, *h*.

J is one of a series of rigid wooden slats fixed to the frame A by means of brackets *k*, to extend over and parallel with a pair of folding-rollers located in the center of the machine.

L is one of a series of pulley-bearers fixed to a straight bar, *m*, that extends horizontally from one of the auxiliary frames B to the other, and is fastened thereto by means of screw-bolts. Sheet-carrying tapes *n* are passed over the pulleys in the bearers L.

P represents an adjustable gage that arrests the advance of a sheet moved by the carrying-tapes *h* and *n* over the slots J. It is formed in two sections, as shown in my patent above referred to, and connected with the cross-bar *m* by means of fixed bearers *r* and *s* and arms *t*.

To regulate the friction of the tapes *h* upon a sheet carried toward the gage P as required, to prevent it from coming in contact with too much force and to prevent it from being crowded and doubled and creased, I simply lower the roller C, to let the tapes *h* descend below the top surfaces of the rear portions of the fixed slats J, so that the advance portion of the sheet will slide upon the slats in place of being carried on the moving tapes.

I claim as my invention—

1. In a paper-folding machine, the combination of a series of fixed rigid slats and an adjustable roller carrying a series of carrying-tapes with a gage or sheet-stopping device, for the purpose stated.

2. A pair of auxiliary frames, B, adjustable roller-bearers C D, a roller, G, carrying a series of tapes, *h*, and a series of fixed slats, J, in combination with a stop or gage in a paper-folding machine, substantially as and for the purposes shown and described.

TALBOT C. DEXTER.

Witnesses:

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