

(Model.)

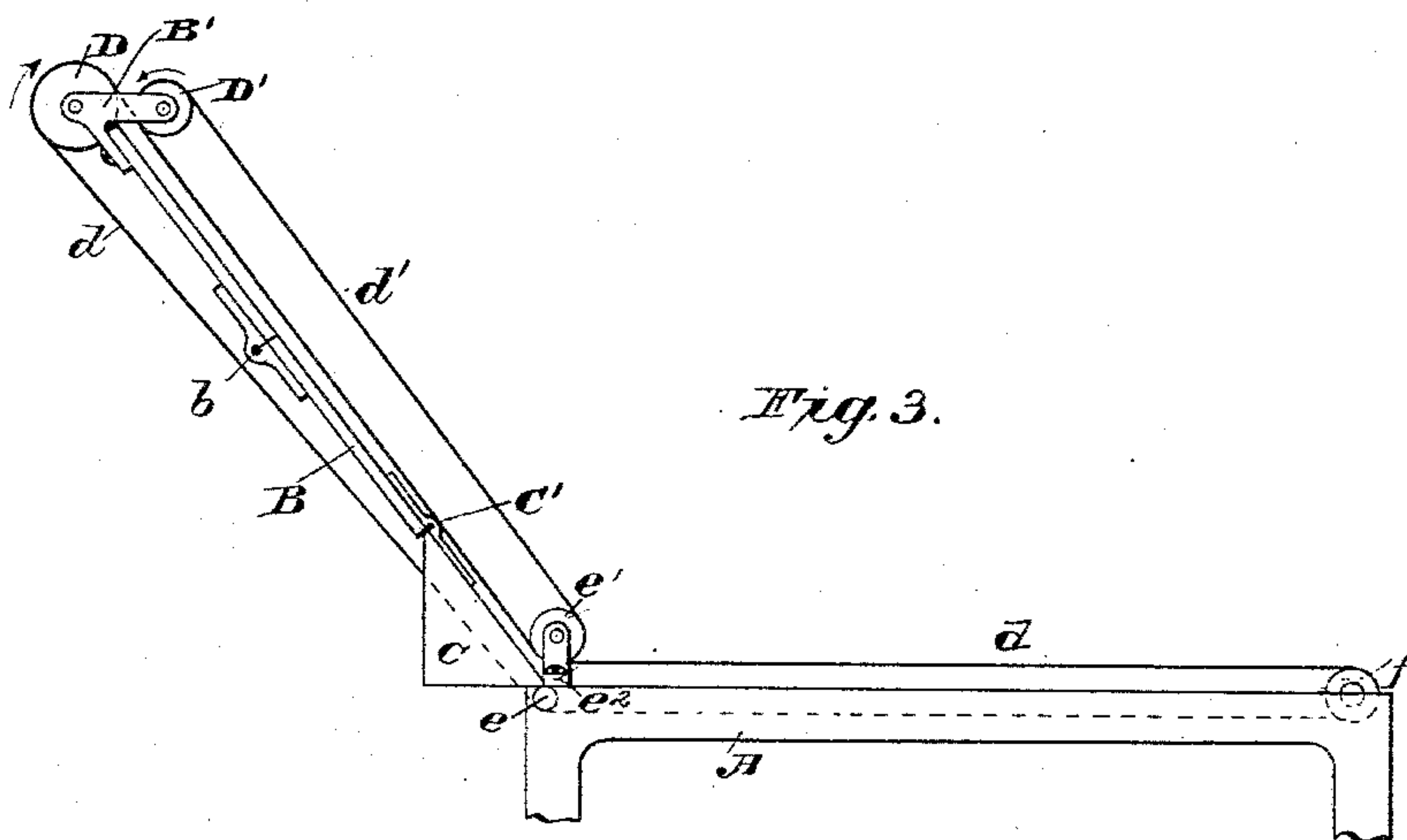
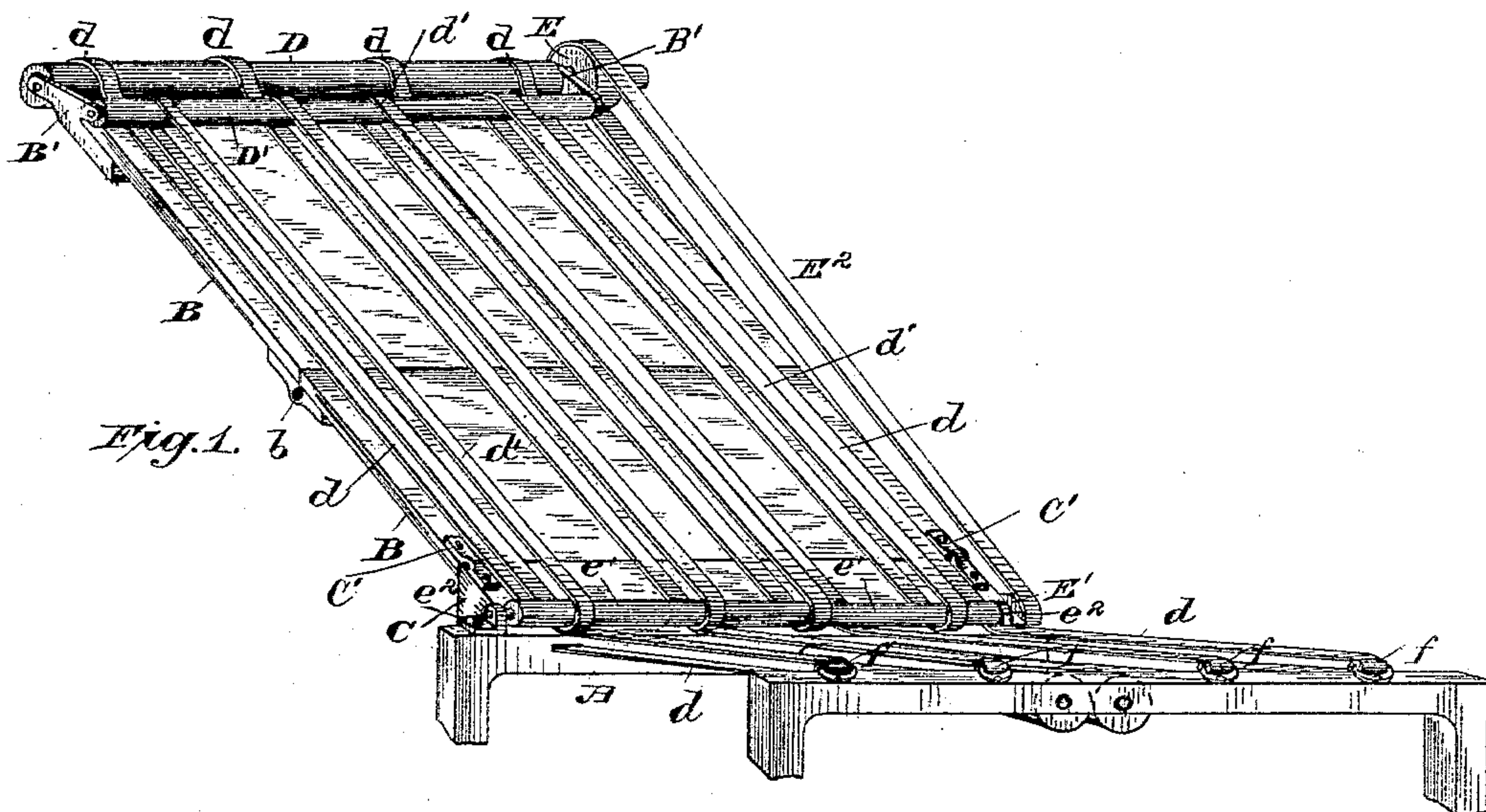
2 Sheets—Sheet 1.

R. T. BROWN.

# CARRIER ATTACHMENT FOR FOLDING MACHINES.

No. 331,762.

Patented Dec. 8, 1885.



*Attest:*

Thos J. Panner  
Rt 4. Smith.

*Inventor:*

Inventor:  
Rich<sup>d</sup>. J. Brown  
By Wm. Smith  
Atty

(Model.)

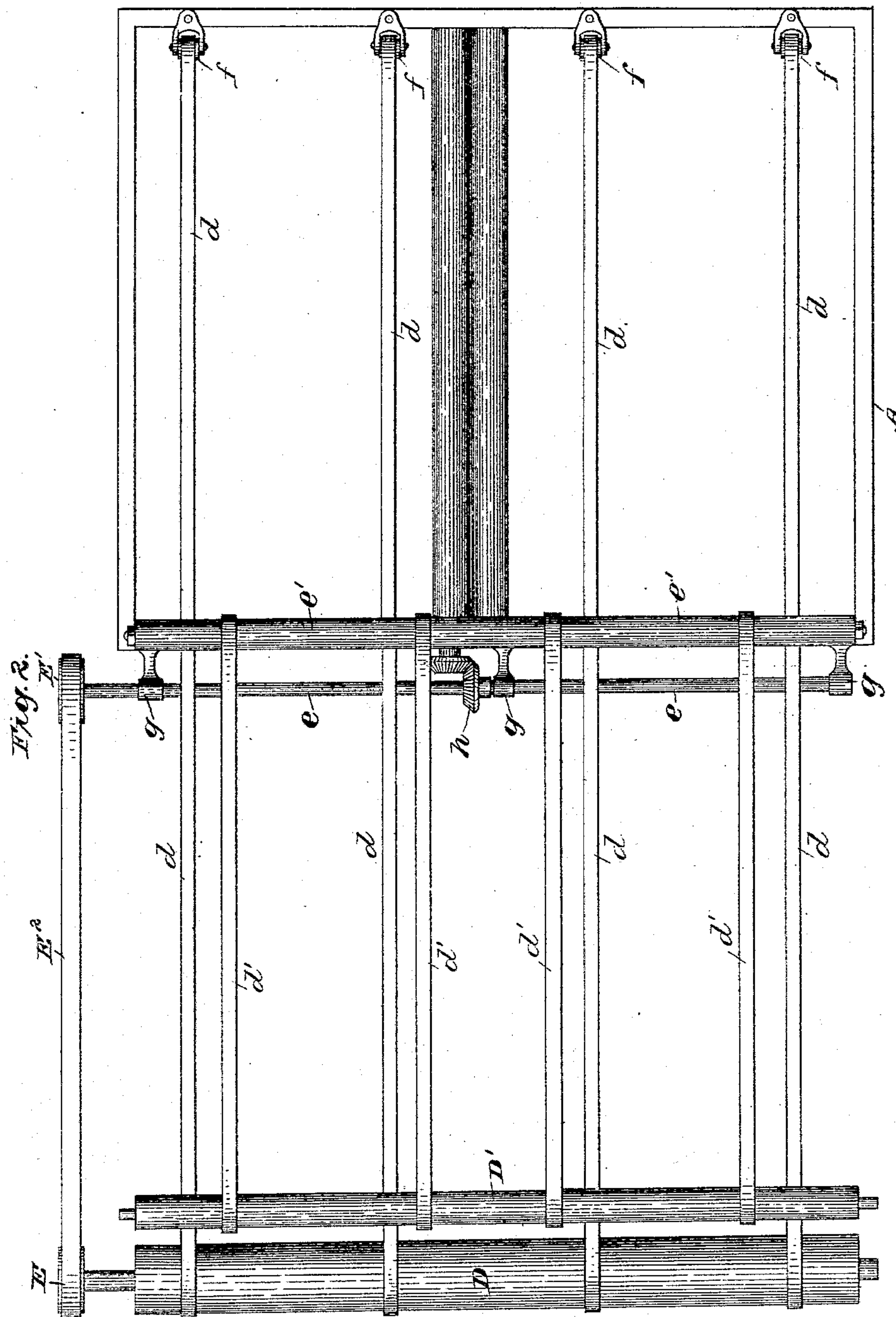
2 Sheets—Sheet 2.

R. T. BROWN.

# CARRIER ATTACHMENT FOR FOLDING MACHINES.

No. 331,762.

Patented Dec. 8, 1885.



Attest.  
Wm. J. Parker  
Recy. Smith.

Inventor  
Rich. D. Brown  
By  
S. M. Smith  
Att'y.



# UNITED STATES PATENT OFFICE.

RICHARD T. BROWN, OF ERIE, PENNSYLVANIA, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE BROWN FOLDING MACHINE COMPANY, (LIMITED,) OF SAME PLACE.

## CARRIER ATTACHMENT FOR FOLDING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 331,762, dated December 8, 1885.

Application filed May 28, 1883. Serial No. 96,404. (Model.)

*To all whom it may concern:*

Be it known that I, RICHARD T. BROWN, of Erie, county of Erie, and State of Pennsylvania, have invented a new and useful Improvement in Carrier Attachments to Folding-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

My invention relates to the means for connecting a folding-machine to a printing-press, so as to convey the printed sheets from the press to the folder; and it consists in certain improvements in the construction thereof, as will be hereinafter fully set forth, and pointed out in the claim.

My invention is illustrated in the accompanying drawings, as follows:

Figure 1 is a perspective view of my improved carrier, shown applied to one of the horizontal parts of a folding-machine frame, and Fig. 2 is a plan view showing the actuating mechanism, and Fig. 3 is a side elevation of the same, showing the arrangement of the rollers and tapes and the manner of hinging the carrier to the folding-machine.

As my device is applicable to any form of folding-machine and press, I do not illustrate said machines, except to show a fragment of the folding-machine.

A designates the folding-machine frame. B B designate the two sections of the carrier-frame, which are hinged together by hinges *b*, which are placed on the under side of the parts B B, so that the frame will fold together with its upper side outermost when folded, and so when in place the hinges will form a support together with the abutting ends of the parts B B. C is a third section of the carrier-frame, which is fixed to the folder, and sets at a proper incline thereto. The other hinged sections of the carrier-frame B B are hinged to the section C by hinges C' C', which are placed on the opposite side of the carrier-frame from the hinges *b*, so that after the parts B B are folded together they can be laid over onto the folder. B' B' are brackets attached to the upper end of the carrier-frame, to serve as bearings for the rollers D D'. *e*<sup>2</sup> *e*<sup>2</sup> are brackets on the folder, which serve as bear-

ings for the roller *e*'. *d d d d* are tapes which pass from the roller D down the upper side of the carrier-frame, under the rollers D' and *e*', across the folder, over spools *f f f f* at the rear end of the folder, then forward and up under the carrier-frame, and over the said roller D. These are the carrier-tapes which convey the sheets of paper from the press to the folder. *d'* marks tapes which run over the two rollers D' and *e*'. These latter tapes are to lie on top of a passing sheet of paper and keep it in place. The roller D has on its shaft or gudgeon a pulley, E, and on a shaft, *e*, in the folder is another pulley, E', and a belt, E<sup>2</sup>, passes over these two pulleys. The shaft *e* receives its motion from the operative parts of the folder, and the roller D is moved by the belt E<sup>2</sup>. The roller D' is moved by frictional contact with the tapes *d*, and the tapes *d'* cause the lower roller, *e*', to revolve.

I do not claim, broadly, the combination, with a folding-machine, of a sheet-carrier hinged to and adapted to be folded over upon said machine; nor do I claim, broadly, the hinged carrier provided with the tape-carrying rollers and the tapes, in combination with a folding-machine having suitable rollers for the reception of said tapes and means for driving the latter; nor do I claim, broadly, the combination, with a folding-machine, of the jointed and hinged carrier.

It will be seen that by my construction, first, I have a small section, C, of the frame attached fixedly to the folding-machine, and then hinge the frame to this. This enables the parts B B of the frame to be folded back and lie over the roller *e*', and in doing so the tapes *d'* are slackened enough to allow the frame to fold upward at the hinges *b*; second, I have the two parts B B of the frame hinged by hinges *b* on the lower side, so they can fold together by moving the joint upward. This not only makes a self-supporting joint, but it slackens the tapes *d* on the under side, and thus allows them to lengthen on the upper side as the fold is made. It will thus be seen that all of the tapes on the carrier are slackened by folding the carrier-frame. This latter is a very desirable feature, for, if the tapes were strained by folding the carrier-frame back, they would require con-



stant attention to keep them in operative condition, and as all tapes when in use become stretched, they will, if slackened, shrink while not in use.

5 Having now described my invention, what I claim as new is—

In a sheet-carrier attachment for folding-machines, the combination, in the frame of said carrier, of the parts B B and C, the hinges  
10 b, joining the parts B B together in a manner substantially as shown, whereby the two parts

will fold with their under sides together, the hinges C' C' joining the lower part, B, to the part C, in a manner substantially as shown, whereby the parts B B will fold over onto the  
15 part C, substantially as set forth.

In testimony whereof I have hereunto set my hand this 26th day of May, A. D. 1883.

RICHARD T. BROWN.

Witnesses:

WM. HARDWICK,  
ED KELLY.