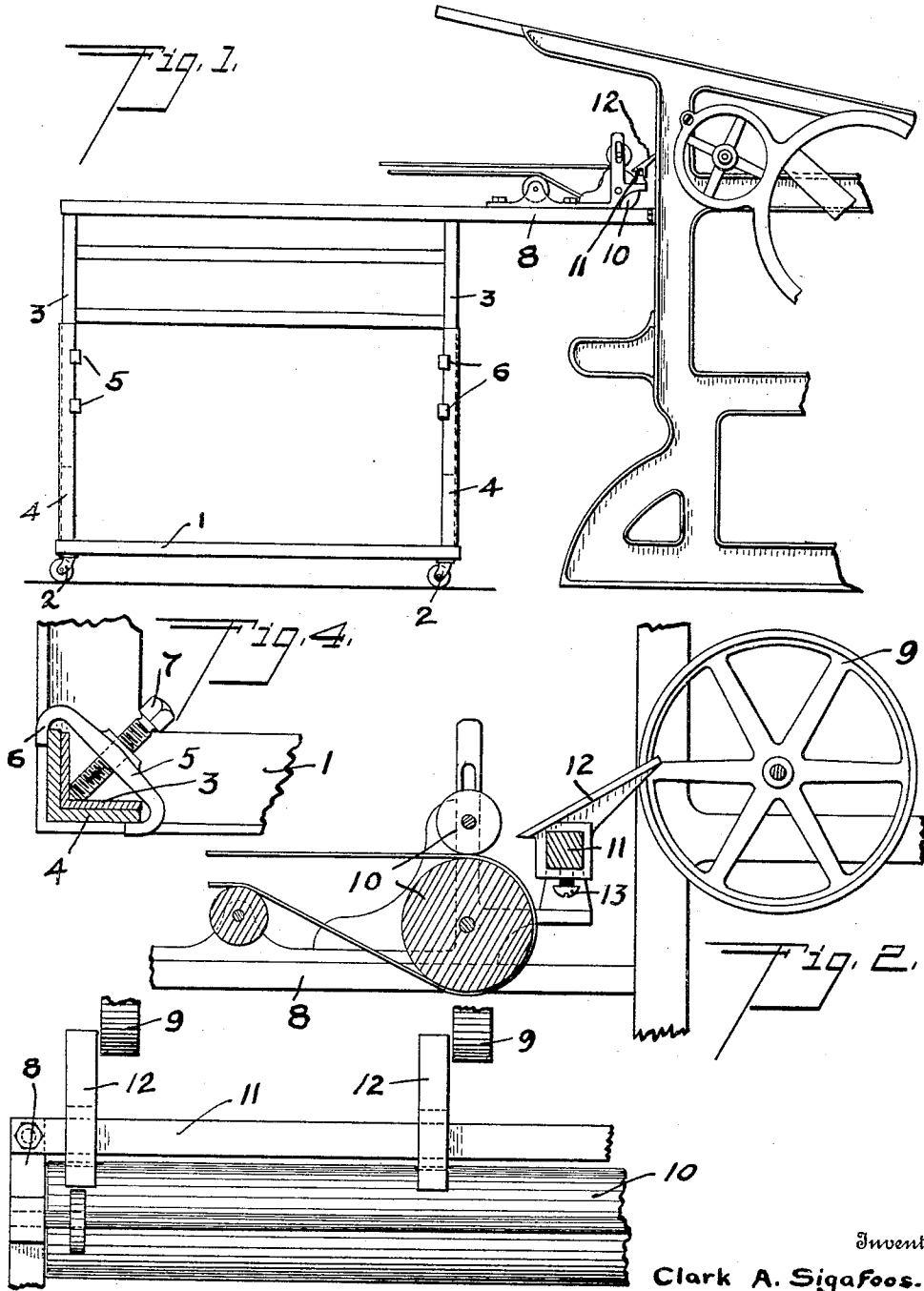


C. A. SIGAF00S.  
 FRAME FOR FOLDING MACHINES.  
 APPLICATION FILED JULY 3, 1909.

1,056,223.

Patented Mar. 18, 1913.



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Witnesses:  
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# UNITED STATES PATENT OFFICE.

CLARK A. SIGAFOOS, OF OMAHA, NEBRASKA.

## FRAME FOR FOLDING-MACHINES.

1,056,223.

Specification of Letters Patent.

Patented Mar. 18, 1913.

Application filed July 3, 1909. Serial No. 505,924.

*To all whom it may concern:*

Be it known that I, CLARK A. SIGAFOOS, a citizen of the United States, and a resident of Omaha, in the county of Douglas and State of Nebraska, have invented certain new and useful Improvements in Frames for Folding-Machines, of which the following is a specification.

My invention relates to folding machines and more particularly to frames for such machines.

It is the object of my invention to provide a frame for folding machines which will adapt the same for removable connection with any ordinary cylinder printing press so as to receive the paper directly therefrom without the interposition of any moving mechanism for conveying the paper from the delivery wheels of the press to the receiving rolls of the folding mechanism.

Constructions embodying my invention are illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the frame in position adjoining a cylinder press, of which a sufficient portion is shown to illustrate the relative positions of the machines, Fig. 2 is a detail vertical section through the finger-bar and receiving rolls, Fig. 3 is a partial plan view of the front end of the frame, showing the finger-bar and receiving rolls, and Fig. 4 is a detail horizontal section through one of the adjustable legs of the frame.

I prefer to construct the frame principally of steel angle-bars, since the same are very readily adapted as members of a frame which will be at once light, strong and rigid. The general form of the frame is rectangular and the same is preferably mounted on a base 1 which is provided with casters 2 to facilitate the moving of the frame upon the floor when it is desired to disconnect the same from the press.

Each of the legs of the frame is made up of two angle bars 3 and 4 which overlap each other and are adjustably connected by means of the blocks 5 which have hooked ends 6 thereon engaging the flanges of the outer angle-bar 4. Through the centers of the blocks 5 are passed the screws 7 which enter the inner corner of the angle-bar 3 and press said bar into engagement with the outer bar. One of the blocks 5 is disposed near the end of each of the bars 3 and 4.

The upper members 8 of the main upper frame are extended beyond the legs at the front side of the machine so that the ends of said members may be brought into proximity to the delivery wheels 9 of the press, without the lower part of the frame interfering with the press frame. Near the ends of said members 8 are secured the bearings for the receiving rolls 10 of the folding mechanism. In front of said receiving rolls is the finger-bar 11 on which a plurality of fingers 12 are mounted. The said bar is preferably rectangular in section and the fingers are adjustable longitudinally thereon and secured in adjusted position by set-screws 13. The longitudinal positions of the fingers on the bar 11 are adjusted so that each of the fingers extends adjacent to one of the delivery wheels of the press, and the upper surfaces of the fingers are so inclined as to receive the paper from the delivery wheels and direct the same between the receiving rolls of the folding mechanism.

By the adjustment of the legs of the frame to raise and lower the same, the extension of the upper frame members beyond the front side of the main frame, and the adjustment of the fingers longitudinally of the finger-bar, it will be obvious that the folding mechanism may be brought into such relation to the delivery wheels of any ordinary press of the class described as to receive the paper directly therefrom.

Now, having described my invention, what I claim and desire to secure by Letters Patent is:

1. In a frame for folding machines, legs each consisting of two angle-bars having overlapping portions, and clamps arranged to hold said overlapping portions in engagement with each other, each of said clamps consisting of a block having hooked ends adapted to engage the flanges of one angle-bar and a screw passing through said block and engaging the other angle-bar.

2. In a paper folding machine, a main frame adapted to carry paper folding mechanism, legs of adjustable length supporting said frame, the frame having upper horizontal members extending beyond the legs at one side, receiving rolls and a finger-bar carried adjacent to the ends of said frame members, and fingers on said finger-bar adapted to direct paper from the delivery wheels of a press to the said receiving rolls,

the main frame including the upper horizontal frame members, and the receiving rolls, finger-bar and fingers being supported by the adjustable legs so that all of said parts may be brought into the same relation to press delivery wheels of various heights.

3. In a paper folding machine, a main frame adapted to support paper folding mechanism, paper receiving means mounted on the main frame for receiving paper from the delivery end of a press, said paper receiving means being disposed in fixed angular relation with respect to the main frame, and adjusting means for the main frame whereby the main frame and the paper receiving means mounted thereon may be supported in different horizontal planes for printing presses of different heights.

4. In a paper folding machine, a main frame adapted to support paper folding devices, an extension fixed to the main frame at one end thereof, paper receiving means supported by the extension for receiving paper from the delivery end of a press, a supporting frame for the main frame, ad-

justable connections between the main frame and the supporting frame for permitting the main frame and the extension fixed thereto to be simultaneously raised or lowered to different horizontal planes for presses of different heights.

5. In a paper folding attachment for printing presses, a main frame adapted to support paper folding mechanism, directing means mounted on the main frame for directing paper from the delivery end of the press transversely of the main frame, said directing means having a fixed vertical relation with respect to the main frame, and means for bodily adjusting the main frame and the paper receiving means mounted thereon in a vertical and rectilinear direction.

In testimony whereof I have hereunto subscribed my name in the presence of two witnesses.

CLARK A. SIGAFOOS.

Witnesses:

ROY G. KRATZ,  
D. O. BARNELL.