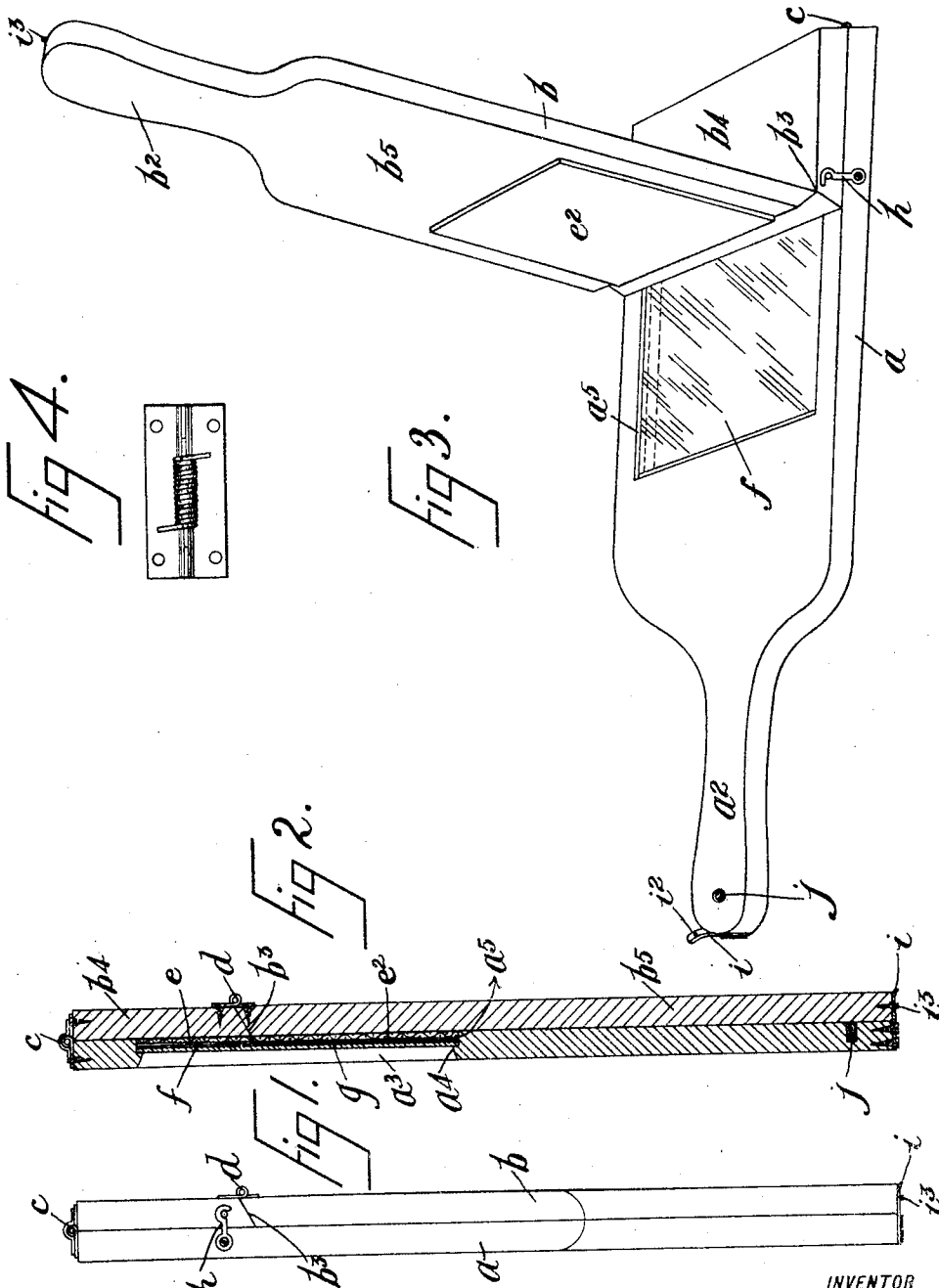


No. 799,401.

PATENTED SEPT. 12, 1905.

E. R. PETRIE.
PRINTING FRAME.

APPLICATION FILED APR. 25, 1905.



WITNESSES

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PRINTING-FRAME.

No. 799,401.

Specification of Letters Patent.

Patented Sept. 12, 1905.

Application filed April 25, 1905. Serial No. 257,360.

To all whom it may concern:

Be it known that I, EDWARD R. PETRIE, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Printing-Frames, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to printing-frames or devices for use in printing from photographic negatives comprising plates or films and also for use in printing blue-prints and other copies from drawings and the like; and the object thereof is to provide an improved device of the class which is an improvement on that described and claimed in United States Letters Patent No. 785,373, granted to me March 21, 1905, whereby the construction and operation of the said patented device is simplified and rendered more effectual.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by similar reference characters in each of the views, and in which—

Figure 1 is a side view of my improved printing-frame; Fig. 2, a longitudinal central section thereof; Fig. 3, a perspective view showing the method of operating the device, and Fig. 4 a front view of a hinge which I employ.

In the practice of my invention I provide a printing-frame which consists of two parts or boards a and b , and said parts or boards are provided at one end, respectively, with handles a^2 and b^2 , and said parts or boards a and b are also hinged together at the ends opposite the handles a^2 and b^2 , as shown at c , and the hinges c are preferably spring-hinges, whereby said parts are normally held in the closed position, as shown in Figs. 1 and 2.

For the purpose of this description the part a will be called the "back" part of the printing-frame and the part b the "front" part, and the back part a of the printing-frame is provided centrally of the body portion thereof with an opening a^3 , which is rectangular in form and in which is an inwardly-directed shoulder a^4 , which extends entirely around said opening.

The front part or board b is divided transversely at b^3 , as clearly shown in the drawings, so as to form a main part b^4 and a supplemental part b^5 , and said parts b^4 and b^5 thereof

are connected by hinges d , and placed on the inner side of the separate parts b^4 and b^5 of the part or board b or the front part of the printing-frame are pads e and e^2 , which are adapted to fit in the opening a^3 or in the part a^5 of said opening.

In practice if a blue-print copy of a drawing is to be made the glass f is placed in the part a^5 of the opening a^3 and rests on the shoulder a^4 , and the drawing to be copied and the necessary sensitized sheet are placed on said glass, as shown at g , and in order to do this the top part b^4 of the printing-frame is turned backwardly on the hinges c , and after the glass f and the drawing and sensitized sheet have been placed in position, as shown in Fig. 2, the part b is turned down on the part a , and the main part b^4 of said part b is secured on the part a by means of the hooks h at the opposite sides of the printing-frame.

The end of the handle a^2 of the part a is provided with a spring-catch i , which extends upwardly and is curved backwardly slightly and provided with a hole i^2 , and the end of the handle b^2 of the part b is provided with a pin i^3 , adapted to pass through the hole i^2 , and this locks the handle b^2 to the handle a^2 , as shown in Figs 1 and 2. I also preferably place in the end of the handle portion a^2 a spiral spring j , which is compressed when the handle members a^2 and b^2 are secured together; but when the spring-catch i is released or pressed backwardly the spring j will lift the part b of the top member b or raise it slightly, so that it may be easily grasped in one hand.

It will be understood that the pads e and e^2 serve to hold the drawing-sheet and the sensitized sheet firmly on the glass f , and in order to determine the progress of the process of copying the drawing the part b^5 of the top member or board b is turned backwardly, as shown in Fig. 3, and the edge of one of the sheets g may be turned up in the usual manner, after which the part b , if the copying process is not complete, may be swung back into position, as shown in Figs. 1 and 2, and in this operation the part b^4 of the top member b and the pad e^2 thereunder securely holds the sheets g in proper position and prevents any relative movement thereof.

The operation of copying an ordinary photographic plate or printing a picture therefrom will be readily understood, the negative in this case taking the position of the glass f , while the sensitized sheet is placed thereon and held in place by the pads e and e^2 .

This device is simple in construction and operation and perfectly adapted to accomplish the result for which it is intended, and the operation thereof will be readily understood by all those familiar with this class of devices.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A printing-frame of the class described, comprising front and back parts similar in form, said parts being also oblong in form and hinged together at one end and provided with handles at the opposite end, the back part being also provided with an opening, and means for supporting a glass therein, the other part being divided transversely into main and supplemental portions which are hinged together and each of which is provided with a pad, said pads when taken together being adapted to fit in said opening, substantially as shown and described.

2. A printing-frame of the class described, comprising front and back parts similar in form, said parts being also oblong in form and hinged together at one end and provided with handles at the opposite end, the back part being also provided with an opening, and means for supporting a glass therein, the other part being divided transversely into main and supplemental portions which are hinged together

and each of which is provided with a pad, said pads when taken together being adapted to fit in said opening, and means for securing the main portion of the front part to the back part, substantially as shown and described.

3. A printing-frame of the class described, comprising front and back parts similar in form, said parts being also oblong in form and hinged together at one end and provided with handles at the opposite end, the back part being also provided with an opening, and means for supporting a glass therein, the other part being divided transversely into main and supplemental portions which are hinged together and each of which is provided with a pad, said pads when taken together being adapted to fit in said opening, and means for securing the main portion of the front part to the back part, and the handles of the separate parts being also provided with means for securing them together, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 22d day of April, 1905.

EDWARD R. PETRIE.

Witnesses:

F. A. STEWART,
C. J. KLEIN.