No. 785,373. PATENTED MAR. 21, 1905.

E. R. PETRIE.

PRINTING FRAME.

APPLICATION FILED JAN. 10, 1905.

2 SHEETS—SHEET 1.

Fig. 1

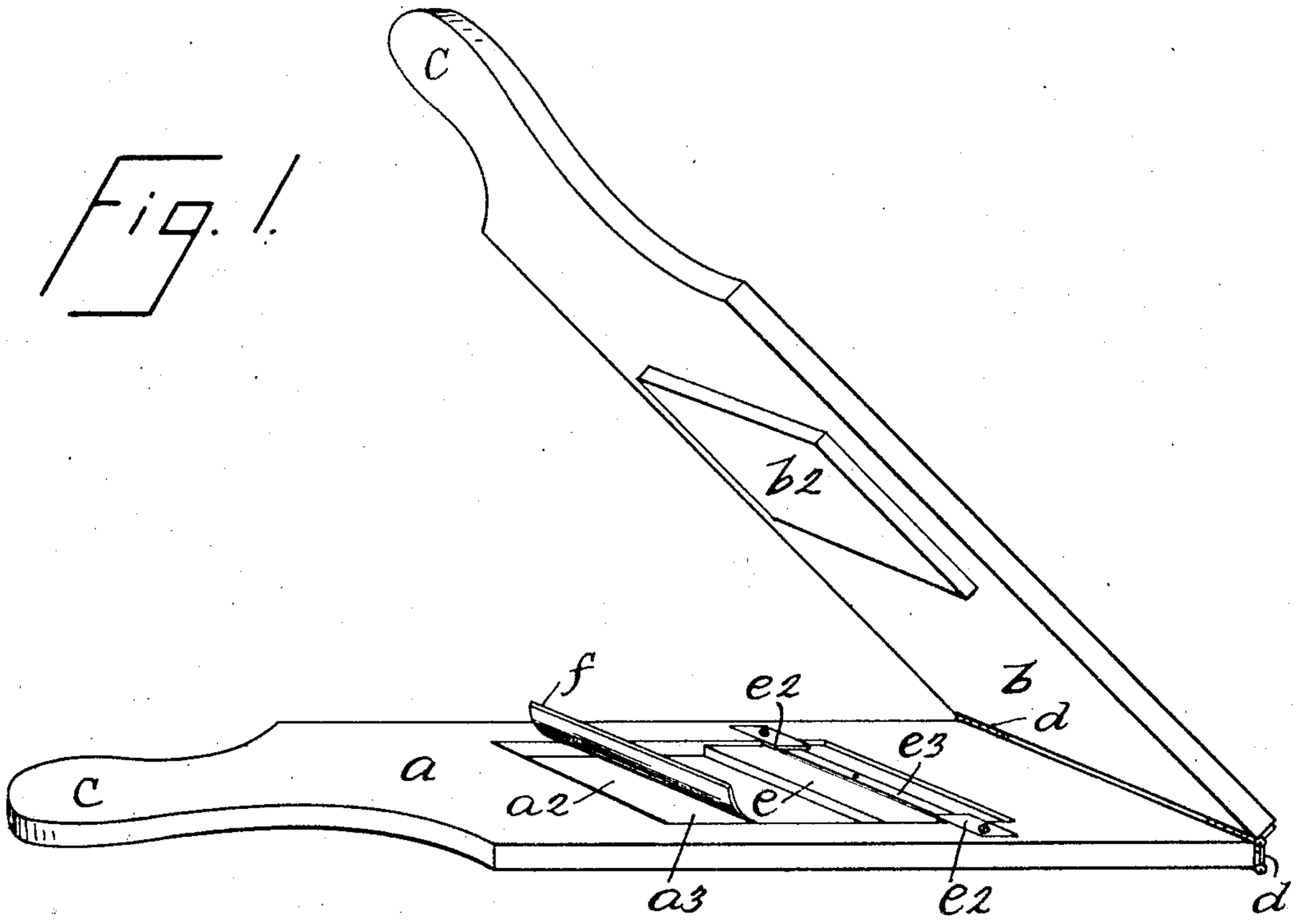
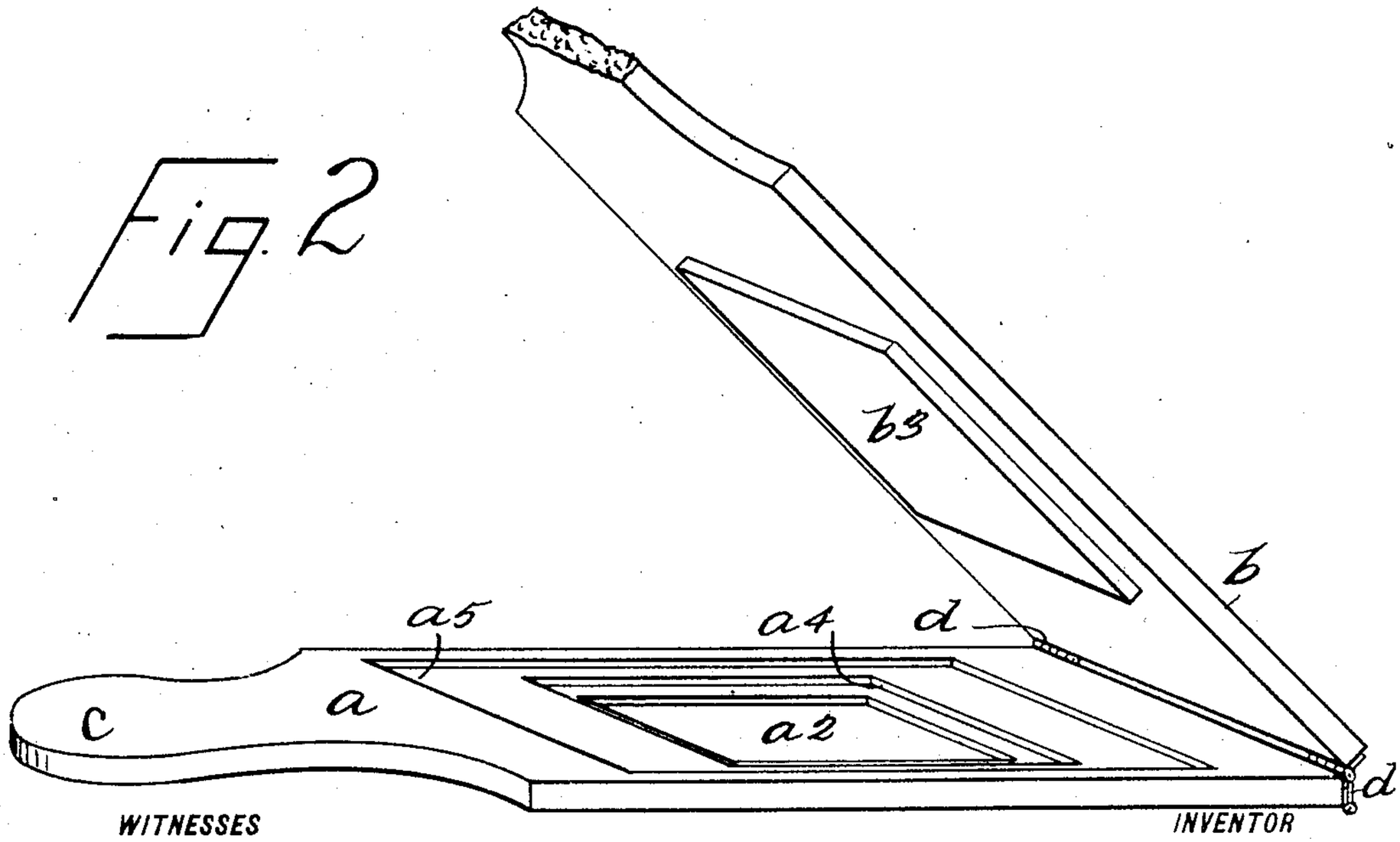


Fig. 2



WITNESSES

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BY

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2 SHEETS—SHEET 2.

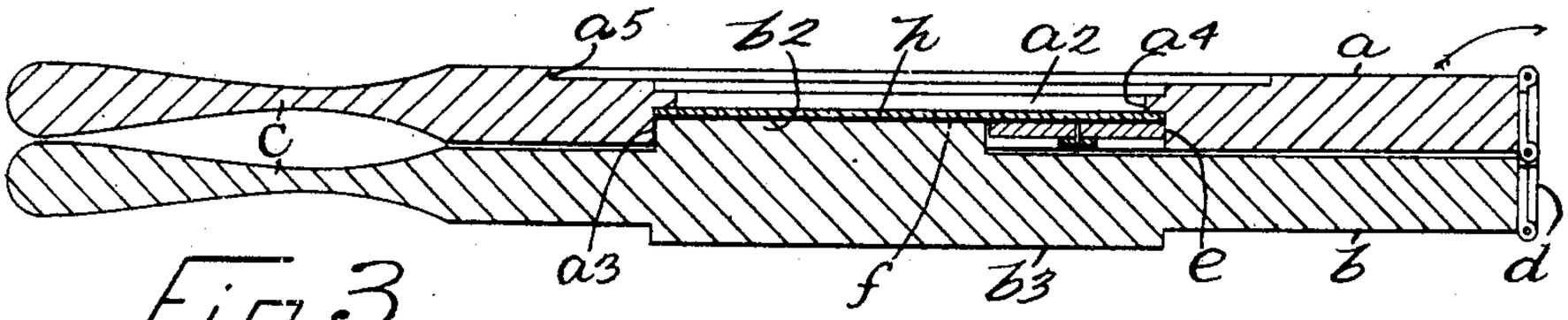

Fig. 3

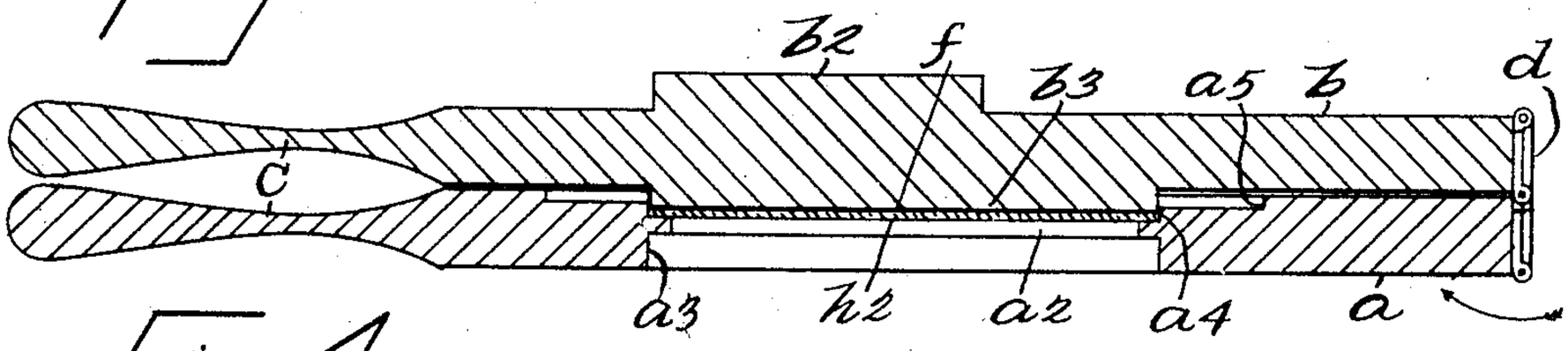

Fig. 4

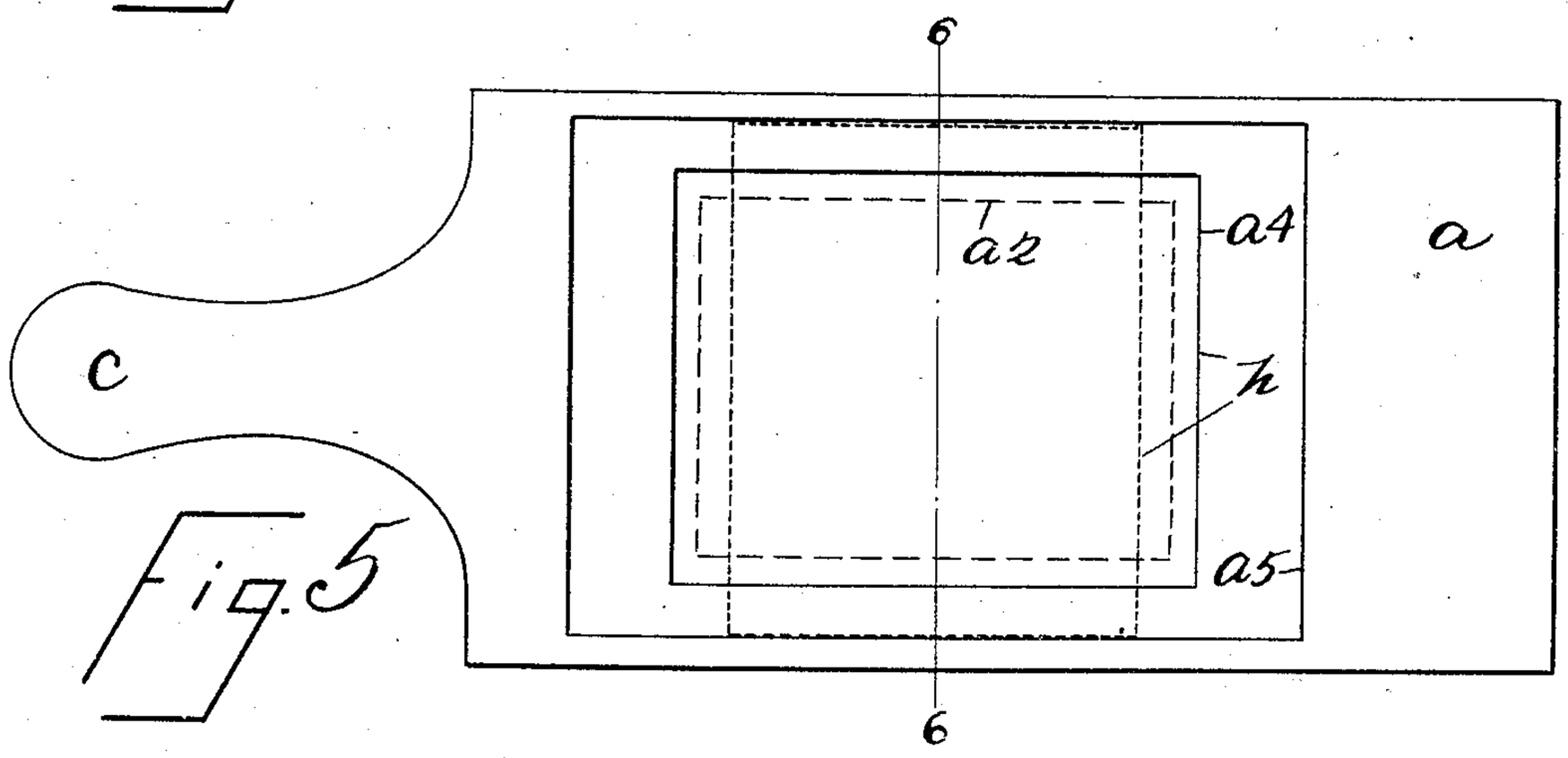

Fig. 5

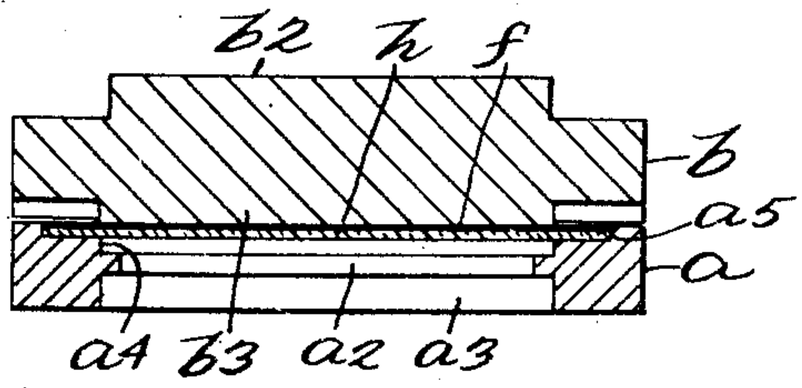

Fig. 6

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No. 785,373. Patented March 21, 1905.

UNITED STATES PATENT OFFICE.

EDWARD R. PETRIE, OF BROOKLYN, NEW YORK.

PRINTING-FRAME.

SPECIFICATION forming part of Letters Patent No. 785,373, dated March 21, 1905.

Application filed January 10, 1905. Serial No. 240,491.

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 a printing frame or device for use in printing from negatives comprising plates or film strips and also for use in printing blue-prints or other copies from drawings and the like; and the object thereof is to provide an improved device of the class specified which may be used for any of the above-named purposes, a further object being to provide a device of this class which consists of two parts, one of which is adapted to be folded around the other and to lie flush with either side thereof; and with these and other objects in view the invention consists in a printing frame or device constructed as hereinafter described and claimed.

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 suitable reference characters in each of the views, and in which—

Figure 1 is a perspective view of my improved printing-frame, showing the frame open and showing the parts in one of the positions in which they are operated; Fig. 2, a similar view, showing the parts in a position the reverse of that shown in Fig. 1; Fig. 3, a longitudinal section showing the parts in a closed position; Fig. 4, a view similar to Fig. 3, showing the parts in a position the reverse of that shown in Fig. 3; Fig. 5, a plan view of the basic part of the device and showing one position of the various members used in connection therewith, and Fig. 6 a section on the line 6 6 of Fig. 5, but showing the complete device.

In the practice of my invention I provide a printing-frame which consists of two parts a and b, and for the purpose of this description the part a will be called a "basic member." The parts a and b are each provided at one end with a handle member c and are hinged together at the opposite end, as shown at d, by means of a double hinge, whereby one of the parts may be folded around the other or so as to lie flush on either side thereof. The part b is provided on one side thereof and centrally thereof with a boss or projection b^2, which in the construction shown is rectangular in form, and on the other side thereof with a similar boss or projection b^3, which in the construction shown is also rectangular in form and which is longer than the boss or projection b^2. The part a is provided with a central opening a^2, which is also preferably rectangular in form, and at one side thereof is a rabbet-groove a^3, which extends entirely around the central opening a^2 and is adapted to receive the boss or projection b^3 on the part b, and at the other side of the opening a^2 is another rabbet-groove a^4, substantially of the same transverse dimension as the rabbet-groove a^3, and around the rabbet-groove a^4 is another groove a^5, which is wider than the groove a^4 and the end dimensions of which in the construction shown are greater than the side dimensions thereof. That side of the basic member a in which the rabbet-groove a^3 is formed is intended for use in daylight and for printing blue-prints or other copies of a drawing or other picture, while the other side of the basic member a, in which the grooves a^4 and a^5 are formed, is intended for use in printing from negative plates or films.

In using the side of the basic member a for printing blue-prints and other copies from drawings and other pictures I provide a transverse plate e, which is of such dimensions as to be placed over the central opening a^2 and the ends of which will rest in the groove a^3, and the basic member or plate a is provided at the opposite sides of said opening with spring-clips e^2, and the plate e is provided with a longitudinal spring e^3, the ends of which are adapted to be inserted under the clips e^2 in the manner of other devices of this class.

In Fig. 3 of the drawings I have shown the

preferred position of the separate parts of the device in copying drawings or other pictures in daylight or by sunlight, and in this operation a glass *h* is employed and the drawing or picture, together with a sensitized sheet *f*, is also placed in position in the usual manner, and the progress of the operation of copying the drawing or picture may be examined at any time by separating the parts *a* and *b* and by raising the free edge of the sensitized sheet in the usual manner, and in this operation the transverse plate *e* holds the drawing and the sensitized sheet in proper relative position, as in other devices of this class.

In Fig. 4 I have shown the separate parts of the device in the preferred position when a picture is to be made from a negative, and in this form of construction the plate h^2 is supposed to represent the negative, said plate being composed of glass, and the sensitized sheet is placed thereon in the usual manner and is held in position by the part *b*. It will be understood, however, that either side of the part *a* may be used for making pictures, either from negatives or by copying drawings or other pictures by sunlight, and various other processes of using the device herein shown and described will suggest themselves to any one familiar with the operation of devices of this class.

The groove a^5 in one side of the basic member *a* or in the side thereof in which the groove a^4 is formed is provided in order to adapt the device for use in copying only a part of a picture, and when it is desired to do this the glass panel *h* may be turned into the position shown in Fig. 3, in which position the ends thereof rest in the side portion of the groove a^5 instead of the groove a^4, and in this way a portion of a picture may be copied or a portion of a negative printed, and it will be understood that the glass panel *h* may be adjusted to any desired point longitudinally of the basic member *a*.

It will be understood, of course, that the parts *a* and *b* may be made of any desired dimensions, as may also the central opening a^2 in the part *a*, and by means of the construction of my improved printing-frame the whole or any part of a negative may be printed, or the whole or any part of a drawing or other picture may be copied.

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

1. A printing-frame, comprising two separate parts hinged together at one end, one of said parts being adapted to be folded from one side to the other of the other part, one of said parts being also provided with a central opening at each side of which is a rabbet-groove, and the other part being provided on its opposite side with bosses or projections adapted to enter said grooves, substantially as shown and described.

2. A device of the class described, comprising oblong plates hinged together at one end, one of said parts being adapted to be folded around the other so as to lie flush with either side thereof, one of said parts being also provided with a central opening around which at one side of said part is a rabbet-groove and around which at the opposite side of said part are two rabbet-grooves one of which incloses the other and is of greater dimensions, and the other part being provided at its opposite side with bosses or projections adapted to enter the grooves at the opposite sides of said opening, substantially as shown and described.

3. A device of the class described, comprising oblong plates hinged together at one end, one of said parts being adapted to be folded around the other so as to lie flush with either side thereof, one of said parts being also provided with a central opening around which at one side of said part is a rabbet-groove and around which at the opposite side of said part are two rabbet-grooves one of which incloses the other and is of greater dimensions, and the other part being provided at its opposite side with bosses or projections adapted to enter the grooves at the opposite sides of said opening, and one of which is of greater dimensions than the other, substantially as shown and described.

4. A device of the class described, comprising two parts consisting of oblong plates hinged together at one end so that one of said parts may be folded around the other and lie flush with either side thereof, one of said parts being also provided with a central opening around which at each side of said parts is a rabbet-groove, the other part being provided with bosses or projections adapted to enter said grooves and one of which is of less dimensions than the other, and a transverse plate adapted to be secured in one of said first-named grooves, substantially as shown and described.

5. A device of the class described, comprising two plates hinged together at one end in such a manner that one of said plates may be folded entirely around the other so as to lie flush with either side thereof, one of said plates being provided with a central opening around which is a groove and the other with a boss or projection adapted to fit in said groove, substantially as shown and described.

6. A device of the class described, comprising two plates hinged together at one end in such a manner that one of said plates may be folded entirely around the other so as to lie flush with either side thereof, one of said plates being provided with a central opening

around which is a groove and the other with a boss or projection adapted to fit in said groove, said plates being also provided at their free ends with handles, 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 9th day of January, 1905.

EDWARD R. PETRIE.

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