

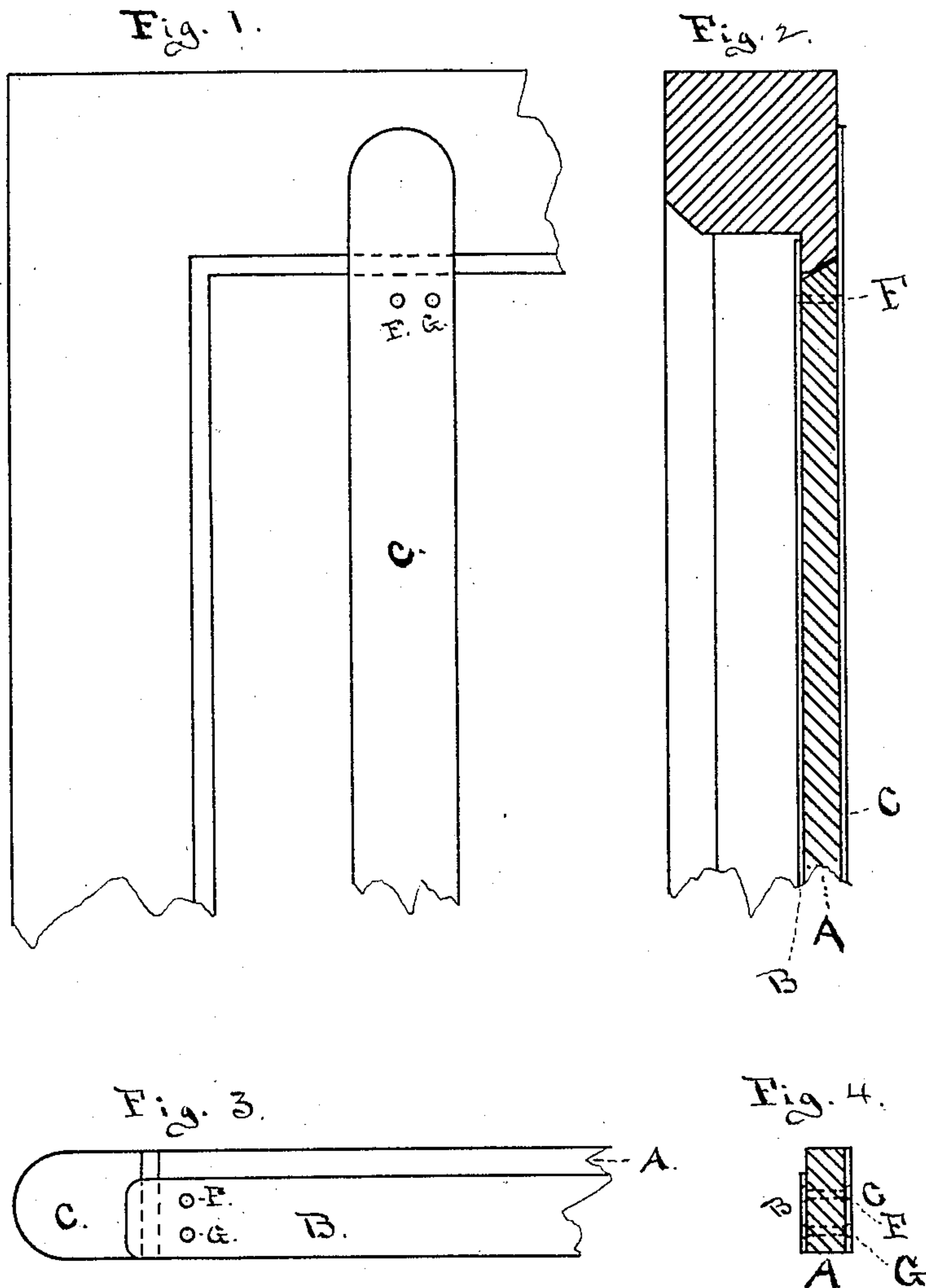
No. 748,085.

PATENTED DEC. 29, 1903.

G. E. MACKEY & M. J. RAUB.  
PHOTOGRAPHIC PRINTING FRAME.

APPLICATION FILED AUG. 5, 1903.

NO MODEL.



WITNESSES-

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# UNITED STATES PATENT OFFICE.

GEORGE E. MACKEY AND MAHLON J. RAUB, OF WHEELING, WEST VIRGINIA.

## PHOTOGRAPHIC-PRINTING FRAME.

SPECIFICATION forming part of Letters Patent No. 748,085, dated December 29, 1903.

Application filed August 5, 1903. Serial No. 168,257. (No model.)

*To all whom it may concern:*

Be it known that we, GEORGE E. MACKEY and MAHLON J. RAUB, citizens of the United States of America, residing at Wheeling, in the county of Ohio and State of West Virginia, have invented certain new and useful Improvements in Photographic-Printing Frames, of which the following is a specification.

10 This invention relates to improvements in photographic-printing frames, and is more especially directed to an attachment therefor designed to facilitate and allow the printing of photographic glass plates or negatives of smaller sizes in any photographic-printing frame.

20 The object of the present invention is to provide an attachment of the character mentioned which may be applied to photographic-printing frames with but slight cost and by the use of which plates of any smaller size may be printed in the same printing-frame without the necessity of providing a separate printing-frame for each and every different size of plate desired to be printed, and thereby materially decreasing the cost of equipment for the printing from photographic plates.

30 A further object of the present invention is the provision of the attachment consisting of a size-reducing bar which while in position forms a permanent side of the frame at the point where placed, thus holding the plate firmly in position, but which may be readily detached from the frame when desired.

35 A further object of the present invention is the provision of the two metal sides riveted to the bar of wood, the top metal side or plate being of less width than the other side or plate, thus forming, with the body of the bar, a groove for the photographic plate to rest in as a side of the frame when the attachment is in use.

45 A further object of the present invention is the provision of the two metal sides or plates riveted to the wooden body of the size-reducing bar, said metal plates being of greater length than the wooden body of the bar, the top plate or side projecting at each end past the wooden bar of sufficient length to permit its insertion in the inner side or portion of the said printing-frame and the

other metal side or plate projecting or extending at each end from the end of the wooden or center portion of the bar a sufficient distance toward the outer edge of the frame when in use to keep its position where placed.

With these general objects in view and others which will appear as the nature of the improvement is better understood the invention consists, substantially, in the novel construction, combination, and arrangement of parts, which will be hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the appended claim.

While the forms of the invention herein shown and described are what are believed to be preferable embodiments thereof, it is to be understood that the same are susceptible of various changes in the form, proportion, and minor details of construction, and the right is therefore reserved to modify or vary the invention as falls within the spirit and scope thereof.

75 In the drawings, Figure 1 is a front elevation of a photographic-printing frame provided with the size-reducing bar constructed in accordance with the present invention. Fig. 2 is a vertical transverse sectional view thereof. Fig. 3 is a top plan view of one end of the present invention, both ends being similar. Fig. 4 is a vertical transverse sectional view of the form shown in Fig. 3.

Referring to the drawings, the numeral 1 designates the view of part of an ordinary photographic-printing frame of the ordinary construction, but is provided with the size-reducing bar, (the present invention.)

90 Fig. 3 represents the top inner side view of one of the ends of the size-reducing bar, (the present invention,) which ends are similar, showing the wooden body or bar A covered by the metal plates or sides B and C. The ends of the metal sides or plates B and C extend past the wooden body or bar A at each end thereof long enough to hold the bar A in position for printing when placed in a printing-frame, the ends of the top metal side B only extending past the ends of the bar A a sufficient length to permit the insertion of the attachment (the present invention) in a



printing-frame and to allow of its movement along the sides thereof. The top side or metal plate of the attachment is a little less in width than the other side or plate, which is the same width as the bar or body of wood, thereby forming a groove for the plate or negative to rest in when printing.

The metal sides or plates B and C in Fig. 3 are riveted to the bar or body A at the points F and G, allowing the ends of C and B to slide along the side or end of the printing-frame for adjustment at a desired position. When it is desired to print from a small photographic glass plate or negative in a large photographic-printing frame, the size-reducing bar (the present invention) is placed in the frame and moved along the ends or sides thereof to a position fitting the plate to be printed, when the process of printing may be accomplished as with a printing-frame made for only one size of plate, as the size being printed.

Having thus described the invention, what

is claimed as new, and desired to be secured by Letters Patent, is—

An attachment for photographic-printing frames, comprising a bar of wood or similar substance having riveted to the top and bottom sides thereof, plates of metal, the top metal plate being of a little less width than the body or bar of wood to which riveted, the other metal plate or side being of the same width as the bar, the ends of the metal sides extending beyond the ends of the bar a sufficient length to hold the bar in position when placed between the ends or sides of a photographic-printing frame.

In testimony whereof we affix our signatures in presence of three witnesses.

GEORGE E. MACKEY.  
MAHLON J. RAUB.

Witnesses:

NELLIE G. HENRY,  
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JAMES A. HENRY.