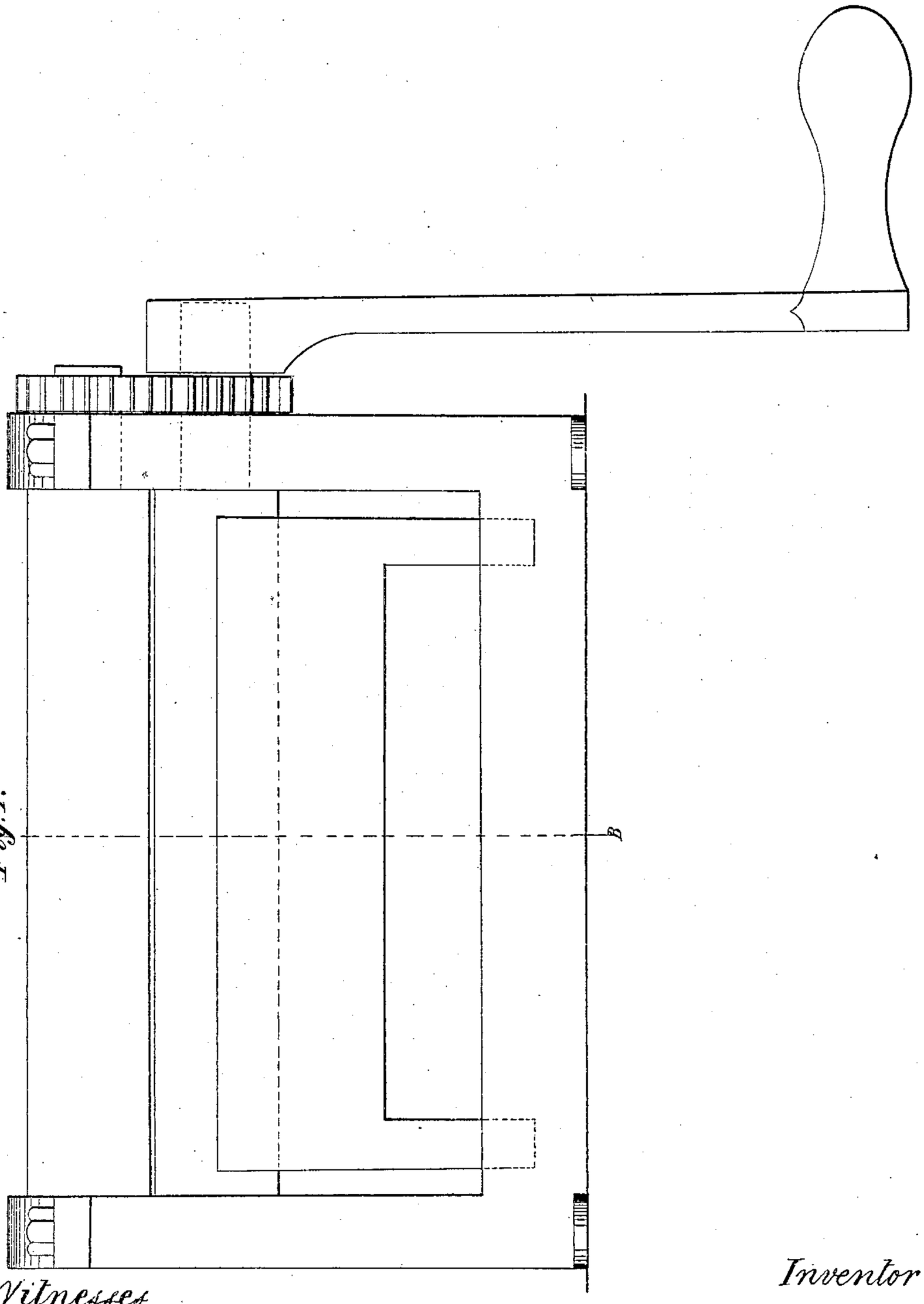
Sheet 1- 2 Sheets

W. J. Gordon,

Photographic Burnishing Press,

No. 59,507. Patented Nov. 6, 1866.



Witnesses

James Gotler

Geo. M Taylor

Inventor

W J Gordon

Sheet 2 - 2 Sheets.

W. J. Gordon,

Photographic Burnishing Press,

No. 59,507, Patented Nov. 6, 1866.

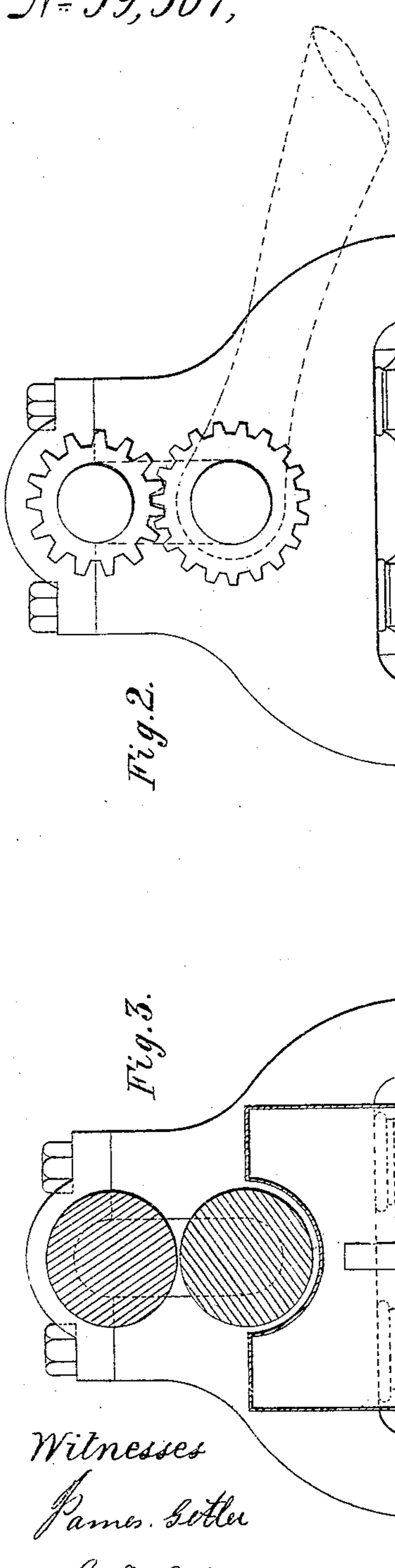


Fig. 2.

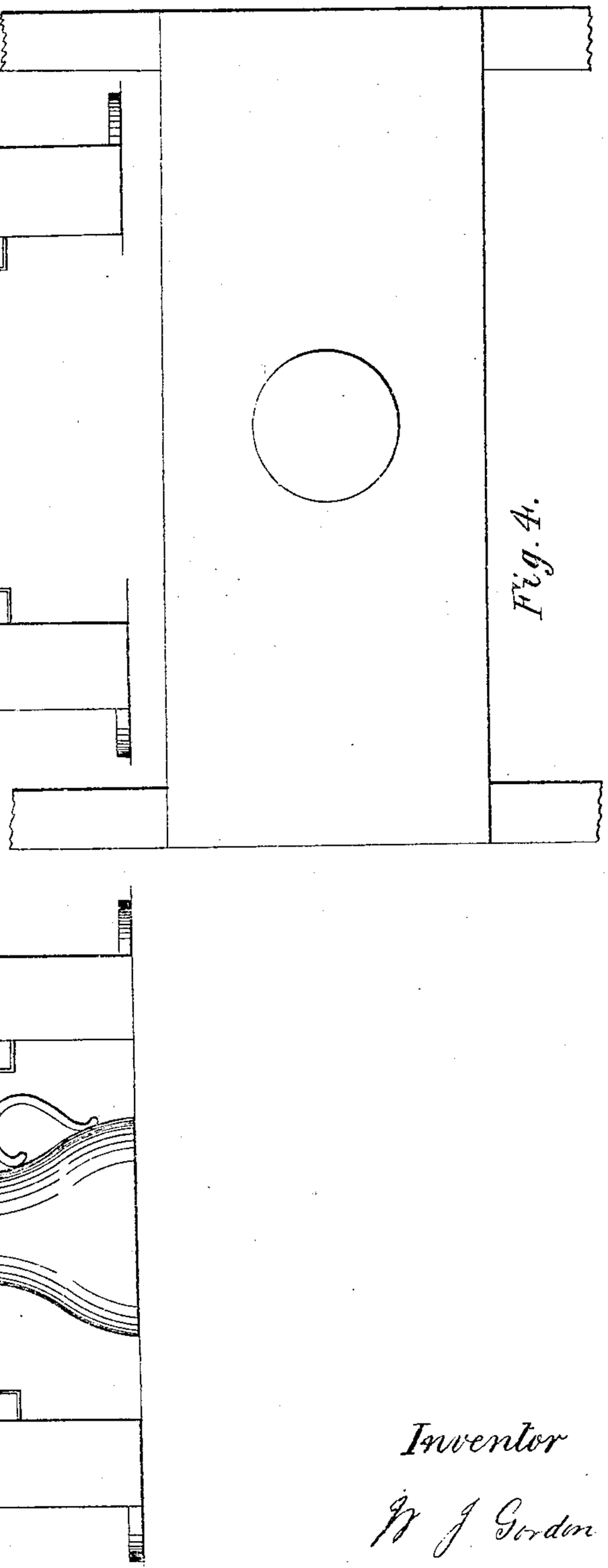


Fig. 4.

Fig. 3.

Witnesses

James. Geddes

Geo. W. Taylor

Inventor

W J Gordon

UNITED STATES PATENT OFFICE.

W. J. GORDON, OF PHILADELPHIA, ASSIGNOR TO JOHN HAWORTH, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN ROLLERS FOR FINISHING PHOTOGRAPHS.

Specification forming part of Letters Patent No. **59,507**, dated November 6, 1866.

To all whom it may concern:

Be it known that I, W. J. GORDON, of Philadelphia, in the State of Pennsylvania, have invented a new and Improved Mode of Communicating Heat to the Cylinders or Rollers of Photographic and other Presses; and I do hereby declare that the following is a full and accurate description thereof.

The nature of my invention consists in interposing some thin metallic substance between the flame of the lamp or gas and the lower cylinder or roller of the press. This I do by placing beneath the lower roller a metallic box, the top of which is concave, as is shown by the blue line in Figure No. 3 of accompanying diagram. The concavity in the top of the box is made to correspond with the convexity of the lower roller, so that the roller shall revolve in the concavity of the top of the box, and be as close as possible to it without touching said box. This box is to be made of tin, brass, or other metal rolled thin, so that the heat may be rapidly conducted through from the flame to the roller. The same result may be obtained by using a concave metal plate between the flame and the roller, and I had it in use for some time, but found that it did not sufficiently prevent the soiling of the roller by the smoke, &c., and therefore substitute the box, which does completely keep the flame from the roller, and at the same time allows the heat to pass to it. On the lower side or bottom of the box there is an opening (see Fig. 4) for introducing the lamp or jet of gas, and on the top of the box an opening or chimney to allow the heated air to escape from within the box. To the bottom of the box are soldered strips of tin or other metal, *c c*, Fig. 2, to support it on the castings of the press, or they may be made longer, so that it can rest on the floor or stand. The box extends beneath the lower roller its whole length, if required, and the roller revolves in the concave top of the box, as seen, Fig. No. 1, in which the dotted line represents the lower roller in the concave top of the box.

The accompanying drawings exhibit the mode of applying the sheet or box, and the flame of the lamp or gas for heating the same.

Fig. 1 represents a side view of box as applied to a photographic press. Fig. 2 shows an end view of a photographic press with heating-box attached. Fig. 3 shows section of heating-box through center of Fig. 1. Fig. 4 shows heating-box from below, with opening for flame of lamp or gas.

What I claim, therefore, as my invention, and desire to secure by Letters Patent, is—

The mode of communicating heat to the cylinders or rollers of photographic or other presses by means of the application of heat to a thin metallic plate or heating-box, which is placed in close proximity to said rollers or cylinders, as described in the accompanying drawings, or any other substantially the same.

WM. J. GORDON.

Witnesses:

JAMES GETLER,
GEO. W. TAYLOR.