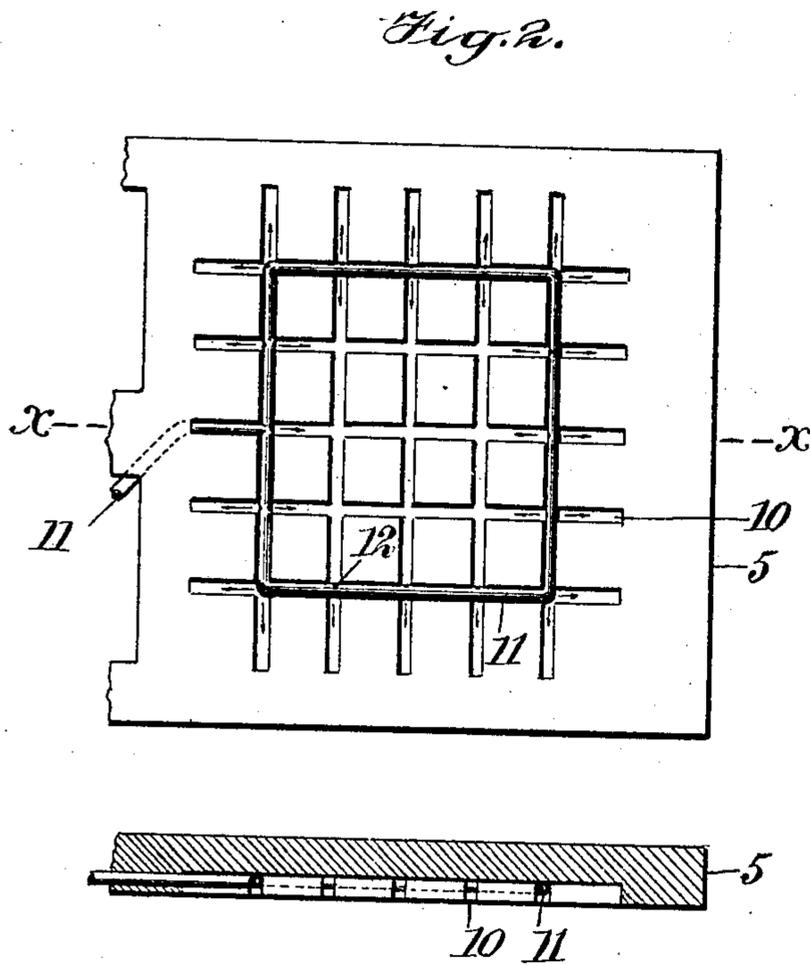
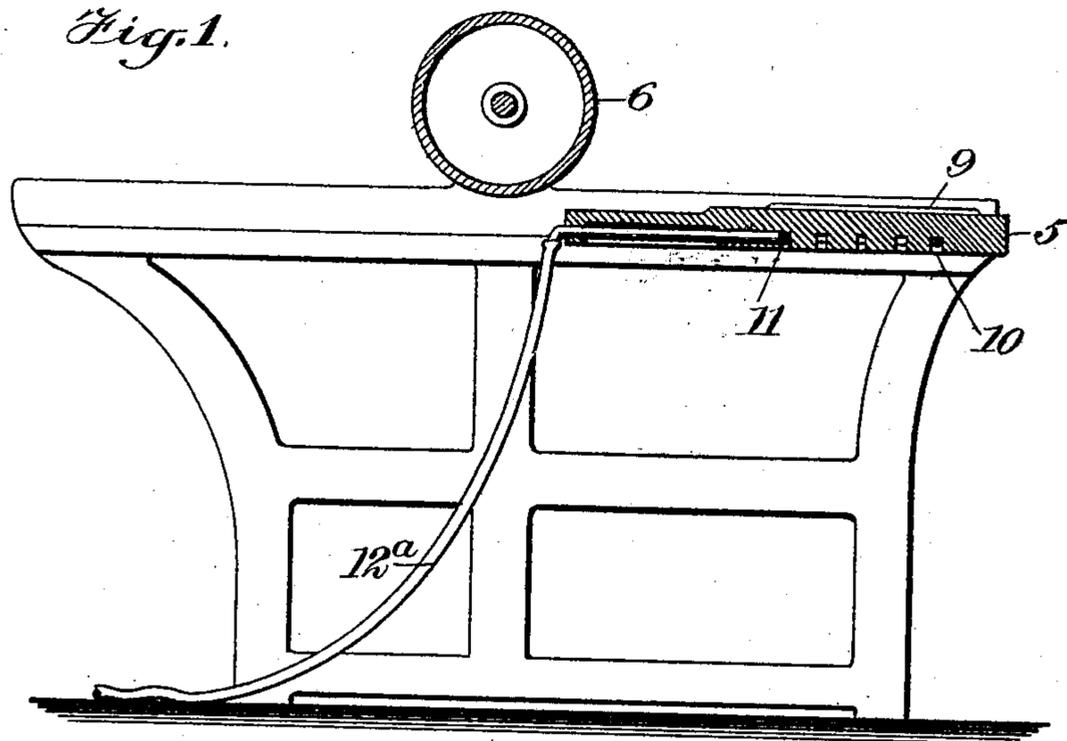


No. 774,081.

PATENTED NOV. 1, 1904.

G. H. KENDALL.
HEATER FOR PRINTING PLATES.
APPLICATION FILED MAR. 16, 1904.

NO MODEL.



WITNESSES:
Geo. M. Taylor
C. R. Ferguson

Fig. 3.

INVENTOR
George H. Kendall
BY
W. W. Munn
ATTORNEYS

UNITED STATES PATENT OFFICE.

GEORGE HOVEY KENDALL, OF NEW YORK, N. Y.

HEATER FOR PRINTING-PLATES.

SPECIFICATION forming part of Letters Patent No. 774,081, dated November 1, 1904.

Application filed March 16, 1904. Serial No. 198,478. (No model.)

To all whom it may concern:

Be it known that I, GEORGE HOVEY KENDALL, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Heater for Printing-Plates, of which the following is a full, clear, and exact description.

This invention relates particularly to improvements in means for heating the engraved steel plates in printing-presses, the object being to provide a heater carried by the press bed-plate whereby the printing-plate is kept heated at a practically uniform temperature.

I will describe a heater for printing-plates embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal section through the bed-plate of the printing-press and a heater embodying my invention seated thereon. Fig. 2 is a bottom plan view thereof, and Fig. 3 is a section on the line $x-x$ of Fig. 2.

Referring to the drawings, 5 designates a reciprocating bed-plate of a press for printing from steel engraved plates, and 6 is the usual impression-roller. The printing-plate 9 is designed to be placed on the bed-plate over a heater, now to be described. The under side of the bed-plate is provided with crossed communicating channels 10, in certain of which is a heater, here shown as a gas-burner, consisting of a pipe 11 above the bottom of bed-plate and having lateral perforations 12 through which the gas escapes. The gas is led to the burner through a flexible tube 12^a, leading from the source of supply. It may

be here stated, however, that other forms of heating device may be employed without departing from the spirit of my invention.

The channels 10 not only provide means for air circulation to support combustion, but by receiving the gas-pipe prevent the pipe from contacting with the bottom roll of the press, and by so placing the burner-pipe the gas-flames are protected from varying air-currents which would cause flickering or uneven jets. As the heater is carried back and forth with the bed-plate it is obvious that a practically uniform heat will be maintained in the plate.

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

1. In a plate-printing press, a bed-plate having intersecting channels in its under face, and a heater carried by the bed-plate above the plane of the bottom thereof.

2. In a plate-printing press, a bed-plate having intersecting channels in its under side, and a heating device arranged in certain of said channels.

3. In a plate-printing press, a bed-plate having crossed channels in its under side, and a gas-burner arranged in certain of said channels above the bottom plane of the bed-plate.

4. In a plate-printing press, a bed-plate having intersecting channels in its under side, and a perforated gas-tubing arranged in certain of said channels above the bottom plane of the bed-plate.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE HOVEY KENDALL.

Witnesses:

KARL GLEASON,
JOHN B. FISCHER.