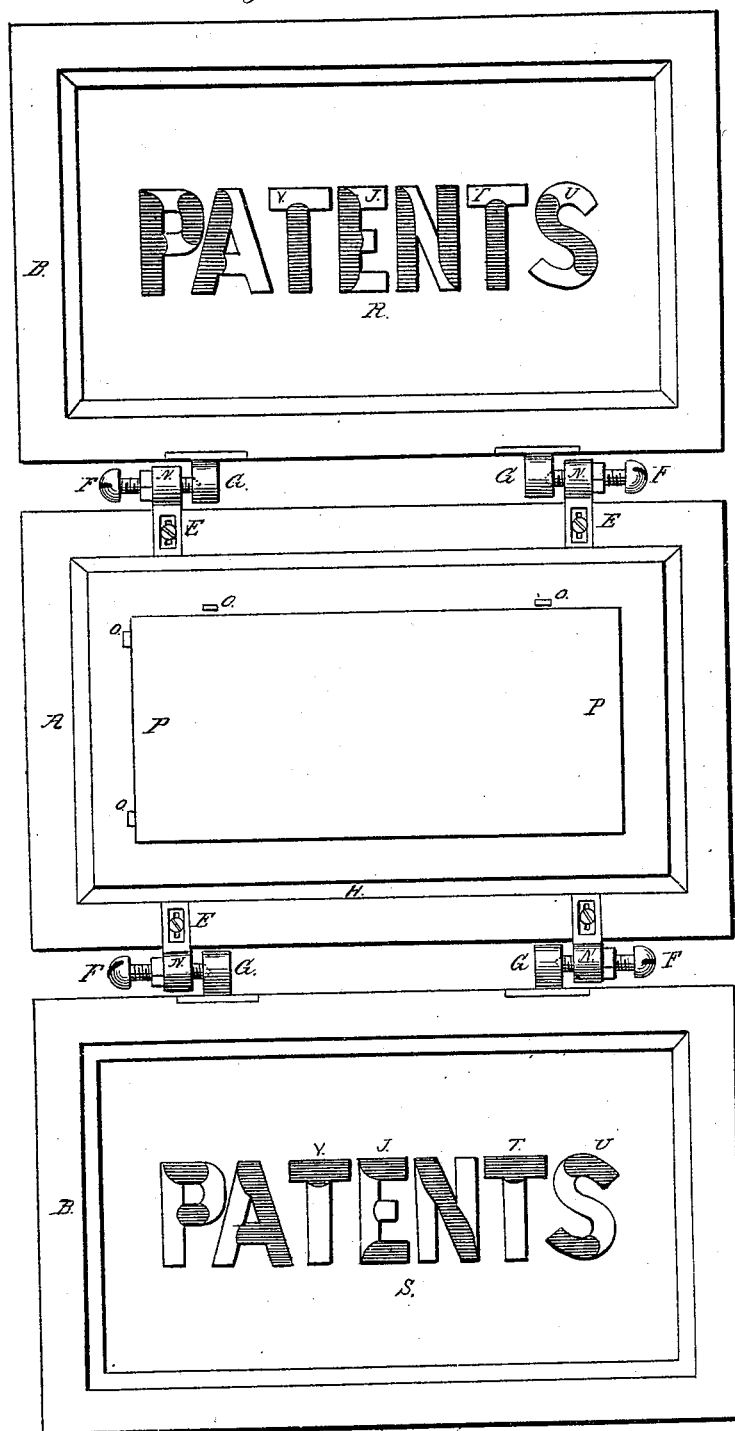


*H. W. Rudolf. Sheet 1 of 2 Sheets.*  
*Printing Press.*

*N<sup>o</sup> 106,872. Patented Aug. 30, 1870.*

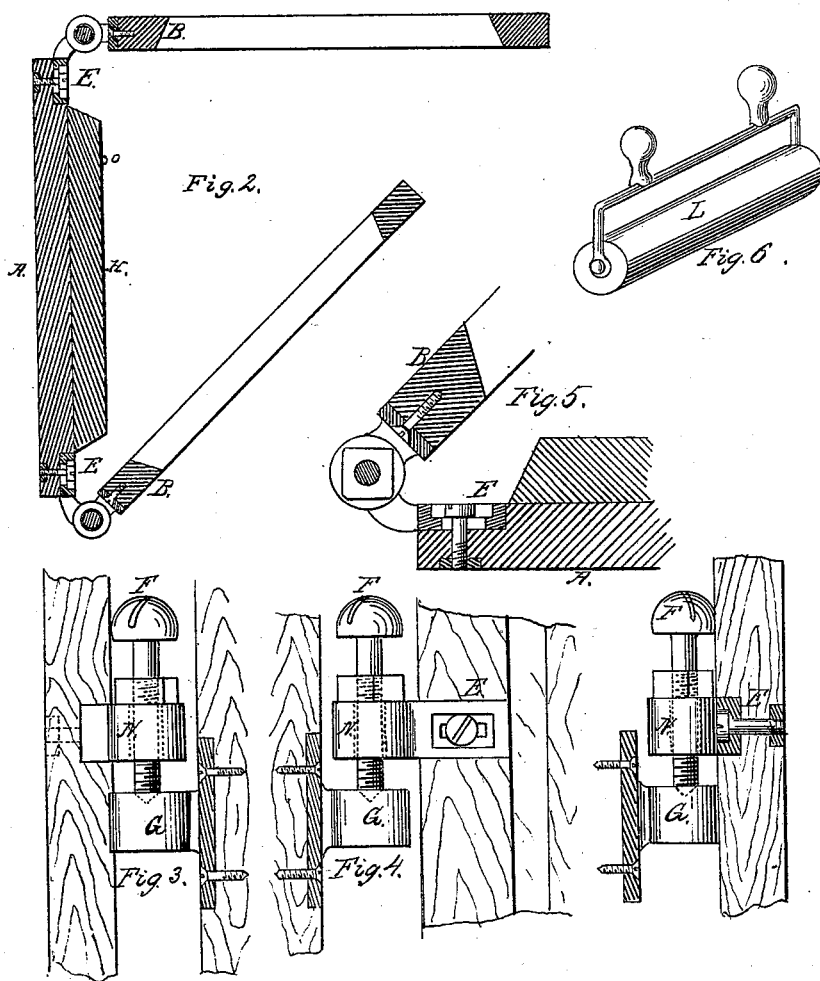
*Fig: 1*



*Witnesses:*  
*Rudolph Finger*  
*Nicholas Finger*

*Inventor:*  
*Henry W. Rudolf*

*H. W. Rudolf. Sheet 2 of 2 Sheets.*  
*Printing Press.*  
*N<sup>o</sup> 106,872. Patented Aug. 30, 1870.*



*Witnesses.*  
*Rudolph Finger*  
*Nicholas Finger*

*Inventor.*  
*Henry W. Rudolf*

# United States Patent Office.

HENRY W. RUDOLF, OF LOUISVILLE, KENTUCKY.

Letters Patent No. 106,872, dated August 30, 1870.

## IMPROVEMENT IN PRESSES FOR STENCIL-PRINTING.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, HENRY W. RUDOLF, of the city of Louisville, county of Jefferson, and State of Kentucky, have invented a new and useful Invention or Improvement in "Crystalotyping, or Printing on Glass or other hard substances;" and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the drawing and to the letters of reference marked thereon.

The nature of my improvement consists more especially in the use of two plates or forms, made of paper, with only a part of the letters cut in either, so that, when the two combined are placed in their proper positions on the press, they will form a perfect letter, the connecting points of the letters in the forms, where they are intended to match, being cut in the shape of miters and half circles, so as to overlap each other, in order to make the connections perfect, and thereby produce letters with perfectly smooth, sharp outlines when the coloring is applied, which is done with the ordinary printers' type-roller, and with oil coloring.

My invention also further consists in the peculiar construction of the press, with adjustable hinges for operating the above forms.

To enable others skilled in the art to make and use my improvement, I will proceed to describe its construction and operation by reference to the drawing and to the letters of reference marked thereon.

Figure 1 is a top view of the press when open and ready for use.

Figure 2 is an end view of the same, partially open.

Figure 3 is a view of one hinge, complete.

Figure 4 is a view of the hinge, showing the slotted end, by means of which it is adjusted.

Figure 5 is an edge view of the slotted hinge N.

Figure 6 is a view of the type-roller.

Having thus explained the different figures in the drawing, I will proceed to describe them more fully in detail by reference to fig. 1, in which—

A is the bottom of the press-frame, which is made of wood, except the hinges.

H is the raised center.

P P is the cushion, which is made of paper, and on which the article to be printed on is placed.

O O O O are the small guides, by means of which the article to be printed on is kept in its proper place,

so as to effect a perfect connection of the different parts of the letters, as made by the two forms R and S.

B B are the two leaves of the press, which are made to fold down and fit neatly over the raised center H, leaving some play, in order to adjust the forms properly, so as to make the connections in the letters perfect and to which the forms are attached.

G G G G and N N N N are the different parts of the adjustable hinges, which are made of iron.

F F F F are set-screws in the hinges, working on centers, for the purpose of adjusting the leaves B B, in order to make the forms index correctly, said screws being prevented from turning by jam-nuts.

R and S are the stencil-plates or forms, which are made of paper, with only part of the letters cut in either, as shown by the black lines in one and by the white spaces in the other, the connecting parts of the letters in each form being cut into miters and half circles, as shown by V, J, T, and U, in the plates R and S, in order that the impressions may overlap each other, preventing imperfect connection, and by means of which letters with perfectly smooth, sharp outlines are produced.

Having fully described the construction of my improvement, its operation is simply that of placing the article to be printed on on the cushion P P, close up against the guides O, after which close down one of the leaves B B, containing the form on it, and apply the coloring with the roller L, the same as in printing, after which raise the first leaf from the work and close down the other on it, and use the same process in applying the color, and the process is completed; therefore—

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

1. The folding-press A, with the raised center or bed H, and the guiding-stops O O O O, the paper cushions P P, and the adjustable hinges N G, with their slots E E E E and set-screws F F F F.

2. The paper stencil-plates or forms R and S, with only a portion of each letter cut in them.

HENRY W. RUDOLF.

Witnesses:

RUDOLPH FINZER,  
NICHOLAS FINZER.