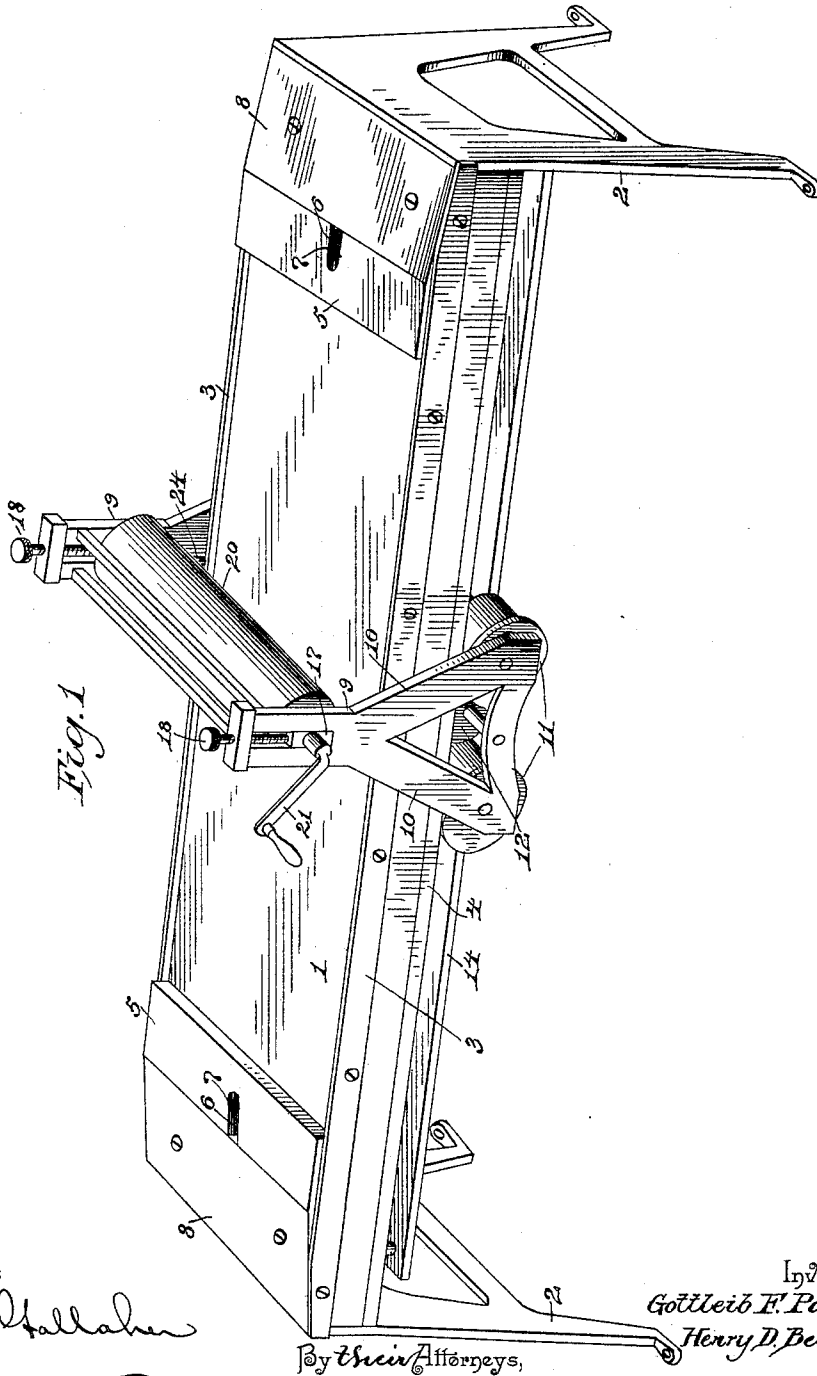


2 Sheets—Sheet 1.

PRESS FOR PRINTING WOOD SIGNS.

Patented Oct. 6, 1891.



Witnesses

L. M. Hallahan

By
Wm. Bagger

Inventors

Goßleib F. Palm

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By their Attorneys,

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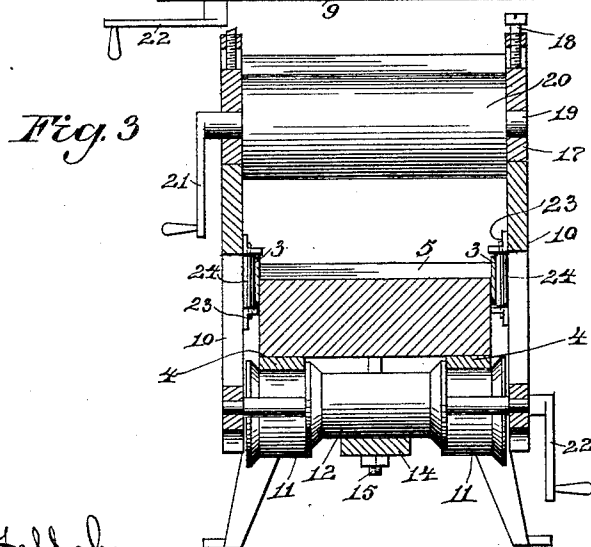
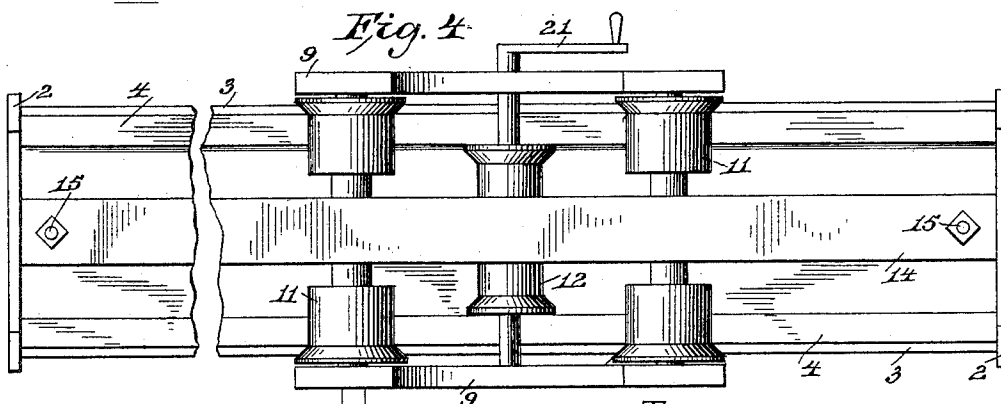
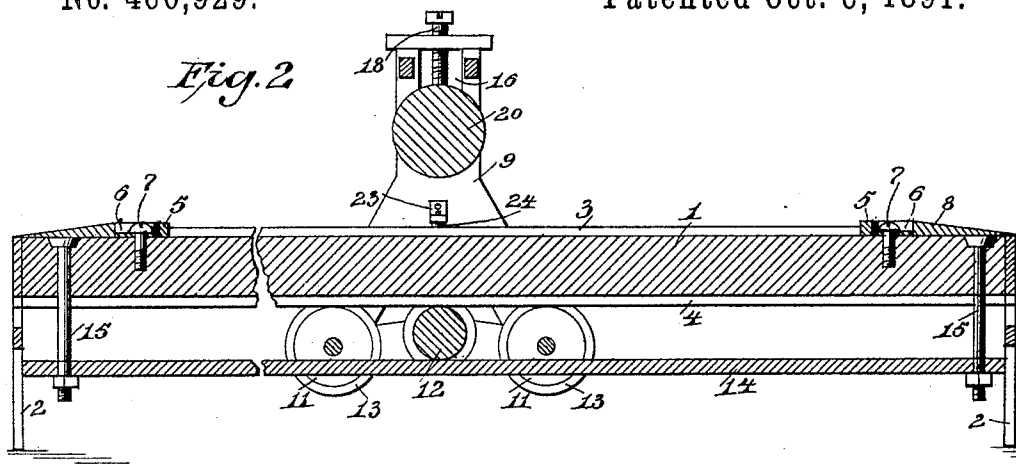
(No Model.)

2 Sheets—Sheet 2.

H. D. BEACH & G. F. PALM.
PRESS FOR PRINTING WOOD SIGNS.

No. 460,929.

Patented Oct. 6, 1891.



Witnesses

E. M. Gallahan

Wm. Baggett

By their Attorneys,

C. A. Snow & Co.

Inventors
Gottlieb F. Palm
Henry D. Beach

UNITED STATES PATENT OFFICE.

HENRY D. BEACH AND GOTTLEIB F. PALM, OF COSHOCTON, OHIO, ASSIGNORS,
BY DIRECT AND MESNE ASSIGNMENTS, TO THE STANDARD ADVERTISING
COMPANY, OF SAME PLACE.

PRESS FOR PRINTING WOOD SIGNS.

SPECIFICATION forming part of Letters Patent No. 460,929, dated October 6, 1891.

Application filed December 31, 1890. Serial No. 376,411. (No model.)

To all whom it may concern:

Be it known that we, HENRY D. BEACH and GOTTLEIB F. PALM, citizens of the United States, residing at Coshocton, in the county of Coshocton and State of Ohio, have invented a new and useful Press for Printing Wood Signs, of which the following is a specification.

This invention relates to presses or machines for printing wooden signs; and it has for its object to provide an apparatus of this class which shall be simple in construction and by which wooden signs of various sizes may be easily, rapidly, and accurately printed from ordinary type, and which shall be simple in construction and easily manipulated.

The invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a perspective view showing the press constructed in accordance with our invention. Fig. 2 is a longitudinal vertical sectional view of the same. Fig. 3 is a vertical transverse sectional view taken through the rolling carriage and through the bed of the machine. Fig. 4 is a bottom plan view.

Like numerals of reference indicate like parts in all the figures.

The bed of our improved machine, which in the drawings is designated by 1, is mounted upon suitable legs or supports 2 2 at each end of said bed. The sides of the latter are provided with cleats or flanges 3 3, and upon the under side of the bed at or near the edges are arranged similar cleats or strips 4, forming tracks or guides for the movable carriage, as will be presently more fully described. Near the ends of the bed, upon the upper side of the latter, are arranged the longitudinally-adjustable plates 5, having slots 6 to receive the screws 7, by means of which they are held in position. The ends of the bed are provided with beveled inking-plates 8, arranged adjacent to the adjustable supporting-plates 5.

9 designates the movable carriage, the frame of which is composed of side pieces 10 10, the

lower ends of which have bearings for the rollers 11, 11, and 12, which latter is arranged between the rollers 11. The latter are provided with annular flanges 13, adapted to bear against the guide strips or tracks 4 upon the under side of the bed 1. The roller 12 is arranged to travel upon a supporting-strip 14, which is suspended or secured a suitable distance underneath the bed 1 by means of vertical bolts 15, or the said supporting-strip may be suitably attached to the legs or supports 2 of the machine. By this construction it will be seen that the movable carriage is at all times held up against the under side of the bed of the machine.

The upper ends of the side pieces 10 10 of the frame of the movable carriage are provided with slots 16, in which are mounted the vertically-sliding boxes 17, which may be forced in a downward direction by means of the set-screws 18. The boxes 17 have bearings or a shaft 19, carrying the impression-roller 20. The shaft 19 is provided at one end with an operating-crank 21, and a crank 22 may also be mounted upon the end of one of the shafts carrying the rollers 11.

The sides of the frame 9 are provided with laterally-extending brackets 23, in which are journaled anti-friction rollers 24, adapted to bear against the outer sides of the cleats or strips 3.

The operation of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The form is placed upon the bed of the machine, which practically forms a galley, in which the form may be locked by means of the adjustable plates 5. The latter form supports upon which the impression-roller 20 may rest after each impression. The inking is done by hand, the beveled or inclined plates 8 serving as inking-tables where the ink may be distributed in the usual manner. The sign-boards which are to be printed are placed upon the type after the latter has been inked, and the movable carriage is caused to pass over them, the pressure of the impression-roller being regulated by means of the set-screws 18, thus enabling any difference in

the thickness of the sign-boards to be compensated for. One or more sign-boards may be printed at a single impression, according to the size of said sign-boards with relation to the bed of the machine. Owing to the supporting-strip 14, the carriage may be passed over the bed of the machine without bringing the impression-roller in contact with the type. The general construction of the machine is very simple and inexpensive, and it may be easily and efficiently operated.

A modification of our invention which will readily suggest itself consists of making the frame having the rollers 11 and the impression-roller 20 stationary and permitting the bed of the machine to move longitudinally between said rollers. The construction of the machine embodying said modification would involve merely the skill of a mechanic, and we reserve the right to this and to any other modifications which may be resorted to without departing from the spirit of our invention.

Having described our invention, what we claim is—

1. In a machine of the class described, the combination of the bed provided at each end with inclined inking-plates, the longitudinally-movable carriage having the vertically-adjustable impression-roller, the longitudinally-movable adjustable locking-plates having vertical screw-receiving slots located and working at each end of said bed adjacent to the opposite inclined inking-plates, and mechanism for moving the said carriage longitudinally with relation to the bed, substantially as set forth.

2. In a machine of the class described, the combination of the bed, the longitudinal guide-strips upon the under sides of said bed, the longitudinal supporting-strip suspended or supported under the said bed, and the frame or carriage having the impression-roller and provided with rollers bearing against the guide-strips upon the under side of the bed and upon the supporting-strip, substantially as and for the purpose set forth.

3. In a machine of the class described, the combination of the bed, the supporting-strip suspended or supported longitudinally under the bed, the longitudinally-movable frame or carriage having rollers adapted to bear against the under side of the rail and an additional roller traveling upon the supporting-strip, the impression-roller journaled in boxes mounted adjustably in vertical slots in the sides of the frames or carriage, and set-screws arranged to force the said boxes in a downward direction, substantially as and for the purpose set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

HENRY D. BEACH.
GOTTLEIB F. PALM.

Witnesses:

J. H. SIGGERS,
R. W. DAYTON.