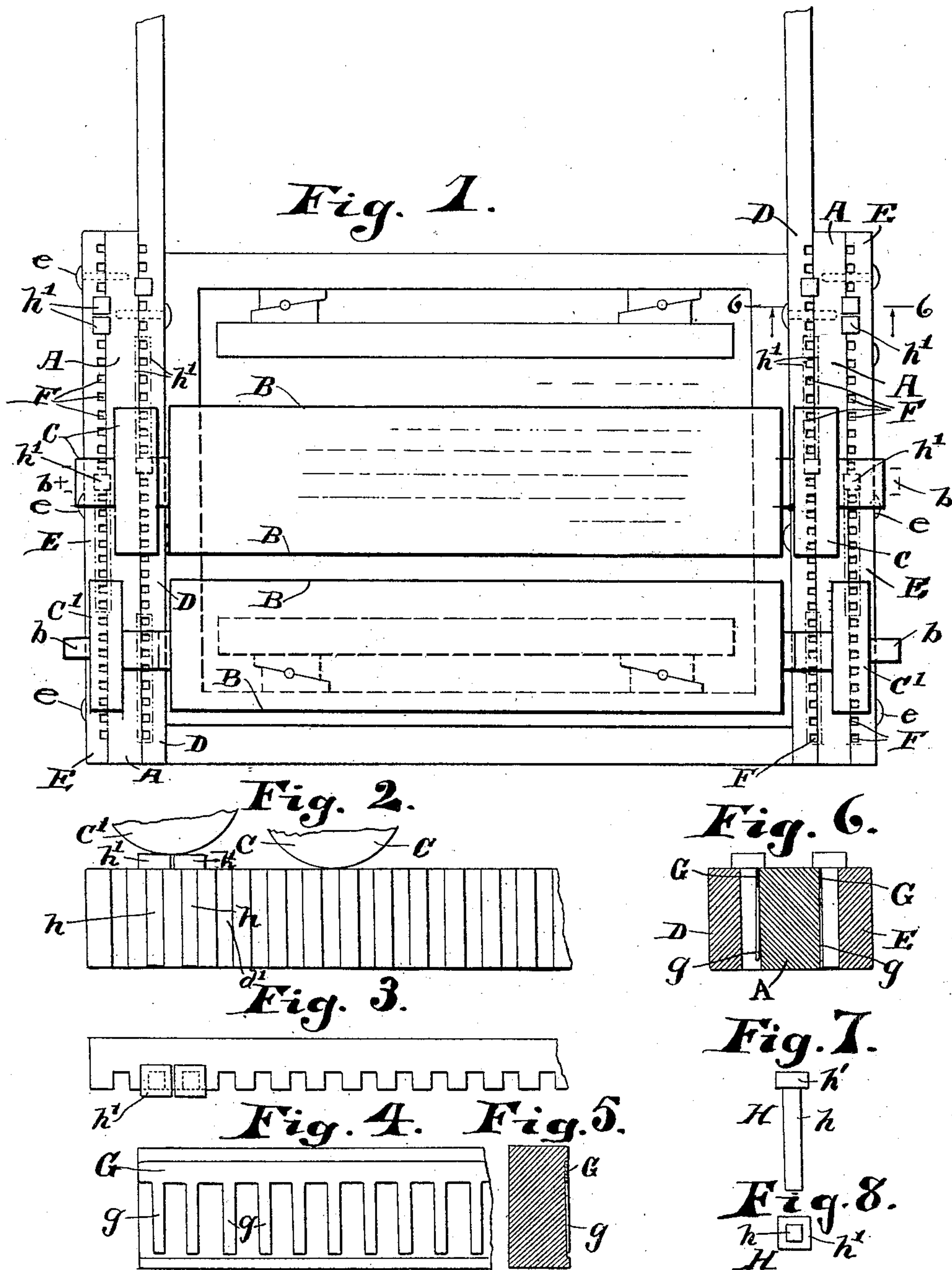


No. 835,637.

PATENTED NOV. 13, 1906.

C. L. POST.
PRINTING PRESS.

APPLICATION FILED MAY 2, 1906.



Witnesses:

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UNITED STATES PATENT OFFICE.

CLAUDE L. POST, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE POST COLOR PRESS COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO.

PRINTING-PRESS.

No. 835,637.

Specification of Letters Patent.

Patented Nov. 13, 1906.

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To all whom it may concern:

Be it known that I, CLAUDE L. POST, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Printing-Presses, of which the following, when taken in connection with the drawings accompanying and forming a part hereof, is a full and complete description sufficient to enable those skilled in the art to which it pertains to understand, make, and use the same.

This invention relates particularly to the tracks, abutments, or cams thereon and rollers of a multicolor-printing press—that is, a printing-press wherein more than one color of ink is spread on the type-form from which impressions are made.

The object of this invention is to obtain what may be termed a “three-way” track for the rollers which are placed on the ends of the inking-rolls to control the color of ink distributed on the inking-rolls and from them to the type-form, and, further, to obtain three-way tracks of the kind named provided with means to readily place thereon abutments arranged to raise the rollers and inking-rolls as they pass over the same in the operation of the press.

A further object of the invention is to obtain mechanism which may be readily attached to the tracks of an ordinary printing-press already in use for one-color ink, and thereby a three-way track be obtained suitable for the use of the press as a multicolor-press.

In the drawings referred to, Figure 1 is a front view of the bed of a printing-press with tracks thereon embodying this invention. Fig. 2 is an elevation on an enlarged scale of one of the recessed metal strips which are secured to the roller-track of a printing-press to obtain a three-way roller-track. Fig. 3 is a top plan view of the recessed strip arranged to be secured to an existing roller-track of a printing-press. Fig. 4 is an elevation of a comb made of spring metal, as spring sheet-brass, secured in place to have the teeth thereof located in the recesses of the metal strip, which is attached thereover to the existing roller-track of the printing-press. Fig. 5 is a cross-section of the track and comb illustrated in Fig. 4. Fig. 6 is a cross-section

on line 6 6 of Fig. 1 of a three-way track embodying this invention. Fig. 7 is an elevation of an abutment removably attachable to the three-way track embodying this invention, and Fig. 8 is a bottom plan view of the abutment illustrated in Fig. 7.

A reference-letter applied to designate a given part is used to indicate such part throughout the several figures of the drawings wherever the same appears.

A A are the tracks for the rollers of inking-rolls heretofore placed along the sides of the bed or platen of ordinary printing-presses to maintain the periphery of the inking-rolls of the press in proper position relative to the type-form inked thereby.

B B are broken lines, Fig. 1, to indicate inking-rolls, and C C, Fig. 1, are broken lines to indicate rollers on the axles *b b* of inking-rolls B B.

D D and E E are additional tracks alongside of tracks A A, respectively, and are obtained by securing recessed pieces, Figs. 2 and 3, in place against the tracks A A, as by bolts or screws *e e*.

The apertures in the three-way track embodying this invention are lettered F F.

The track D D may extend beyond the bed of the press and alongside of the inking-disks; but such extension forms no part of this invention.

G is a strip provided with spring-teeth *g g*. Strip G is preferably made of spring metal, as brass, and is secured in place between the sides of tracks A A, respectively, and the pieces attached thereto to form the tracks D E in such manner that the spring-teeth thereof are within the apertures F F—that is, one of such spring-teeth is contained in each one of such apertures.

H H are abutments provided with body part *h* and head *h'*, respectively. Body part *h* of abutments H H fits into the respective apertures F F, coming in contact with the teeth *g g* of spring G and heads *h'* of such of the abutments which are inserted in apertures F F of track D come in contact to rest on such track, while those thereof inserted in the apertures of track E rest thereon.

It will be observed that the rollers C C are of sufficient width to travel on two of the tracks A, D, and E, and when such rollers are placed with the hub thereof adjacent to the

inking-roll on the axle whereof it is placed such roller travels on tracks A and D, and when oppositely placed on an inking-roll it travels on tracks A and E.

5 Tracks D and E are preferably of the same level as track A; but in no case should they be higher.

It will be observed that the head h' of abutment H is larger than body part h thereof
10 and that thereby a shoulder is obtained which extends over and rests on the track A. It will also be observed that whenever a series of abutments H H are placed in adjacent apertures G G an elevated track is obtained for
15 the roller running thereover and that the length of the elevated track is determined by the number of the abutments so placed.

When the roller on the axle of an inking-roll is traveling on or over an elevated track
20 obtained as described, such inking-roll is raised from the type-form and does not ink the same. An inking-roll having a determined color of ink thereon is thus made to come in contact with a desired part of the
25 type-form and with such part only. In this manner some parts of the type-form are inked with ink of one color and other parts thereof are inked with ink of a different color.

The several abutments are held in place by
30 the springs in the apertures, but may sever-

ally be easily withdrawn from one aperture and placed in a different one.

By retaining track A the three-way track embodying my invention is easily constructed in the manner described of the proper
35 height relative to the bed of the press.

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

1. In a printing-press, a three-way track
40 comprising recessed strips secured to the sides of a central track, in combination with a spring provided with a plurality of teeth, such teeth respectively corresponding with the recesses in the first-named strips; sub-
45 stantially as described.

2. In a printing-press, a three-way track comprising recessed strips secured to the sides of a central track, in combination with
50 a spring provided with a plurality of teeth, such teeth respectively corresponding with the recesses in the first-named strips, and abutments, the body parts whereof fit into the respective recesses and the heads where-
55 of rest upon two of the tracks; substantially as described.

CLAUDE L. POST.

In presence of—

CHARLES TURNER BROWN,
CORA A. ADAMS.