

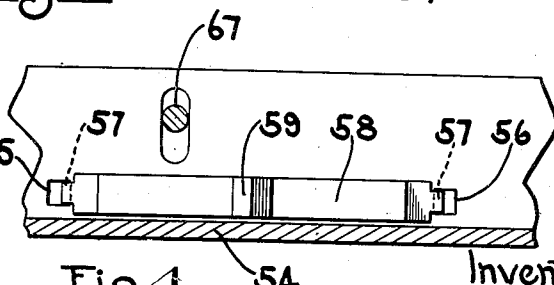
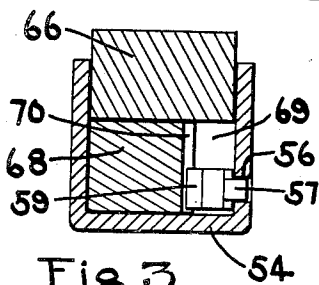
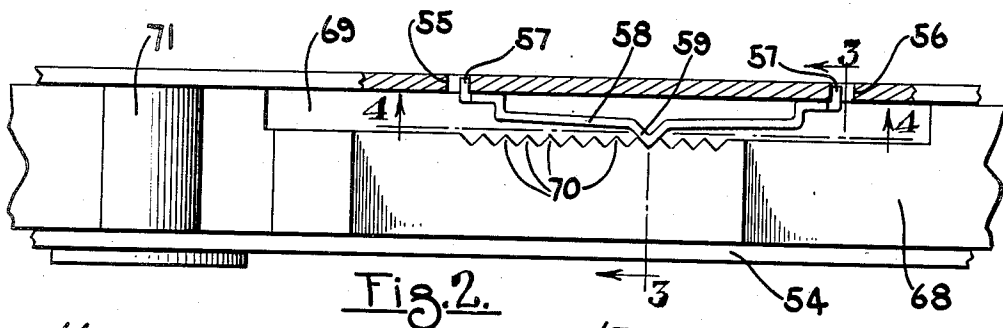
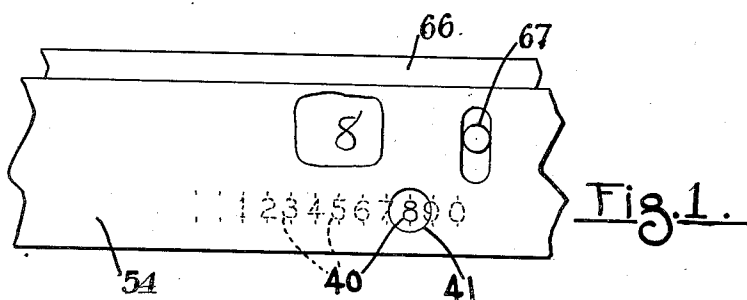
June 4, 1935.

J. E. LEE ET AL

2,003,597

PRINTER'S QUOIN

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Inventors
James Edgar Lee
Olaf T. Gylleck
Freeman Barney
By *Liverance & Van Antwerp*
Attorneys

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2,003,597

PRINTER'S QUOIN

James Edgar Lee, Olaf T. Gylleck, and Freeman Barney, Grand Haven, Mich., assignors to The Challenge Machinery Company, Grand Haven, Mich., a corporation of Michigan

Application August 2, 1934, Serial No. 738,094
7 Claims. (Cl. 254—42)

Our invention relates generally to printing equipment and more particularly to a quoin.

As set forth in the patent application to James Edgar Lee and Freeman Barney, No. 1,948,821, allowed February 27th, 1934, quoins are subject to hard use and abuse and must be operated quickly and easily and the instant invention not only attains the several advantages referred to in the Lee and Barney patent but it also obtains several other advantages.

One of these advantages relates to means for locking the two sliding wedge members in their adjusted position.

Continuing, another advantage resides in means for indicating the degree of lateral expansion of the quoin, this being necessary in order that the quoins may be replaced in their exact former positions. That is, the printer is able to observe the degree of expansion of the quoin and then unlock it whereby changes may be made and then relock it in exactly the same position. Furthermore, the degree of expansibility may be more or less permanently indicated or written upon the quoin immediately adjacent to the indicia thereon as will be set forth later in the specification.

Further advantages will become apparent to those skilled in this art as the description proceeds.

In the drawing:—

Fig. 1 is an enlarged fragmentary view of the indicating means as placed upon the quoin.

Fig. 2 is a fragmentary view of our invention. This view shows the quoin in inverted position and with the outer wedge member removed.

Fig. 3 is a cross sectional view taken along the line 3—3 of Fig. 2.

Fig. 4 is a view taken along the line 4—4 of Fig. 2.

Like numerals refer to like parts in the several views.

Referring now to the drawing, numeral 54 indicates the channel shaped main element having holes 55 and 56, these holes being adapted to receive the feet 57 of a bridge element 58. This bridge element is formed of spring material and has a raised portion 59 as clearly shown in Fig. 2.

The outer wedge member is indicated by the numeral 66 and is mounted in the channel shaped member 54 by means of the pin and slot connections 67, only one being shown.

The inner wedge member 68 is cut away as indicated at 69 and is notched as indicated at 70, these notches receiving the raised portion

59. The shell which receives the operating key is indicated by numeral 71. The rotation of the key causes movement of the inner slide 68 and the spring or bridge member 58 causes yieldable engagement between the raised portion 59 and the notches 70 to thus maintain the wedge members in their adjusted position.

It will be noted that the bridge member 58 is removably mounted in the channel shaped member 56 and thus can be removed and replaced as desired.

The inner wedge member 68 carries indicia, shown in dotted lines in Fig. 1, and a certain one of these indicia is exposed through the opening 41. As shown in Fig. 1, the substantially rectangular line surrounding the reference character 8 indicates the boundary of a cadmium plated surface. This surface carries the particular pencil notation which is indicative of the particular indicia exposed through the hole 41. This pencil notation serves to temporarily record the registering number and thus the quoin can be removed and then replaced in its exact original position as many times as desired. The pencil mark upon the cadmium surface can be easily wiped away when it has served its purpose.

The operation of our device is apparent to those skilled in this art. The quoins are utilized in the usual manner and the wedge members are retained against retrograde movement and therefore the exact degree of lateral expansion of the quoin may be obtained upon reinsertion of the quoin whereby any register feature that may be in the form will be preserved.

Having thus disclosed our invention, we desire it to be understood that the invention is in nowise limited to the particular illustrated embodiment disclosed, the scope thereof being set forth in the following claims.

We claim:

1. In combination, a channel shaped member, an outer wedge member slidable between the flanges thereof, an inner wedge member located between the web of the channel shaped member and the outer wedge member, means for moving the wedge members relatively to each other, one of said wedge members being cut away to form a recess between the same and the channel shaped member and locking means located in said recess, said locking means engaging the channel shaped member and one of the wedge members for preventing undesired movement therebetween.

2. An article of manufacture of the class de-

scribed comprising, a main element, wedge members slidably mounted therein, indicia on one of the wedge members, said main element being cut away to expose one of the indicia
 5 and means to move the wedge members relatively to each other whereby the indicia are successively exposed, said main element being plated with cadmium closely adjacent the cut away portion whereby a pencil notation may
 10 be temporarily placed thereon.

3. In combination, a channel shaped member, an outside wedge member adapted for lateral movement between the flanges of the channel member, an inside wedge member, means
 15 for moving the wedges relatively to one another, one of said wedges having a roughened surface thereon, a spring member having a raised portion and an opposed projection, said raised portion frictionally engaging the rough-
 20 ened surface and said projection being removably associated with the channel shaped member for the purpose described.

4. A combination of elements as set forth in claim 9 in which one of said wedges has a
 25 plurality of characters thereon in longitudinally located relationship, said channel shaped member having an opening therethrough to successively expose the characters.

5. A combination of elements as set forth in
 30 claim 9 in which one of said wedges has a

plurality of characters thereon in longitudinally located relationship, said channel shaped member having an opening therethrough to successively expose the characters and said rough-
 5 ened surface comprising a series of alternate ridges and depressions, the pitch of which is proportional to the longitudinal spacing of the characters in exact ratio of small whole numbers.

6. In combination, a quoin having a channel
 10 member, an outer wedge laterally movable therein, an inner wedge longitudinally movable, notches on the inner wedge, said channel having two spaced holes, and a spring having feet
 15 located in said spaced holes, said spring having a bridge portion spaced from the channel member and a raised portion yieldably engaging the inner wedge to frictionally retain the same in its adjusted position.

7. A quoin comprising, a main element, an
 20 inner and an outer wedge member slidably mounted thereupon, said inner wedge member being cut away to form a recess, and locking means including a spring frictionally engaging
 25 surfaces upon the inner wedge member and the main element located within the said recess.

JAMES EDGAR LEE.

OLAF T. GYLLECK.

FREEMAN BARNEY. 30

CERTIFICATE OF CORRECTION.

Patent No. 2,003,597.

June 4, 1935.

JAMES EDGAR LEE, ET AL.

It is hereby certified that error appears in the printed specification of the above numbered patent requiring correction as follows: Page 2, first column, lines 24 and 30, claims 4 and 5 respectively, for the claim numeral "9" read 3; and that the said Letters Patent should be read with these corrections therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 16th day of July, A. D. 1935.

Leslie Frazer

Acting Commissioner of Patents.

(Seal)