

No. 772,526.

PATENTED OCT. 18, 1904.

J. B. MARTIN.
PRINTER'S QUOIN.
APPLICATION FILED APR. 12, 1904.

NO MODEL.

Fig. 1.

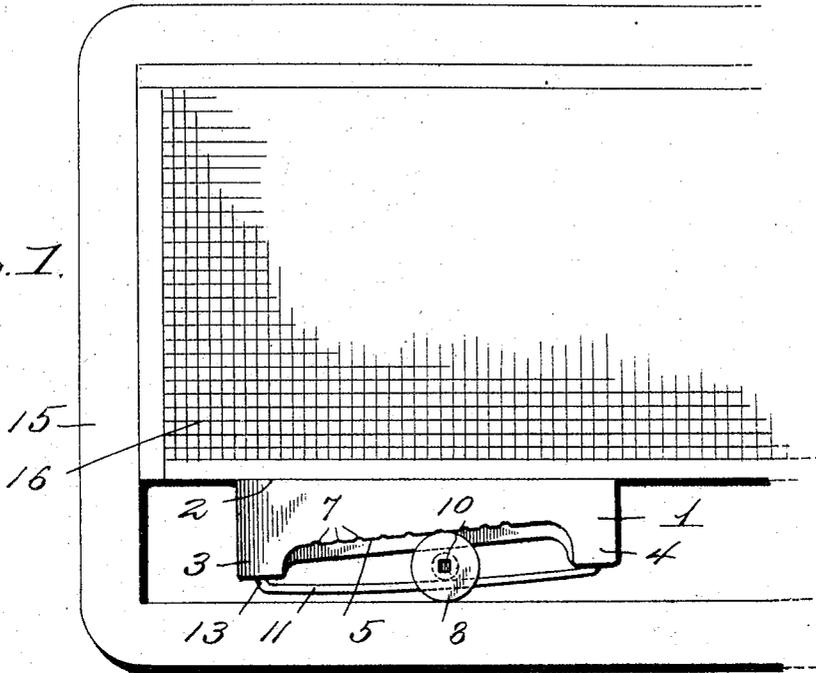


Fig. 2.

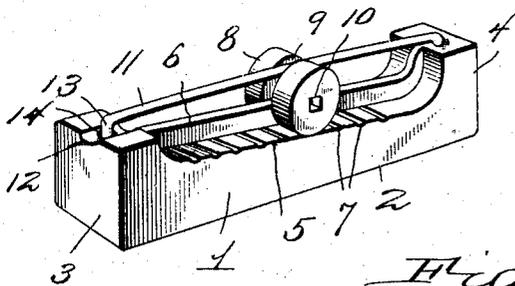


Fig. 3.

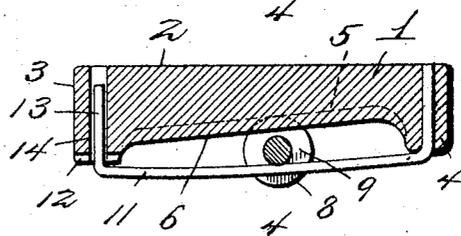
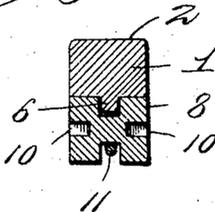


Fig. 4.



Witnesses

E. J. Hall
H. A. Shepard

James B. Martin
Inventor,

by

C. A. Snow & Co.
Attorneys

UNITED STATES PATENT OFFICE.

JAMES B. MARTIN, OF WESTBEND, IOWA, ASSIGNOR OF ONE-THIRD TO
LEWIS A. MARTIN, OF WESTBEND, IOWA.

PRINTER'S QUOIN.

SPECIFICATION forming part of Letters Patent No. 772,526, dated October 18, 1904.

Application filed April 12, 1904. Serial No. 202,849. (No model.)

To all whom it may concern:

Be it known that I, JAMES B. MARTIN, a citizen of the United States, residing at Westbend, in the county of Palo Alto and State of Iowa, have invented a new and useful Printer's Quoin, of which the following is a specification.

This invention relates to the art of printing, and has for its object to provide an improved quoin capable of being readily interposed between a form and a chase and conveniently adjusted to effectually lock the form within the chase. It is furthermore designed to maintain the several parts of the present quoin in their assembled operative relation when not in use as well as when in use, thereby to reduce to the minimum the liability of the parts becoming separated and misplaced.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a plan view of a form of type locked up in a chase by means of a quoin of the present invention. Fig. 2 is a detail perspective view of a quoin embodying the features of this invention. Fig. 3 is a longitudinal sectional view thereof. Fig. 4 is a cross-sectional view on the line 4 4 of Fig. 3.

Like characters of reference designate corresponding parts in each and every figure of the drawings.

The body 1 of the present quoin is formed by a metal bar of suitable length and rectangular in cross-section. The front face or edge of the bar (indicated at 2) is straight and designed for engagement with one edge of a form of type, and at opposite ends of the bar or body are integral rearwardly-directed shoulders 3 and 4, respectively, the rear face or edge of the body being inclined rearwardly

from the shoulder 3 to the shoulder 4, as indicated at 5. Extending longitudinally of the inclined face of the quoin is a rib 6, and at opposite sides of this rib the inclined face of the quoin is provided with a longitudinal series of transverse notches 7.

A roller 8 is mounted to travel upon the inclined rear face of the quoin and is provided with a central annular groove 9 to receive the rib and guide the roller in its movement upon the body of the quoin. In each end of the roller is a central polygonal socket 10 to form a seat for the reception of a manually-operated key to rotate the roller upon the body of the quoin.

To maintain the roller in engagement with the inclined face of the body of the quoin, there is a keeper 11 in the nature of a spring-bar, having one end secured to the shoulder 4 and its opposite free end portion working in a slot or bifurcation 12 in the outer end of the opposite shoulder 3, the free extremity of the spring being bent laterally to form a guide-finger 13, which works in an opening 14, formed longitudinally in the shoulder 3. The spring-rod 11 is received within the annular groove 9 of the roller, so as to hold the latter against the inclined face of the quoin-body, and is capable of yielding to permit of the roller traveling upon said inclined face, wherefore the spring-keeper maintains the roller assembled with the body of the quoin, so as to be always in position for use without interfering in any manner whatsoever with the rotation of the roller.

In using the present device it is interposed between a chase 15 and one edge of a form of type 16, the straight edge 2 of the quoin-body lying in engagement with the form and the roller 8 engaging the inner edge of the chase, so that by causing the roller to rotate and travel forwardly upon the inclined face of the quoin-body the latter will be wedged against the form of type to rigidly lock the same within the chase.

The notches 7 serve to prevent slipping of the roller after it has been adjusted to the desired position.

Having thus described the construction and

operation of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A quoin comprising a body having an inclined face, a movable element carried by the body and working over the inclined face thereof, with a portion exposed to engage a chase, and a keeper to connect the two members and permit adjustment of the movable member.

2. A quoin comprising a body having an inclined face, a roller carried by the body and traveling over the inclined face thereof, with its periphery exposed for engagement with a chase, and a keeper to connect the roller and the body and permit of rotatable adjustment of the roller.

3. A quoin comprising a body having an inclined face, a movable element working over said inclined face, and a spring-keeper to hold the movable element in engagement with the inclined face of the body, one face of the movable element being exposed for engagement with a chase.

4. A quoin comprising a body having an inclined face provided with an intermediate longitudinal rib, a peripherally-grooved roller working over the inclined face of the body with the rib received in the groove of the roller, and a yieldable keeper-bar carried by the body and bridging the inclined face thereof with its intermediate portion received within the groove of the roller, the periphery of the roller being exposed for engagement with a chase.

5. A quoin comprising a body having an inclined face, a rotatable element working over said inclined face, and a spring carried by the body and engaging the roller to maintain the latter in engagement with said inclined face, the periphery of the roller being exposed for engagement with a chase.

6. A quoin comprising a body having an inclined face, a rotatable element working over said inclined face, and a spring-rod having its opposite ends engaged with the body and its intermediate portion bridging the inclined face

and frictionally engaging the roller to maintain the latter in engagement with said inclined face, the periphery of the roller being exposed for engagement with a chase.

7. A quoin comprising a body having an inclined face, a rotatable element working over said inclined face and having a peripheral groove, and a spring carried by the body and received in the groove of the roller to maintain the latter in engagement with the inclined face of the body, the periphery of the rotatable element being exposed for engagement with a chase.

8. A quoin comprising a body having an inclined face, a rotatable element working over said inclined face, and a spring-keeper having one end connected to the body with its opposite free end working in an opening in the opposite end of the body, the intermediate portion of the keeper bridging the inclined face of the body and engaging the periphery of the roller to hold the latter in engagement with said inclined face.

9. A quoin comprising a body having an inclined face and provided with shoulders at opposite ends of said inclined face, one of the shoulders being slotted and provided with an opening in communication with the slot, a roller traveling over the inclined face of the body and provided with a peripheral groove, and a spring having its free end working in the slotted shoulder and provided with a lateral guide projection working in the opening in said shoulder, the opposite end of the spring being secured to the other shoulder and the intermediate portion of the spring bridging the inclined face of the body and received within the groove of the roller at the outer side thereof.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES B. MARTIN.

Witnesses:

GEO. G. SCHREIBER,
A. L. FRYE.