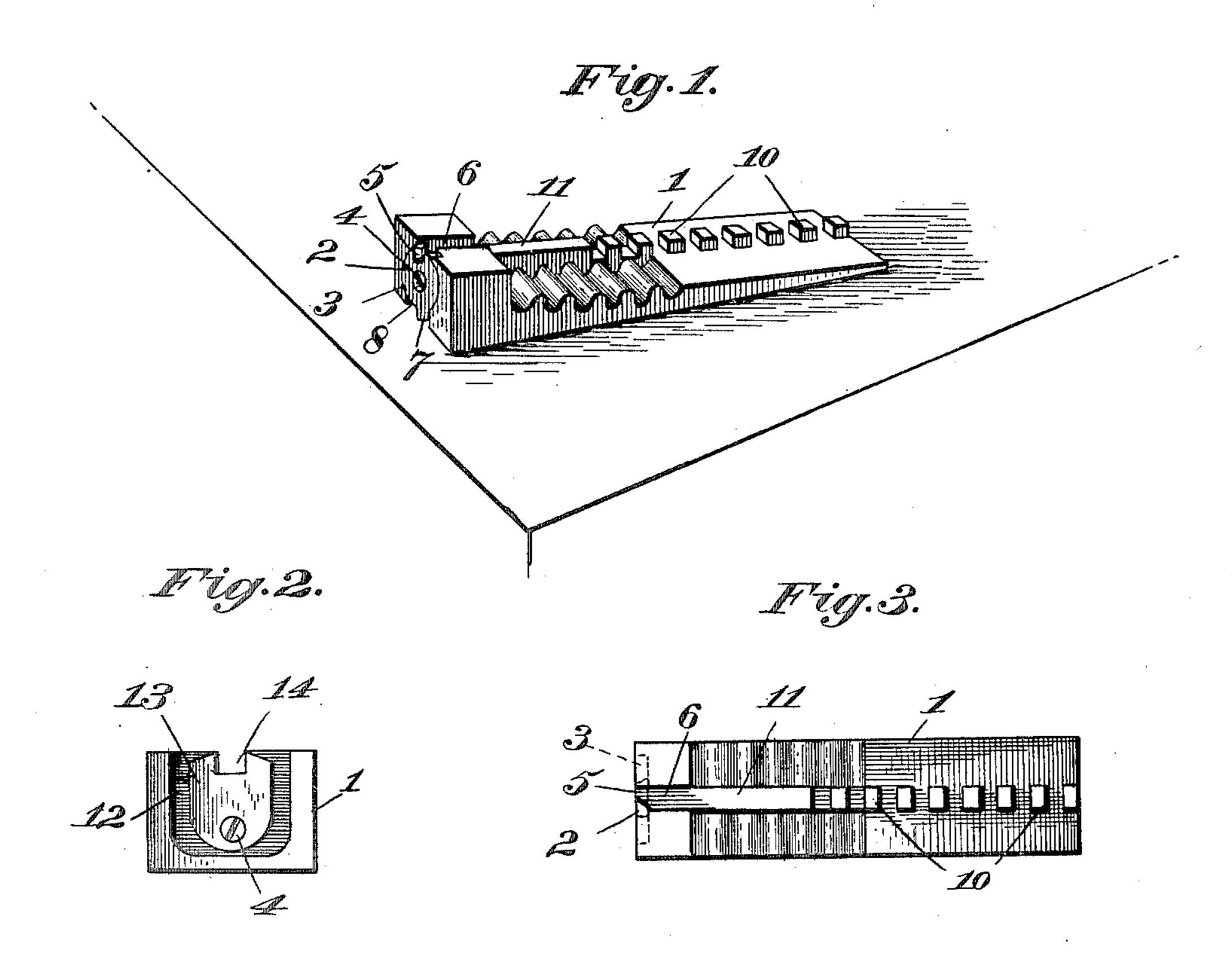
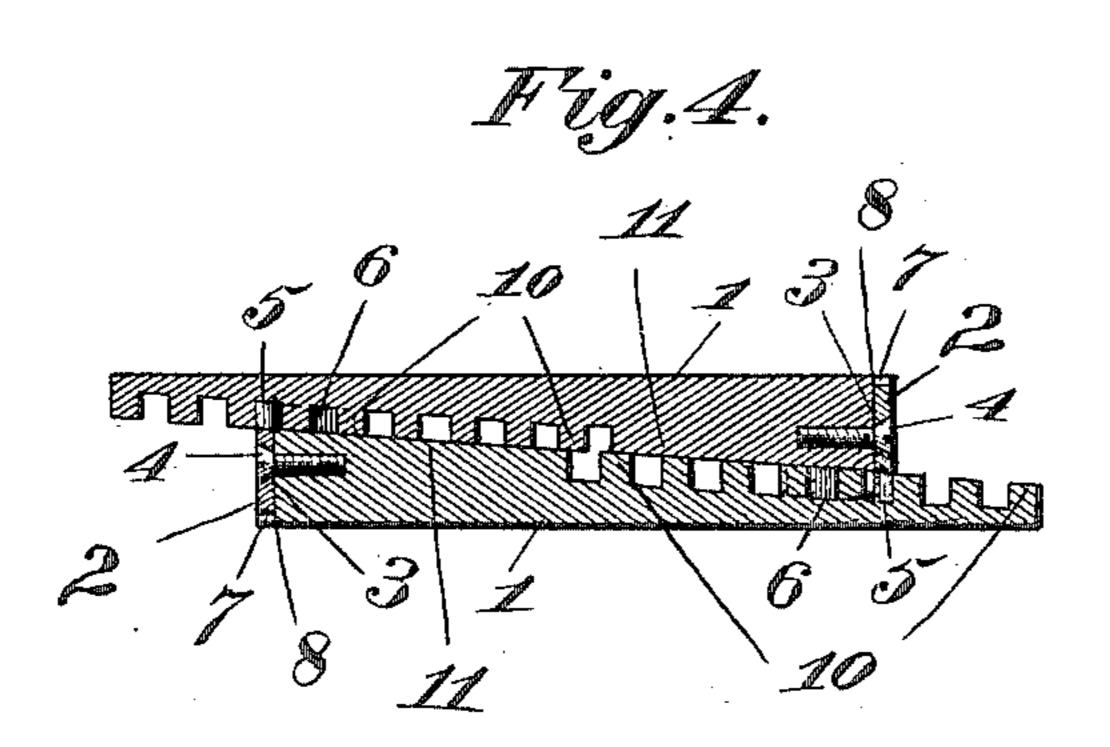
E. L. WILSON. PRINTER'S QUOIN.

(Application filed Apr. 14, 1900.)

(No Model.)





Witnesses: Charlewy Charlestenic

Inventors.
E.L.Wilson,

Manage

UNITED STATES PATENT OFFICE.

EDWIN L. WILSON, OF MAYFAIR, ILLINOIS.

PRINTER'S QUOIN.

SPECIFICATION forming part of Letters Patent No. 668,072, dated February 12, 1901.

Application filed April 14, 1900. Serial No. 12,881: (No model.)

To all whom it may concern:

Be it known that I, EDWIN L. WILSON, a citizen of the United States, residing at Mayfair, in the county of Cook and State of Illinois, have invented a new and useful Printer's Quoin, of which the following is a specification.

My invention relates to quoins, and more particularly to means for locking the same in position.

The object of the invention is to provide a lock which is simple in construction, efficient in operation, and will be exceedingly cheap; a lock that can be attached to and form a per-15 manent part of the quoin and be so constructed that it can be used or not, as occasion demands; a lock which can be applied to quoins similar to those now in general use, thereby requiring no change in the equipment of the 20 office; a lock which, affixed to both quoins, works in such a manner that any two quoins will make a pair, thus making a great saving in time and expense by not requiring that they be sorted or paired off, and a lock so con-25 structed that when in operation the motion of the press cannot jar it out of position.

With these objects in view my invention consists in the improved construction and arrangement of parts of a quoin and lock, as will be hereinafter more particularly set forth.

In the accompanying drawings, in which the same reference-numerals indicate corresponding parts in each of the views in which they occur, Figure 1 is a perspective view of my improved quoin and lock. Fig. 2 is an end view of a slight modification. Fig. 3 is a plan view. Fig. 4 is a longitudinal sectional view of two of the quoins in position.

In operating printing-presses, and especially those in which the paper must be run through the press more than once, as in multiple-colored printing, it is necessary that the forms be held absolutely rigid during the entire operation to cause the different colors to register with each other perfectly. Unless means be taken to lock the quoins used for retaining the forms in position there is danger of the jar of the machine loosening the quoins and permitting the form to shift to a greater or less extent, thereby throwing the impressions out of register and causing a great loss of time and material. To avoid this dif-

ficulty, means have been resorted to for locking the quoins which have been more or less complicated and costly, and therefore have 55 not come into general use. To obviate these difficulties, I provide the ordinary wedgeshaped quoin 1 with a lock 2, which may be seated in the larger end of the quoin and be located wholly within the boundary of said 60 quoin, and therefore it does not change the form of the quoin in any manner. I prefer to form the lock substantially circular, as shown in the drawings, and secure it rotatively within a circular recess 3 by means of 65 a screw 4 or suitable retaining device. One portion of the lock is provided with a notch or recess 5, which registers with the usual slot 6 in the quoin, and the diametrically opposite portion of the lock is provided with a 70 projection 7, which fits within a recess 8, said recess extending from the upper portion of the recess 3 to the back or outer surface of the quoin.

The recess 5 is of substantially the same 75 width as the slot 6, with its walls lying in the length of the quoin, and the recess 8 is of such a width that when the projection 7 is moved from one end of the recess 8 to the other one or the other of the edges of the slot 80 5 will be moved partially across the slot 6 in position to engage with one of the teeth 10, formed upon the inner face of the quoin, in alinement with the usual central rib 11. If desired, the radial walls of the slot 5 may be 85 slightly tapered, so that when the quoins are being moved longitudinally relatively to each other to lock the form in position if the lock should be accidentally turned across the end of the slot 6 the engagement of the teeth 10 90 with the inclined surface will automatically force the lock back out of the way.

As above described, it will be seen that a quoin provided with my improved lock is substantially the same in exterior appearance as 95 the ordinary quoin and that any two of the quoins can be put together without the necessity of any particular arrangement, thus producing a quoin that is as simple and easily operated as the quoin in present use. After 100 the quoins have been moved longitudinally of each other a sufficient distance to lock the form in position the lock at either or both ends of the two quoins may be turned across

the end of the groove in that quoin in position to engage with the teeth of the opposite end of the companion quoin. A slight reverse movement of the quoins by the key 5 will cause one of the teeth to engage with the lock, and thereby prevent the lock from being shaken or accidentally moved out of its position by the jar of the machinery. The ease with which the lock may be rotated ro within its recess may be regulated or adjusted by tightening or loosening the screw used in securing it in its recess.

If desired, the recess in the end of the quoin may be substantially angular, as shown 15 at 12, and the lock can be in the form of a plate 13, which is pivotally secured at one end and has its opposite end provided with a notch 14, which will register with the groove in the quoin when the plate stands in one po-20 sition, but which will be out of register therewith when the plate is moved to either side. Other changes or modifications may be resorted to without departing from the spirit of my invention.

25 Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination with a substantially wedge-shaped quoin provided with a groove 30 and a series of teeth, of a laterally-movable recessed lock pivotally secured to the larger end in position to be moved across the mouth of the groove, substantially as described.

2. The combination with a substantially 35 wedge-shaped quoin provided with a groove and a recess at its larger end, of a laterallymovable lock seated within said recess in position to be moved transversely across the William Johns.

mouth of said groove, substantially as described.

3. The combination with a recessed quoin, of a notched lock located within said recess, said lock being movable transversely of the quoin and the walls of the notch being in line with the length thereof substantially as de- 45 scribed.

4. The combination with a quoin having a circular recess at one end, of a circular lock pivotally secured within said recess, one portion of the lock being notched and another 50 portion being provided with means for rotating the lock, substantially as described.

5. The combination with a quoin provided with a groove and a series of teeth in alinement therewith, of a lock pivotally secured 55 at one end of the quoin and provided with a notch to register with said groove, the walls of the lock being inclined, substantially as described.

6. The combination with a substantially 60 wedge-shaped quoin provided with a rib and a groove, the head of which is provided with a circular recess and a flaring recess extending therefrom to the back of the quoin, and the point is provided with a series of teeth in 65 alinement with the rib of the quoin, of a circular lock pivotally secured within said recess, one portion of which is notched to register with the groove of the quoin and the opposite portion is provided with a projection 70 to fit within the flaring recess, substantially as described.

EDWIN L. WILSON.

Witnesses:

ALBERT H. DREW.