

W. QUAIL.
Printers' Quoins.

No. 158,001.

Patented Dec. 22, 1874.

FIG. 1.

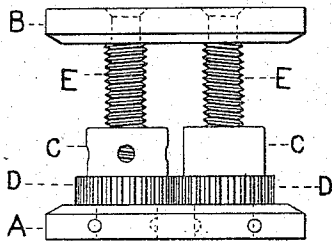


FIG. 2.

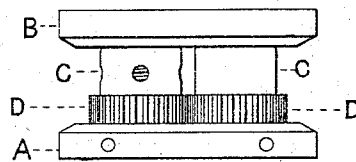
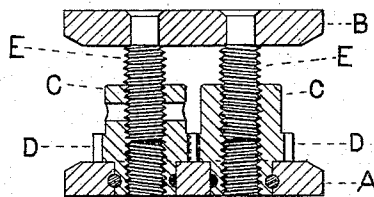


FIG. 3.



WITNESSES.

John. Cook
H. R. Gordon

William Quail by his atty O. J. Hoane

INVENTOR.

UNITED STATES PATENT OFFICE.

WILLIAM QUAIL, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN PRINTERS' QUOINS.

Specification forming part of Letters Patent No. 158,001, dated December 22, 1874; application filed December 4, 1874.

To all whom it may concern:

Be it known that I, WILLIAM QUAIL, of Brooklyn, Kings county, New York, have invented, made, and applied to use an Improved Printer's Quoin, for use in locking up forms or types; and that the following is a full, clear, and correct description of the same, reference being had to the accompanying drawing making part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a view of the quoin extended or thrown out. Fig. 2 is a view of the quoin contracted or drawn in. Fig. 3 is a sectional view of the quoin, showing the interior construction of the same.

In the drawing like parts of the invention are pointed out by the same letters of reference.

The nature of the present invention consists in the construction, as more fully herein-after set forth, of an improved quoin for use by printers in locking up forms in a chase or upon a galley, the object of the invention being the construction of a quoin reliable in its operation, simple in construction, and one that can be afforded at a low cost.

To enable those skilled in the arts to make and use my invention, I will describe its construction and operation.

The quoin is composed of two plates of metal, planed true upon their faces, and designated as A and B in the drawing. The plate A has inserted in it the journals C, free to revolve in it, and projecting beyond the back of it, and upon these journals C are cut or secured the pinions D, meshing into each other. These journals are hollowed, and are provided one with a right-handed and the other with a left-handed screw-thread. The plate B has secured in it the uprights E, projecting from its face or front side, and threaded, so as to engage with the threads upon the hollowed journals C.

Such being the construction, the operation is as follows: The threaded uprights E are made smaller in diameter than the journals C, so that they will readily be received within

them, and, having been inserted in them, the screw-threads upon them engage with the threads upon the interior of the journals, and, by turning one of the journals C, the pinion D upon the same is revolved. As it revolves, and from the fact that it engages with or meshes into the pinion upon the other journal C, this is caused to revolve also; and, by the revolution of these pinions and the journals C, the block A is thrown forward or drawn back, as required.

The quoin is intended to be placed in a chase or galley within or upon which type or a form has been received, the plate B bearing upon the side of the chase or galley, and the journals C are then turned by turning one of them, as described, and thus turning the other journal, as already described, until the plate A is advanced and bears tightly against a side-stick or lead placed alongside of the type or form. This secures the type or form in the chase or upon the galley, and, when desired to unlock the form or type, one of the journals is turned in the opposite direction, and the pinion upon the same revolving in that direction, and meshing into and engaging with and turning the other pinion upon the other journal, the plate A is withdrawn from its bearing against the side-stick, lead, or rule placed alongside of the type, and the quoin may be removed from the chase or galley, or the form or type removed from the same.

The quoin, made of metal, is more durable than the ordinary wooden one now in use, is readily adjusted, and which holds the form or types securely in position.

Having now set forth my invention, what I claim as new is—

A quoin composed of the plates A and B, combined with the hollow threaded journals C, having secured upon them the pinions D, and the threaded uprights E, operating substantially as and for the purpose specified.

WILLIAM QUAIL.

In presence of—

JOSEPH H. TOONE,
A. SIDNEY DOANE.