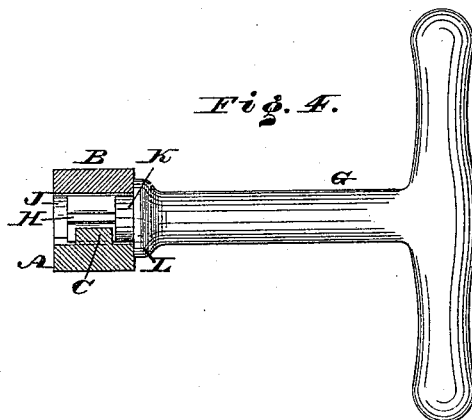
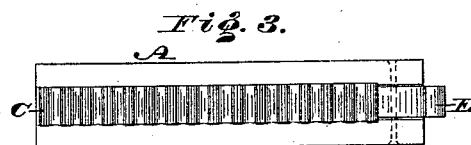
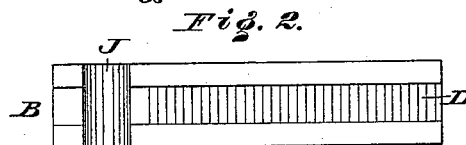
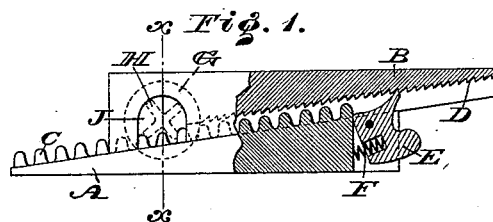


(No Model.)

D. J. FERRY.
PRINTER'S QUOIN.

No. 348,119.

Patented Aug. 24, 1886.



WITNESSES:

L. Bouville
H. F. Kircher

INVENTOR:

Daniel J. Ferry
BY *John A. Dersheim* ATTORNEY.

UNITED STATES PATENT OFFICE.

DANIEL J. FERRY, OF PHILADELPHIA, PENNSYLVANIA.

PRINTER'S QUOIN.

SPECIFICATION forming part of Letters Patent No. 348,119, dated August 24, 1886.

Application filed February 4, 1886. Serial No. 190,732. (No model.)

To all whom it may concern:

Be it known that I, DANIEL J. FERRY, a citizen of the United States, residing in the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Printers' Quoins, which improvement is fully set forth in the following specification and accompanying drawings, in which—

10 Figure 1 represents a partial side elevation and partial longitudinal section of a printer's quoin embodying my invention. Figs. 2 and 3 represent views of the inner faces of the parts thereof. Fig. 4 represents a section in line *x x*, 15 Fig. 1, and a side elevation of the operating-key.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of a printer's quoin, 20 which may be readily tightened, and when tightened is prevented from being loosened, especially by the jarring of a printing press.

It also consists of the operating-key of the quoin having novel features, as will be hereinafter fully set forth. 25

Referring to the drawings, A and B represent the sections of a printer's quoin, the contiguous or inner faces of which are diagonal, one face having a rack, C, and the other face 30 a ratchet, D. Pivoted to the heel end of the rack-section is a dog or pawl, E, whose nose or point engages with the ratchet D, and the same is held in locking position by means of spring F, which is seated on the section and dog and exerts its pressure on the latter. 35

In order to operate the sections so as to tighten the quoin in the chase, I employ a key, G, having a pinion or teeth, H, the same entering an opening, J, in the ratchet section 40 and engaging with the rack of the other section, whereby, when the key is rotated, the sections are moved, causing a wedging or tightening action of the quoin in the chase. In the

movement of the sections, the dog E rides freely over the teeth of the ratchet, and when 45 motion of the sections ceases, the dog remains engaged with the proper tooth of said ratchet, so that slipping of the sections and unlocking of the quoin are prevented.

In order to unlock or loosen the quoin, one 50 of the sections is moved slightly forward, so as to clear the point of the dog or pawl from the ratchet, whereby the dog is permitted to be raised clear of the tooth thereof, and thus the section may be run back and the quoin 55 accordingly released. The key G has a cylindrical portion, K, which is adjacent to the teeth H, and forms a bearing on which the key rotates on the quoin, whereby said rotation is accomplished with ease and without interference of said teeth H. A shoulder or collar, 60 L, is also formed on the key contiguous to the bearing K, which limits the entrance of the key into the opening J, and also guides the key in its rotation, avoiding irregular motions thereof. 65 The opening J extends entirely through the section, so that the key may be inserted from either side of the quoin.

Having thus described my invention, what I claim as new, and desire to secure by Letters 70 Patent, is—

1. A quoin formed of the sections A and B, the said section A having a rack, C, and a detent, E, secured to one end thereof, the section B having a ratchet, D, and an opening 75 adapted to receive an operating-key having teeth meshing with said rack, all substantially as described.

2. A quoin-key formed with a pinion, a bearing-surface, and collar, substantially as 80 described.

DANIEL J. FERRY.

Witnesses:

JOHN A. WIEDERSHEIM,
A. P. GRANT.