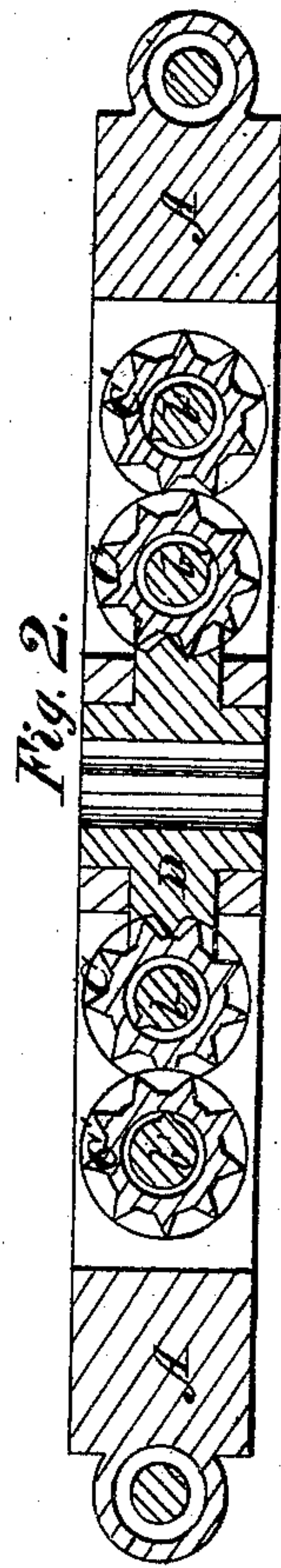
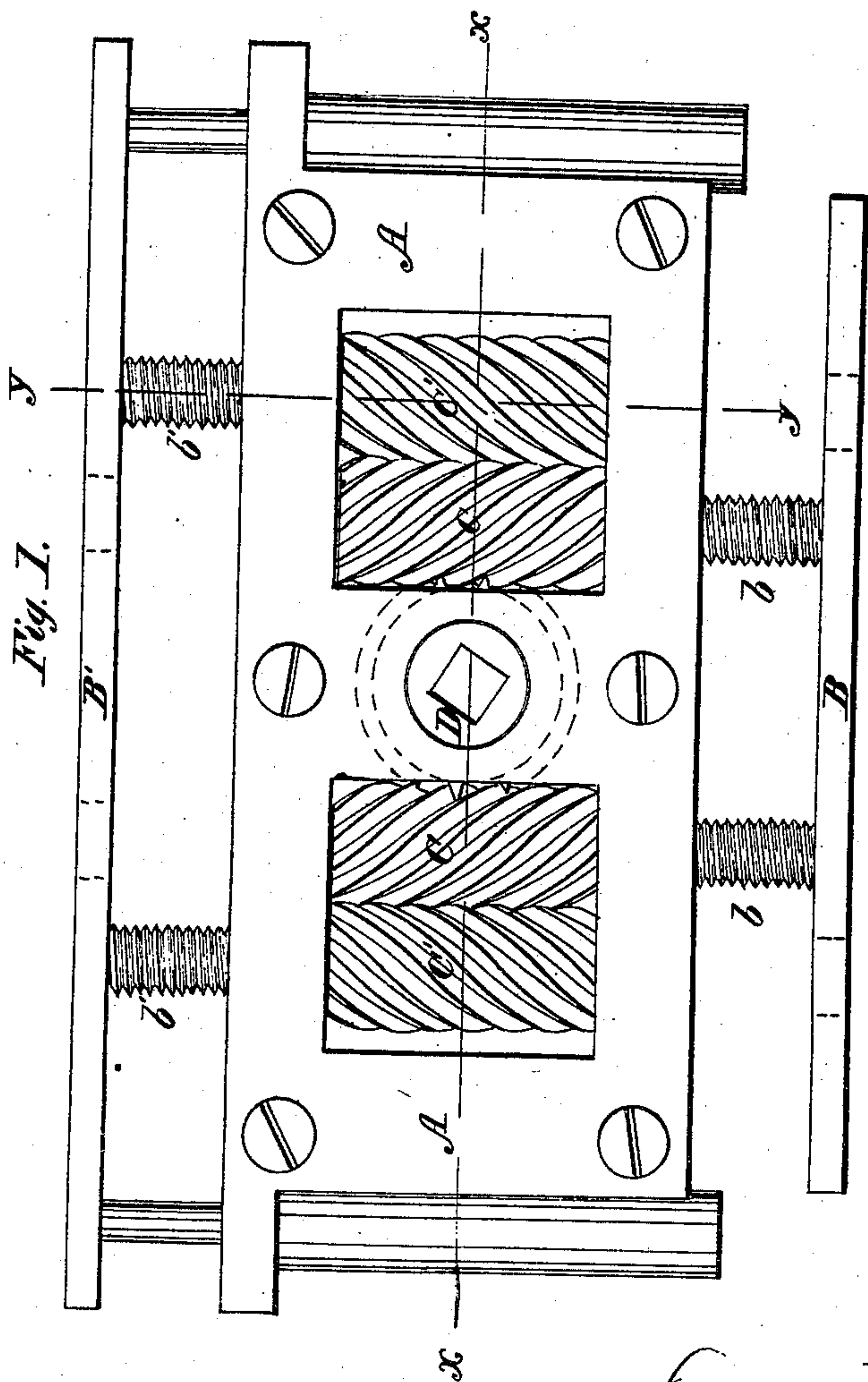
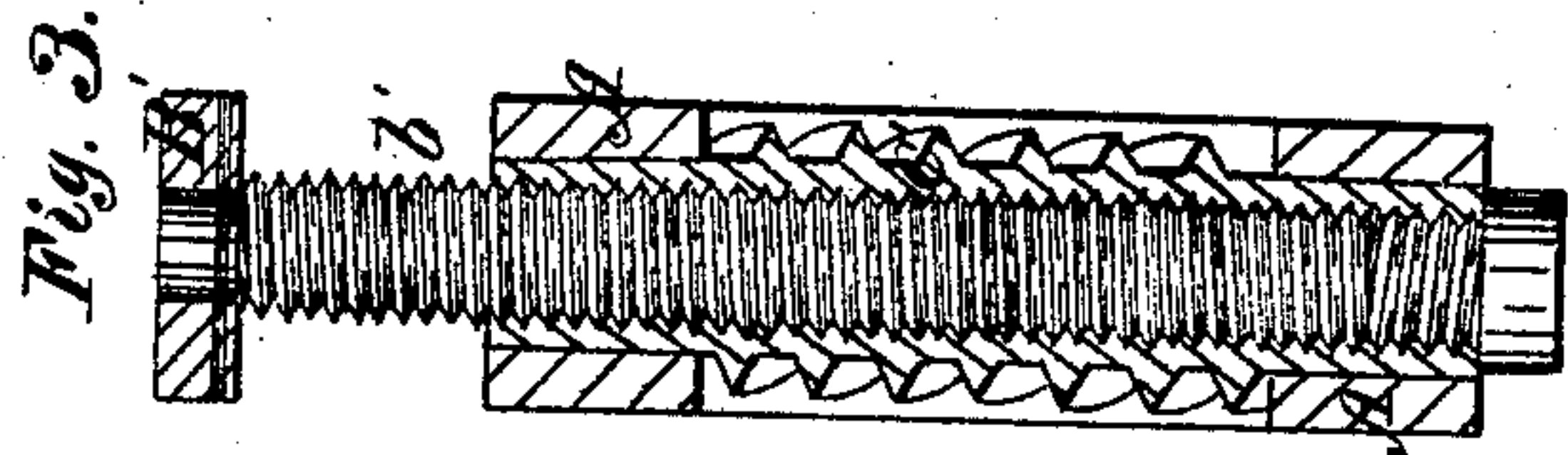


*D. Dorrity.*  
*Printers' Quoin.*  
*N<sup>o</sup> 93603.      Patented Aug. 10. 1869.*



Witnesses,  
*McComb*  
*Fred Haynes*

Inventor,  
*Samuel Dorrity*  
*per Brown Cornubert*  
 Attys.

# United States Patent Office.

DANIEL DORRITY, OF PONT-AUDEMER, FRANCE, ASSIGNOR TO  
FARRELL DORRITY, OF NEW YORK CITY, N. Y.

*Letters Patent No. 93,603, dated August 10, 1869.*

## IMPROVEMENT IN PRINTERS' QUOINS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, DANIEL DORRITY, of Pont-Audemer, in the Empire of France, have invented a new and improved "Printers' Quoin;" and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form part of this specification, and in which—

Figure 1 represents a plan view of a printers' quoin, constructed according to my invention;

Figure 2 represents a longitudinal section of the same, taken in the line *x-x*; and

Figure 3, a transverse section, taken in the line *y-y*.

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

This invention has for its object the more rapid, convenient, accurate, and secure locking up of printers' forms than is practicable with contrivances heretofore used for that purpose; and

It consists of a printers' quoin constructed with laterally-adjustable face-plates, having inwardly-extending fixed screws, which fit within, and are operated by hollow female-threaded cylindrical screw-gears, having their axes arranged parallel, and being driven by a screw-wheel, arranged with its axis at right angles thereto, whereby the lateral adjustment of the said face-plates is effected by the turning of said driving screw-wheel.

Referring to the accompanying drawings—

A is a metal frame, of rectangular and preferably of oblong formation, and provided upon its longer sides with laterally-adjustable face-plates, B B'. Projecting inwardly and rectangulantly from each of said face-plates B B', are fixed screws, *b b* and *b' b'*. Said screws, *b b* and *b' b'*, are made to fit respectively with-

in a corresponding number of hollow female-threaded screw-gears, C C'. Said screw-gears are supported in bearings in the frame A, and are made to gear with each other in pairs, so that by rotation of the same, longitudinal motion is imparted to the said screws *b b* and *b' b'* in opposite directions, and thereby producing lateral motion of the said face-plates B B', also in opposite directions. The screw-gear of each pair is made to gear with and is operated by a driving screw-wheel, D, arranged in the central portion of the frame A, and with its axis at right angles to the axes of the said screw-gears C C', so that by the turning of the said driving screw-wheel, rotary motion is imparted to the said screw-gears C C' and C' C', and thereby effecting the lateral adjustment of the face-plates outwardly or inwardly, according to the direction in which said driving-wheel is turned.

In some cases the quoin may be constructed with but two screws, instead of four, or opposite pairs, as here shown.

A like combination of mechanism may be employed for operating screw-jacks.

What I claim as my invention, and desire to have secured by Letters Patent, is—

The combination, with the laterally-adjustable face-plate or plates, of the inwardly-projecting fixed screws connected therewith, the hollow female-threaded screw-gears, arranged to gear with or operate the fixed screws, and having their axes parallel, and the intermediate screw-wheel having its axis at right angles to the screw-gears, and serving to drive the latter, substantially as specified.

DANIEL DORRITY.

Witnesses:

BERNARD TSANGK, 3 *Île Lacroix*.

ALPHONSE AVIRE, 24 *Boulevard Cauchoise*.