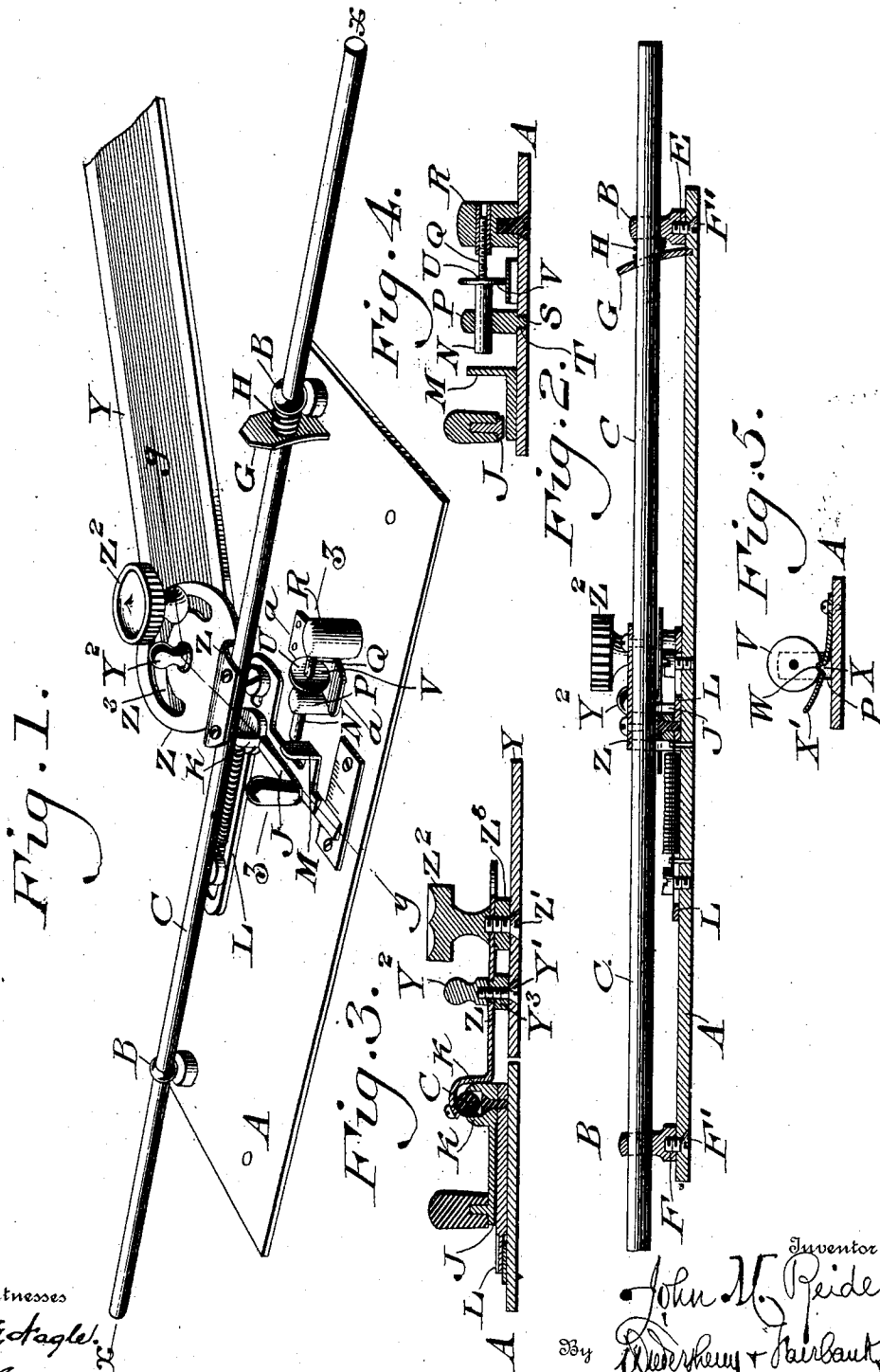


No. 826,471.

PATENTED JULY 17, 1906.

J. M. RIEDEL.
SECTION LINER.

APPLICATION FILED NOV. 14, 1905.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN M. RIEDEL, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
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SECTION-LINER.

No. 826,471.

Specification of Letters Patent.

Patented July 17, 1906.

Application filed November 14, 1905. Serial No. 287,246.

To all whom it may concern:

Be it known that I, JOHN M. RIEDEL, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Section-Liner, of which the following is a specification.

My invention relates to improvements in section-liners; and it consists of novel features, as will be hereinafter described, and pointed out in the claim.

Figure 1 represents a perspective view of a section-liner embodying my invention. Fig. 2 represents a longitudinal section thereof on line *x x*, Fig. 1. Fig. 3 represents a transverse section on line *y y*, Fig. 1. Fig. 4 represents a longitudinal section of a portion on line *z z*, Fig. 1. Fig. 5 represents a transverse section of a portion on line *a a*, Fig. 1.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a plate forming the base, from which rise the eyes B, through which is freely passed the traveler C, said eyes having openings E in their lower ends for the reception of the screws F, which are passed through said base from below and whose heads F' are on the under side of said base A, whereby said eyes may be firmly secured in position, and convenient means are provided for tightening the same when so desired.

G designates a movable clamp, which is formed of an opening, through which the traveler C is adapted to pass freely in one direction and to be engaged by the wall of said opening, so as to prevent improper motion of the traveler in the opposite direction, it being noticed that said clamp primarily occupies an inclined position and has bearing against it the spring H, which also bears against the adjacent eye B for holding said clamp in operative position on said traveler, as usual in such cases.

In order to impart motion to the traveler C at intervals of uniform distance apart, I employ the lever J, which is provided with lugs K, which freely embrace the traveler C, but which when the lever is operated will be caused to bite said traveler, and thus impart the necessary motions thereto. In order to adjust the throw of said lever J, I employ the angular gage L, which has said lever mounted thereon and is adjustably fitted on the

base A, the upright limb M of said gage being adapted to abut against the horizontally-arranged screw-threaded rod N, the latter having one end fitted in the post P and provided with a threaded portion Q, which engages with a threaded sleeve on the post R, said posts P and R rising from the base A, the post P having at its lower end the threaded stub S, which is fitted in a threaded opening T in the base A, by which provision said stub, and consequently said post, may tightly engage the base A, whereby said post is retained true and firm in position.

Secured to the pin N at U is the disk or wheel V, in whose periphery is a recess W, which is adapted to receive the detent X, formed on the spring X', the latter being connected with the base A, it being evident that when said spring is lowered the detent leaves the recess W, when the wheel V may be rotated, thus moving the pin N nearer to or farther from the limb M of the gage L, and consequently limiting the throw of the lever J and adapting the device to be set for producing lines nearer to or farther from each other.

Y designates a ruler which is connected by the axial screw Y' and the peripheral screw Z' with the plate Z, the latter being connected with the follower C, said screw Z' passing through a segmental slot Z³ in said plate Z, it being noticed that there is fitted on the upper end of the screw Y' the nut Y² and on the upper end of the screw Z' the nut Z².

Interposed between the plate Z and the base A is the washer Y³, it being noticed that the screw Y' passes through said washer into and through the central opening in said plate Z.

Interposed between the plate Z and base A is a washer Z⁸, it being noticed that the screw Z' passes through said washer Z⁸ into and through the segmental slot in said plate Z, it being evident that when the nuts Y² Z² are loosened the ruler Y may be set at the desired angle, after which said nuts are tightened, when the ruler is entirely under control and held firm and true in position, it being also noticed that owing to the washers Y³ Z⁸ the ruler is sufficiently removed below the plate Z as to lie flat on a table, drawing-board, &c., as most plainly shown in Fig. 3, while being firmly clamped to said plate Z, owing to the nuts Y² Z², it being noticed that

by the provision of said nuts, and consequently of the screws and the segmental slot Z^3 , the ruler may be clamped to the plate Z at both its center and near its periphery, and
5 thus its adjustment may be accordingly preserved.

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

10 In a section-liner, a base, a traveler, means for intermittently moving said traveler including a movable limb, a lever, a horizontally-arranged threaded rod having one end

in the path of said limb, a post in which one end of said rod is slidably mounted, a post in which the threaded portion of said rod is adjustable, a disk on said rod between said posts, and having a peripheral recess, and a spring-plate at right angles to said rod and having a transverse portion to engage said
2 recess.

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