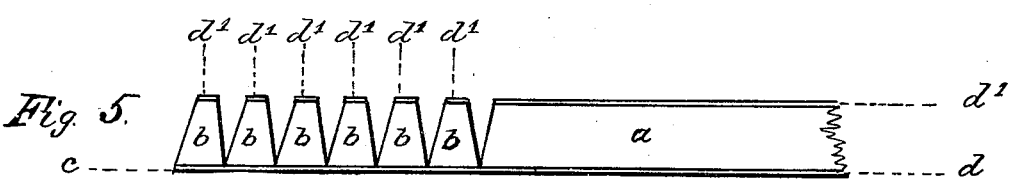
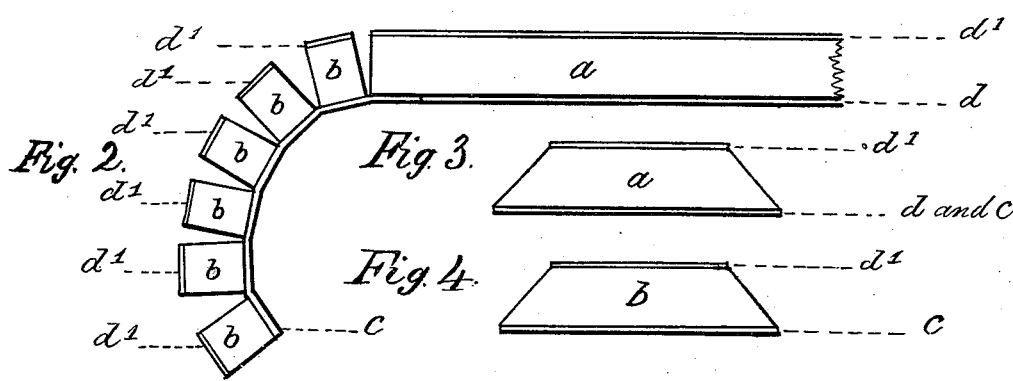
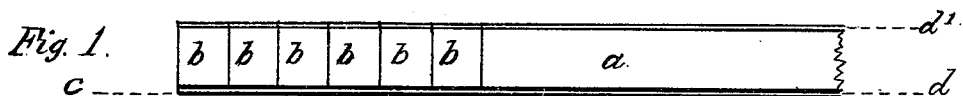


H. J. RICHARDSON.

Ruler.

No. 166,938.

Patented Aug. 24, 1875.



Witnesses:

Inventor:

J. Lottian
Vincent D. Bogart

H. J. Richardson

UNITED STATES PATENT OFFICE.

HENRY J. RICHARDSON, OF BROOKLYN, E. D., NEW YORK.

IMPROVEMENT IN RULERS.

Specification forming part of Letters Patent No. **166,938**, dated August 24, 1875; application filed May 28, 1875.

To all whom it may concern:

Be it known that I, HENRY JAMES RICHARDSON, of Brooklyn, E. D., county of Kings and State of New York, have invented certain new and useful Improvements in Book-Keepers' Rulers, of which the following is a specification:

This invention consists of a straight flat strip of wood, *a*, or any other suitable material, similar to an ordinary flat ruler, being square, beveled, rounded, or molded on one or both edges, in a similar manner to the well-known square, beveled, rounded, or molded edges of ordinary flat rulers, the strip *a* having hinged or jointed to it at one or both ends several small sections or pieces, *b*, having the form of a transverse section of the strip *a*, or any other suitable form, said sections or pieces *b* being hinged or jointed together and to the strip *a* by rubber cloth, leather, or any other suitable material, *c*, the whole forming a flat ruler having a sectional movable jointed end or ends. The under and upper sides of the ruler are wholly or partially covered or lined with rubber cloth *d d'*, or any other suitable material, securely fastened to them, or only one side may be so covered or lined. The sections or pieces *b* may be simply pieces cut off the strip *a*, or they may be pieces of any other suitable material made in the form of a transverse section of the strip *a*, or in any other suitable form. *c* and *d* may, if preferred, be of one piece, thus making the one simply a continuation of the other.

The invention is fully shown in the accompanying drawings, making part of this specification, in which—

Figure 1 is a longitudinal vertical section of the invention with the joints closed. Fig. 2 is a longitudinal vertical section of the invention with the joints opened. Fig. 3 is an end view of the strip *a*, when made with two beveled edges. Fig. 4 is an end view of the sections or pieces *b*, when made with two beveled edges. Fig. 5 is a longitudinal vertical sec-

tion of the invention, having the sections or pieces *b* made in such a manner that the joints will bend either way.

In the drawings, like parts of the invention are pointed by the same letters of reference.

The object of this invention is to aid book-keepers and others when posting or copying accounts from one book to another, as, when the ruler and line-indicator is properly laid upon an open book to guide the eye to any particular line on the page—a very necessary thing for book-keepers—the sectional jointed part will readily adjust itself to the curve of the book near the back, thus preventing the annoyance of the portion of the line near the back of the book being hidden, as is the case with other means of indicating lines ordinarily used. The object of wholly or partially lining or covering the under or upper side or both sides of the ruler and line-indicator with rubber cloth or other suitable material is to prevent it from slipping upon the book when in use. It is obvious that the ruler and line-indicator can also be used as a ruler in the same manner as any ordinary flat ruler, and when the sections or pieces *b* are made of the form shown in Fig. 5, the ruler and line-indicator, when properly placed on the book, can be easily used in ruling lines close up to the back of the book.

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

1. A flat ruler having a sectional movable jointed end, constructed and operating substantially as and for the purposes set forth.
2. A flat ruler having a sectional movable jointed end, in combination with a covering or lining securely fastened to the ruler, all constructed and operating substantially as and for the purposes set forth.

H. J. RICHARDSON.

In presence of—

F. T. LOTHIAN,
VINCENT D. BOGART.