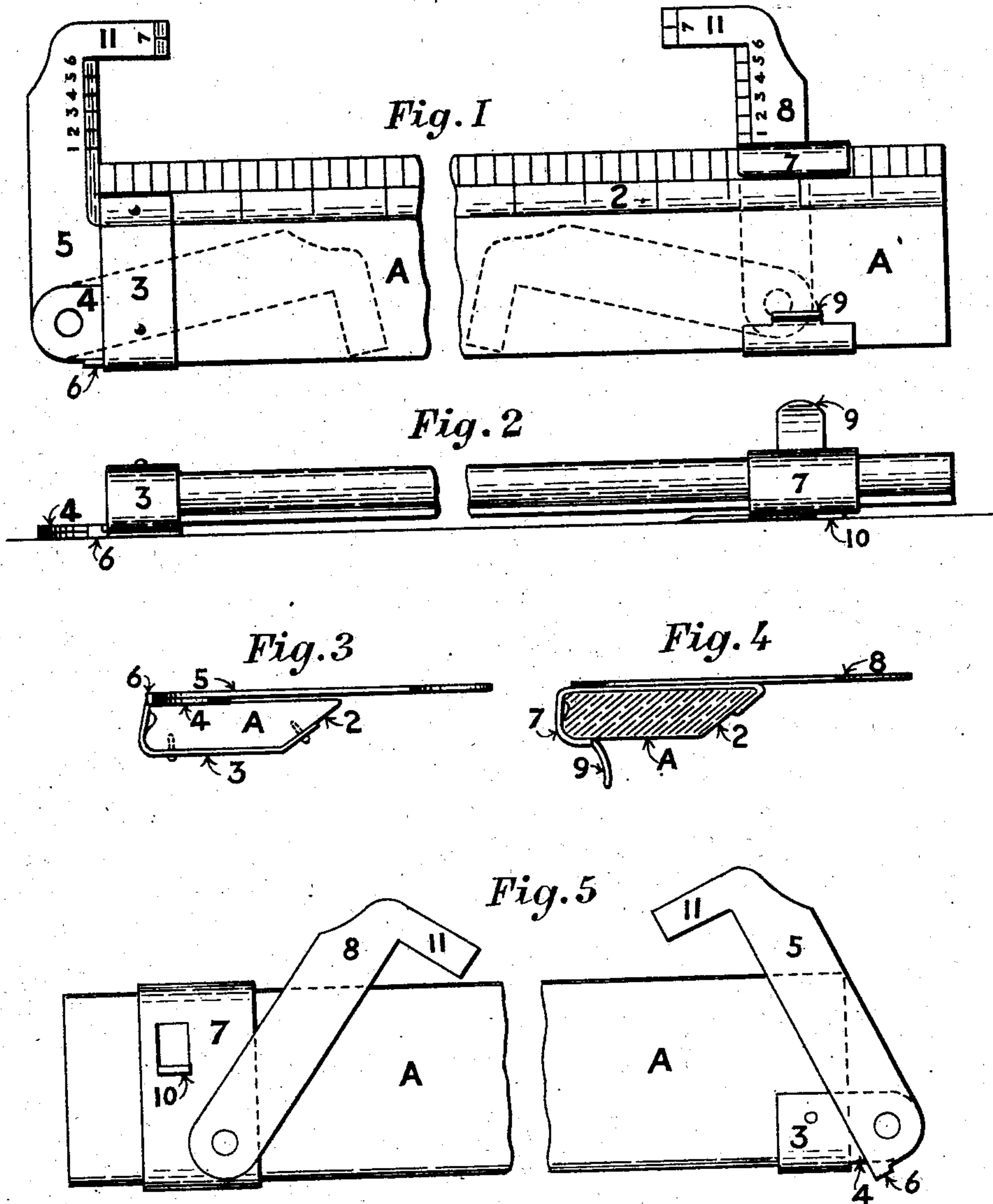


No. 721,271.

PATENTED FEB. 24, 1903.

S. ADLER.  
RULER AND LINE GAGE.  
APPLICATION FILED JULY 17, 1902.

NO MODEL.



Witnesses,

*F. F. J. Kelley*

Inventor,  
*Solomon Adler*  
By *Dewey Strong* Attor

# UNITED STATES PATENT OFFICE.

SOLOMON ADLER, OF SAN FRANCISCO, CALIFORNIA.

## RULER AND LINE-GAGE.

SPECIFICATION forming part of Letters Patent No. 721,271, dated February 24, 1903.

Application filed July 17, 1902. Serial No. 115,902. (No model.)

*To all whom it may concern:*

Be it known that I, SOLOMON ADLER, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented an Improvement in Rulers and Line-Gages; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to improvements in attachments for rulers; and its object is to provide a simple compact device for the use of bookkeepers, school children, and others to enable them to draw parallel lines.

The invention comprises a ruler of ordinary description having clamp members thereon, one of said members slidable in relation to the other, short foldable graduated arms pivoted on said clamps and adapted to stand at right angles to the straight edge of the ruler, stop means to limit the movement of said arms, and the latter serving as a support for the ruler to keep the straight edge clear of the paper at all times. It comprises details which will be more fully set forth hereinafter, having reference to the accompanying drawings, in which—

Figure 1 shows a plan view of upper side of ruler with arms attached, also position of arms (folded in under ruler) when not in use. Fig. 2 shows the lower edge of ruler with clamps attached. Fig. 3 shows a side view of fixed clamp. Fig. 4 shows a side view of sliding clamp. Fig. 5 shows a plan of under side of ruler, clamps, and arms.

A represents a common ruler, having the usual beveled straight-edge portion 2. At one end of this ruler is secured a clamp 3, having a projection 4, to which is pivoted on the under side thereof a short arm 5. The latter is graduated on its inner edge. A stop 6 on the rear end of the arm engages the projection 4 to limit the outward movement of the arm. When opened out, the arm is adapted to stand with its inner beveled edge at right angles to the straight edge and flush with the end of the ruler. A second clamp 7 is slidable on the ruler and has pivoted to its under side and near the back edge a short arm 8, correspondingly graduated with arm 5. The clamp 7 is made of a springy metal strip, having its ends folded over to engage the front and back of the ruler and

provided with a suitable projection or handle portion 9, by which its position on the ruler may be easily shifted. The under side of the clamp is provided with a stop 10, whose end is flush with the bottom of the arm. This stop limits the outward movement of arm 8 beyond a line perpendicular to the straight edge of the ruler, so that when both arms 5 and 8 are opened they will stand parallel to each other and parallel lines may be readily and accurately drawn at any predetermined distance apart by aid of the graduations on the adjacent edges of said arms. When not in use the arms may be folded in beneath the ruler, leaving the latter to be used for all ordinary purposes. Moreover, the ruler being supported always above the paper by the thickness of the clamps and of the arms, no ink will be transferred from the straight edge as the latter is slid over the paper.

As not infrequently it is desired to draw parallel lines extending clear across or from edge to edge of the sheet, I have provided short projections 11 at the end of and on the adjacent edges of arms 5 and 8. These projections permit the graduated arms to be separated the full width of the sheet and give a sufficient support and guide for the ruler and keep the latter out of contact with the sheet.

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

1. The combination with a ruler, of a fixed clamp at one end thereof, a slidable clamp thereon, and short graduated arms pivoted on the under side of said clamps.

2. The combination with a ruler, of fixed and slidable clamps thereon, short graduated arms pivoted on the under side and near the back edge of said clamps, and stop means by which the outward movement of said arms is restricted to arcs of ninety degrees each.

3. The combination with a ruler, of a clamp fixed on one end of said ruler, a projection on the lower side of said clamp extending beyond the end of the ruler, a short graduated arm pivoted on the under side of said projection, stop means engaging said projection to limit the outward movement of said arm, a slidable clamp on said ruler, a handle by which said clamp may be engaged, a short



graduated arm pivoted on the under side of said clamp, and a stop projection on said clamp engaging said arm to limit its outward movement.

- 5 4. The combination with a ruler, of clamps thereon, one of said clamps slidable in relation to the other, graduated arms pivoted on said clamps, and projections on the adjacent edges of said arms adapted to support the

latter on the intervening sheet for the purpose described.

In witness whereof I have hereunto set my hand.

SOLOMON ADLER.

Witnesses:

S. H. NOURSE,  
JESSIE C. BRODIE.