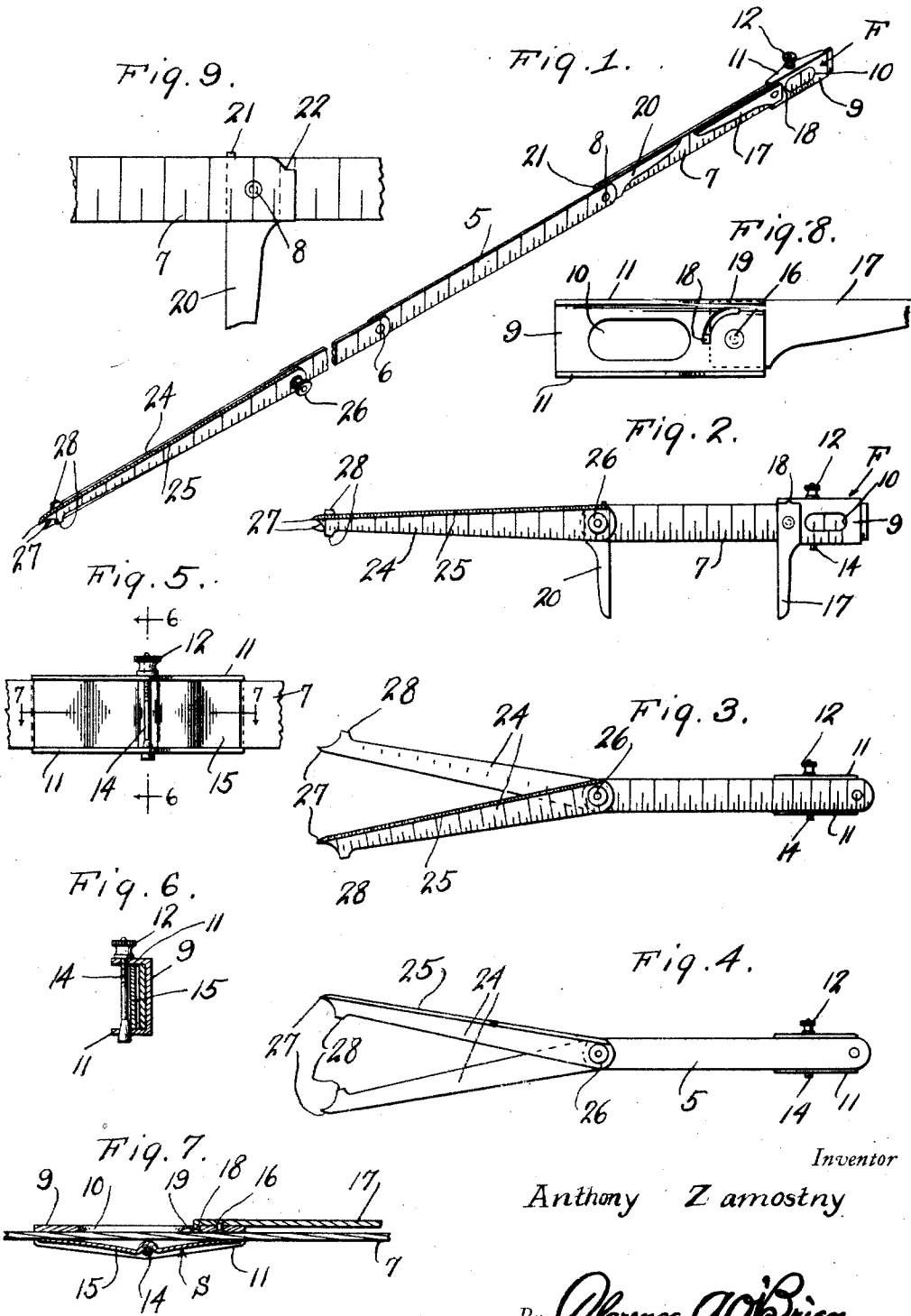


Feb. 12, 1929.

1,702,231

A. ZAMOSTNY
COMBINATION RULE

Filed Sept. 19, 1927



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UNITED STATES PATENT OFFICE.

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COMBINATION RULE.

Application filed September 19, 1927. Serial No. 220,426.

The present invention relates to a combination rule and has for its prime object to provide a rule comprising a plurality of foldable sections, the end sections of which

are constructed to form calipers and a gage.

Another important object of the invention resides in the provision of a combination rule of this nature which may be folded to provide a very compact and convenient device of this nature.

A still further important object of the invention resides in the provision of a combination foldable rule of this nature which is simple in its construction, inexpensive to manufacture, strong and durable, thoroughly efficient and reliable in use, and otherwise well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:—

Figure 1 is a perspective view of the rule showing the same extended,

Figure 2 is a folded view of the rule showing the gage arms extended,

Figure 3 is a partially folded view of the rule showing the caliper end section for inside measurements,

Figure 4 is a similar view showing the arms for outside measurement,

Figure 5 is a detail view of the slide for the gage,

Figure 6 is a section therethrough taken on the line 6—6 of Figure 5,

Figure 7 is a section taken on the line 7—7 of Figure 5,

Figure 8 is a detail view of the slide with the spring removed, and,

Figure 9 is a detail fragmentary view showing the stop on one arm of the gage.

Referring to the drawing in detail it will be seen that I provide one or more intermediate rule sections 5. Where there are a plurality of these intermediate sections 5 they are pivoted together as at 6. An end section 7 is pivoted to one of the end intermediate sections 5 as at 8 and has a slide frame F thereon comprising a rectangular plate 9 with an elongated slot 10 therein and longitudinal edge perpendicularly extending flanges 11. A bolt 12 extends through open-

ings in the centers of the flanges 11 and holds in place a spring S which is provided with an intermediate arcuate portion 14 from which extend plate-like portions 15 which are directed inwardly toward the slide frame plate 9 and the section 7 is received between the spring S and the plate 9 and between the flanges 11. By tightening the bolt 12 the flanges are bent inwardly and tighten the frictional engagement of the spring with the section 7. On this frame 9 at one end of the plate there is pivotally mounted as at 16 a gage arm 17 which is provided with a lug 18 movable in an arcuate slot 19 so that the arm 17 is limited to movement in a quadrant of a circle. Another arm 20 is pivoted to the section 7 by means of the pivot connection 8 and has a laterally extending lug 21 which abuts one longitudinal edge of the section 7 when disposed perpendicularly thereto as is shown in Figure 9 and abuts a shoulder 22 when folded over the section 7 as shown in Figure 1 thereby being limited to swing in a quadrant of a circle. These gage arms may be extended perpendicularly to the section 7 and the slide frame adjusted so as to measure the thickness of articles as will be readily apparent.

The other end section comprises a pair of elongated members 24 having straight edges 25 which may be disposed coincident to each other and coincident with the straight edges of the sections 5 and 7, these members 24 being pivoted to the other end intermediate section by means of a bolt 26 which may be tightened to hold the members with their straight edges coincident or to hold the members in different angular relation as is shown in Figures 3 and 4 so as to provide inside and outside calipers respectively. These members 24 terminate in points 27 which will be used for outside caliper measurements and with laterally extending projections 28 which will be used for inside caliper measurements. The sections 5, 7 and 24 may be provided with any suitable measuring indicia for taking linear measurements. The caliper members 24 may be provided with indicia to designate the angle therebetween and the indicia on the section 7 may obviously be used to indicate the distance between the gage arms 17 and 20.

It is thought that the construction, operation, and advantages of the invention will now be quite apparent to those skilled in this art without a more detailed description thereof. The present embodiment of the invention

has been disclosed in detail merely by way of example since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the
5 above description.

It will be apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope
10 of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:—

In a rule of the class described, a section,
15 an arm, means for pivotally mounting the arm on one end of the section to be limited to swing in an arc of ninety degrees so that the

arm may be placed in overlapping position on the section or extended perpendicularly thereto, a slide frame on the section, said slide
20 frame comprising a plate with flanges on opposite sides thereof perpendicularly thereto, a bolt extending through the flanges, a spring having an intermediate arcuate portion receiving the bolt end portions imping-
25 ing frictionally against the section to hold the frame in different adjusted positions, a second arm and means for pivotally mounting the second arm on the slide to limit it to
30 swing in an arc of ninety degrees so that it may be disposed perpendicularly to the section or in overlapping relation thereto.

In testimony whereof I affix my signature.
ANTHONY ZAMOSTNY.