

G. A. QUIRÓS.

RULE.

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1,064,006.

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Fig. 1

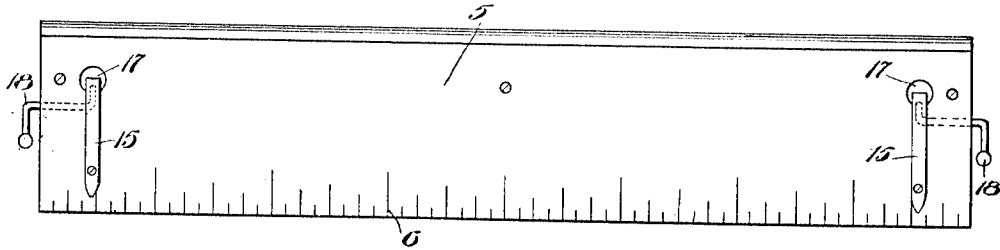


Fig. 2

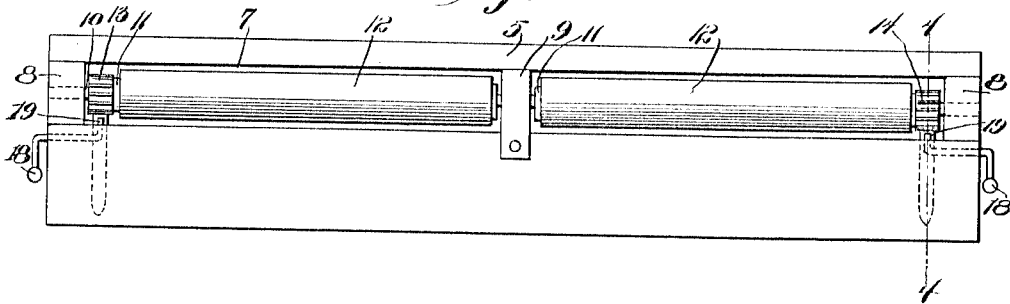


Fig. 3.

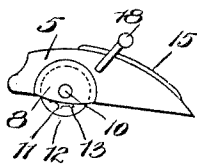
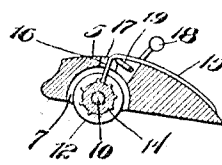


Fig. 4.



Witnesses

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RULE.

1,064,006.

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To all whom it may concern:

Be it known that I, GUSTAVO A. QUIRÓS, a citizen of the Republic of Cuba, residing at Sancti Spiritus, in the Province of Santa Clara and Republic of Cuba, have invented new and useful Improvements in Rules, of which the following is a specification.

The general object of this invention is the provision of a rule particularly adapted for use in ruling music staves, but it is also designed to be used by bookkeepers, accountants and the like, novel means being provided whereby a number of parallel lines may be drawn at even and predetermined distances apart.

In carrying out the objects of the invention generally stated above, it will be understood, of course, that the essential features thereof are susceptible to changes in details and structural arrangements, one preferred and practical embodiment being shown in the accompanying drawing, wherein:—

Figure 1 is a top plan view of the rule constructed in accordance with the invention. Fig. 2 is a bottom plan view thereof. Fig. 3 is an end elevation. Fig. 4 is a transverse section on the line 4—4 of Fig. 1.

Referring more particularly to the accompanying drawing in which like reference characters designate similar parts, it will be seen that the invention comprises a body 5 having a flat bottom surface and a convex upper surface, said upper surface being provided with the usual graduations 6. The bottom of the body 5 is provided for a major portion of its length with a longitudinally extending recess 7 having the end bearings 8 and intermediate bearing 9 extending transversely thereof. A shaft 10 is rotatably mounted in the said bearings and has secured thereon a pair of rollers 11 which have their inner end spaced by means of the bearing 9. The rubber bands 12 are fixed upon the rollers 11 and extending longitudinally thereof, said bands being adapted to frictionally engage a paper to be ruled, thereby preventing any movement of the rule when being used. Intermediate the outer ends of the rollers 11 and the end bearings 8, the shaft has fixed thereon the ratchet wheels 13 and 14, the latter having its teeth spaced a greater distance apart than the former for a purpose which will be presently described. The upper surface of the body 5 has secured thereto at each end

thereof a spring pawl 15 which extends transversely of the said body and is provided at its free end with an extension 16 which is adapted to project through an opening 17 formed in said body and normally engage the adjacent ratchet wheel. A crank handle 18 is rotatably mounted in each end of the body 5, the inner end of said handle being provided with an extension 19 which is adapted to engage the under surface of the adjacent pawl 15 whereby the latter may be raised out of engagement with the ratchet wheel when the latter is not in use. It is to be understood that only one of the ratchet wheels are in use at a time and by reason of the fact that the same are provided with teeth which are spaced different distances apart, it will be readily seen that the lines to be drawn are correspondingly spaced. Should it be desired to draw a number of lines having the minimum space therebetween, the handle 18 adjacent the ratchet wheel 14 is rotated thus causing the pawl 15 to disengage therefrom. When in this position the other pawl 15 will be in engagement with the ratchet wheel 13 and after each line is drawn and the rule moved, said pawl will engage the succeeding notch in the said ratchet wheel, thus preventing the rotation of the shaft 10 until further pressure is brought to bear against the rule. When it is desired to draw lines a greater distance apart, the position of the handle 18 is reversed and the rule operated in the manner just described.

From the foregoing description taken in connection with the accompanying drawing, it will be seen that the invention contemplates providing a rule which is comparatively simple in construction thus reducing the cost of manufacture of the same to a minimum, and which is durable and effective in carrying out the purpose for which it is designed.

What is claimed is:—

1. A rule comprising a body, spaced rollers mounted in said body, a ratchet wheel mounted adjacent the outer end of each of said rollers, pawls carried by said body and adapted to engage said ratchet wheels, and means rotatably mounted in each end of said body for moving the adjacent pawl out of engagement with its ratchet wheel.

2. A rule comprising a body having a longitudinal recess in one surface thereof, 110

end and intermediate bearings in said recess,
a shaft rotatably mounted in said bearings,
spaced rollers carried by said shaft, a ratchet
wheel carried by said shaft adjacent the
5 outer end of each of said rollers, pawls car-
ried transversely of said body and adapted
to engage said ratchet wheels, and means
rotatably mounted in each end of said body

for moving the adjacent pawl out of engage-
ment with its ratchet wheel.

In testimony whereof I affix my signature 10
in presence of two witnesses.

GUSTAVO A. QUIRÓS.

Witnesses:

JOSÉ FRELLES,

CARLOS MARIN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
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