DE RUYTER M. HOLLINS.

ROLLER WRITING GUIDE AND REST.

APPLICATION FILED DEC. 13, 1918.

1,308,355. Patented July 1, 1919.

Fig. 1.

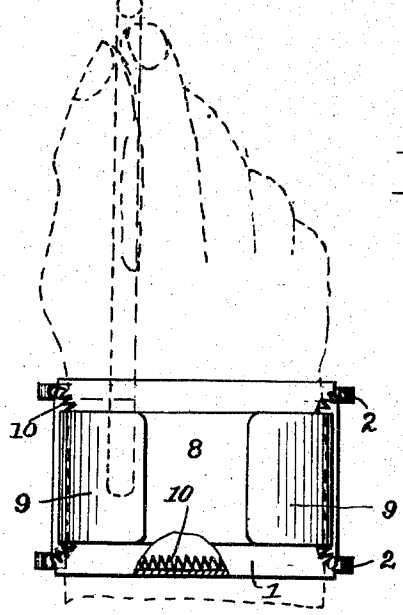


Fig. 2.

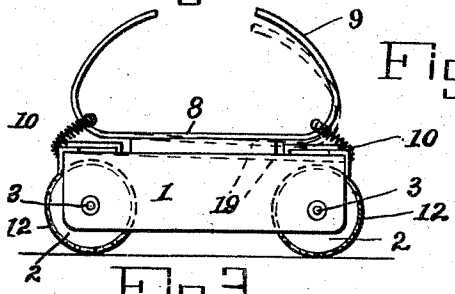


Fig. 3.

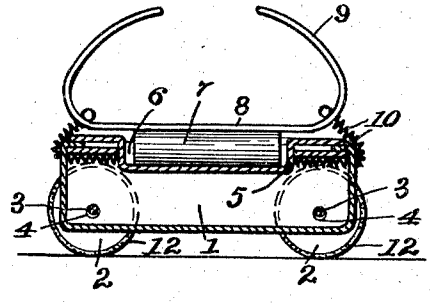


Fig. 4.

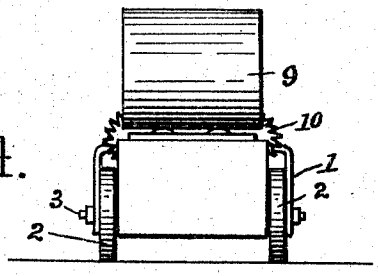


Fig. 5.

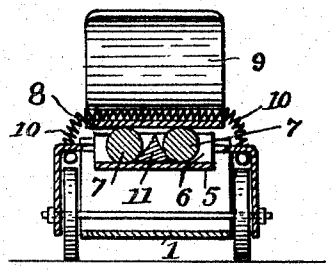


Fig. 6.

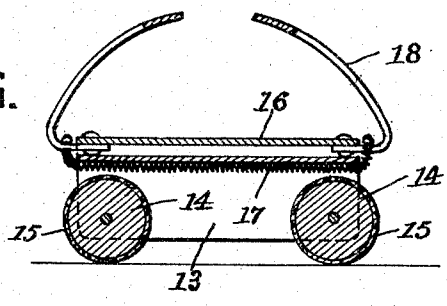
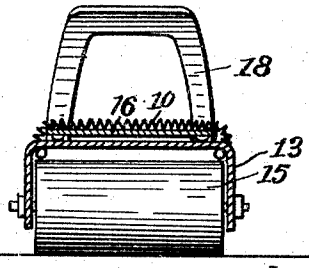


Fig. 7.



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UNITED STATES PATENT OFFICE.

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ROLLER WRITING GUIDE AND REST.

1,308,355. Specification of Letters Patent. Patented July 1, 1919.

Application filed December 13, 1918. Serial No. 266,607.

To all whom it may concern:

Be it known that I, DE RUYTER M. HOLLINS, a citizen of the United States, residing at New York, in the county and State of New York, have invented certain new and useful Improvements in Roller Writing Guides and Rests, of which the following is a full, clear, and exact specification.

This invention relates to hand supports for promoting free-hand writing and relieving the wrist and arm from fatigue.

It is the aim of the invention to provide a roller carriage for supporting the hand and wrist and which will afford the desired freedom of movement. To this end the rollers are mounted transversely of the wrist so as to permit the carriage to travel in line with the writing, and the part which is attached to the wrist is rotatably mounted on the carriage proper. Other objects and features of the invention will appear as the description proceeds.

The invention will be first hereinafter described in connection with the accompanying drawings, which constitute part of this specification, and then more specifically defined in the claims at the end of the description.

In the accompanying drawings, wherein similar reference characters are used to designate corresponding parts throughout the several views:—

Figure 1 is a broken plan view of a device made substantially in accordance with this invention, showing the position of the hand and wrist in dotted lines.

Fig. 2 is a side elevation of the holder or rest, the inclined position of the top of the device being suggested in dotted lines.

Fig. 3 is a central longitudinal section taken vertically through the device as shown in solid lines in Fig. 2.

Fig. 4 is an end elevation of the supporting carriage or rest.

Fig. 5 is a transverse vertical section of the device.

Fig. 6 is a longitudinal vertical section of a modified form of the invention, and

Fig. 7 is a transverse vertical section of the same.

Referring first to Figs. 1 to 5, inclusive, of the drawings, the carriage body 1 may be made of any suitable material, preferably of metal either nickel, silver or gold plated, and is mounted on rollers or wheels 2 of which four are shown in these figures. Said wheels or rollers 2 are loosely mounted on axles 3 which are in turn loosely journaled in the sides of the carriage, as indicated at 4, Fig. 3, so as to allow a certain amount of free play in operation.

In the upper face of the carriage body 1 there is placed a tray or plate 5 having a depression or recess 6 for housing roller bearings 7 on which the wrist engaging member 8 is seated. Said member 8 has adjustable flexible wrist fitting wings or arms 9, and is adapted to have a rotary movement on the carriage body. The roller bearings 7 provide for the easy movement of said member 8 on the carriage body in this way, and said movement is resiliently limited by the yielding spring 10 which passes along below the top of said body from end to end thereof and over the end portions of the member 8, as clearly illustrated in the drawings. As shown in Fig. 5, there may be two roller bearings 7 separated by a spacing piece 11.

It will be observed that the rollers or wheels 2 are set transversely to the wrist, so that the carriage or rest will move easily across the paper in line with the writing. Said wheels or rollers may be made of any suitable material, such as wood or metal, and are preferably covered with a soft material, such as rubber or felt, as at 12, to prevent them from injuring the surface over which they run and eliminate undue noise.

In the modified form of the invention illustrated in Figs. 6 and 7, the construction is similar to that already described except that the roller bearings between the carriage and wrist engaging member are omitted, and the rollers are lengthened and reduced in number from four to two. In this form of the invention the carriage 13 is supported upon two long transverse rollers 14, which are covered with a soft surface 15, and the wrist engaging member 16 seats directly on the carriage top, being yieldingly retained for rotary movement thereon by a spring 17 similar to the spring 10. The wrist fitting arms or wings 18 are also shown of skeleton formation in the modification.

It will be understood that the arms or wings 9 and 18 may be readily bent to fit wrists of different sizes and shapes so as to retain the support or carriage in position thereon while writing. If desired, one side of the device may be made slightly lower than the other, as suggested in dotted lines

at 19 in Fig. 2, for supporting the hand in the natural inclined position for writing. When in use the carriage will move across the paper and the wrist engaging member will rotate on the carriage to allow free manipulation of the hand and produce free-hand writing.

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

1. A support for the hand in writing comprising a carriage mounted on rollers and having a wrist engaging member rotatable thereon.

2. A support for the hand in writing comprising a carriage mounted on rollers, a wrist engaging member rotatably mounted on the carriage, and roller bearings between said member and carriage.

3. A support for the hand in writing comprising a carriage mounted on rollers, a wrist engaging member rotatably mounted on the carriage, and yielding means for normally retaining said member in line with the carriage.

4. A support for the hand in writing comprising a carriage mounted on rollers, a wrist engaging member rotatably mounted on said carriage, and adjustable means for attaching said member to the wrist.

5. A support for the hand in writing comprising a carriage mounted on rollers, and a rigid wrist engaging member mounted on the carriage and arranged on an incline to support the hand in position for writing with one side higher than the other.

In testimony whereof I have signed my name to this specification.

DE RUYTER M. HOLLINS.

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