W. NAUSE.

PENHOLDER GRIP.

APPLICATION FILED JUNE 11, 1910.

1,066,938. Patented July 8, 1913.

Fig. 1.

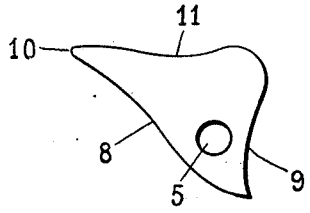


Fig. 4.

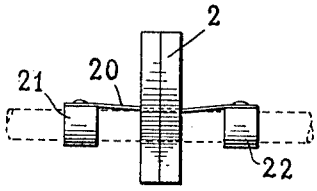


Fig. 3.

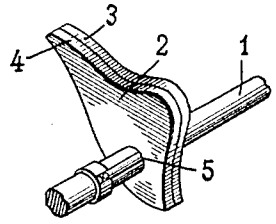


Fig. 2.

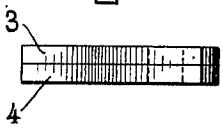


Fig. 5.

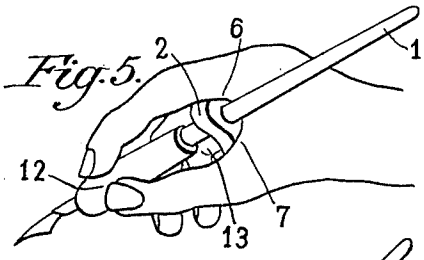


Fig. 6.

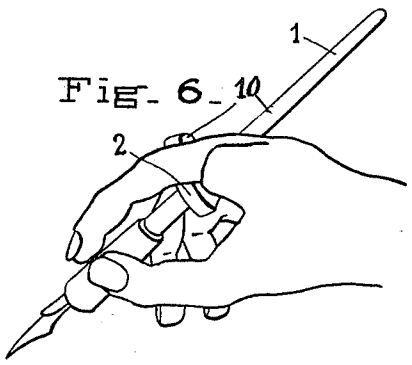


Fig. 7.

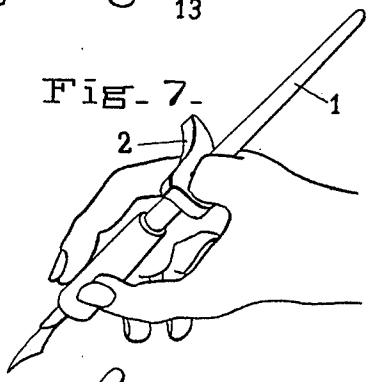
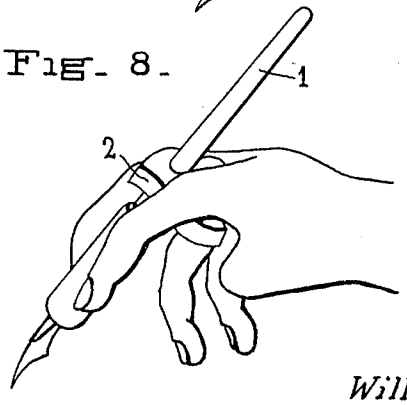


Fig. 8.



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PENHOLDER-GRIP.

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To all whom it may concern:

Be it known that I, WILLIAM NAUSE, a citizen of the United States, and a resident of Long Island City, in the county of Queens and State of New York, have invented certain new and useful Improvements in Penholder-Grips, of which the following is a description.

The invention relates to a device to be applied to pens, pencils or other devices which may be used for writing, drawing, printing and the like.

It relates more particularly to a device which may be adjusted upon a pen, pencil, or other device of similar character to permit the user certain latitude in operation which, in some instances, prevent so-called "writer's cramp" and in others, make the article adaptable to those who have hands crippled to a certain extent.

The object of the invention is to provide an adjustable member which may be applied to pencils, pens and the like or in fact, to any instrument to be used by the operator giving a firm holding part of sufficient size to prevent cramping of the digits of the hand.

A further object is to provide a device which will form a gripping part that may be used in connection with any of the several digits of the hand even where some of the digit members are lacking.

A still further object is to provide a device which will prevent cramping of the fingers or digits by providing a gripping member in addition to the comparatively small grip portion of the pen, pencil, or other instrument to which it may be applied.

Referring to the drawings: Figure 1 is a plan view of the device without the adjusting clip. Fig. 2 is an edge view of the same. Fig. 3 is a perspective view of the device showing it as applied to a pencil, pen, or like article. Fig. 4 illustrates the device with the adjusting clip in place, the pen or pencil being illustrated in dotted outline. Fig. 5 illustrates the device in use with a perfect hand, the adjusting clip being omitted for purposes of clearness in illustration. Fig. 6 indicates the use where the hand is partially crippled as by the loss of the first finger. Fig. 7 indicates a further use with a crippled hand. Fig. 8 illustrates its use where the thumb is missing from the hand.

Without detail explanation it is apparent that in order that a person having a crippled hand, whether it be from the loss of one or more of the digits or from the loss of power to grip a device with the ends of the fingers, there must be provided some means by which the entire strength or force of the hand or such portion as remains in free use and strength may be utilized to hold and properly direct the implement which it is desired to use. Furthermore, in ordinary use of a pen, pencil, or the like where the operator is constantly using the hand, there is a tendency to use the device with the ends of the fingers and as the fingers are "bowed" to a considerable extent, this causes a cramping action which is commonly known as "writer's cramp."

It is one of the objects of the present invention to provide a device which will support the fingers at a point intermediate their contact with the instrument and their juncture to the hand so that the action of the muscles will cause a distribution of pressure upon the instrument and will relieve the tensioning of the muscles which causes "writer's cramp."

To effect the desired results, there is shown herein a simple form of device which may be applied to a pen, pencil, or the like and resting in the hand and against the fingers will relieve the undue tension upon the ends of the said fingers, thus insuring a free and easy use of the hand and its fingers and thumb without undue cramping.

Referring to the drawings, the numeral 1, denotes a pen-holder, pencil, or other device or tool to which is applied the gripping member 2. This gripping member, as illustrated, may be formed of laminated sections or may be a solid piece of material of any desired character which may be adjusted longitudinally of the implement to be used. It is preferred to use a comparatively resilient material such as soft rubber, which, while being stiff enough to hold its general form, may be adjusted upon the instrument or implement at any desired point.

As illustrated in Figs. 1, 2 and 3, the device consists of the laminated sections 3, 4, having a perforation 5, through which the implement may be passed and by which the gripping member may be adjusted longitudinally thereof. As shown herein, the gripping member has curved edges and of course, the curvature of the edges and the configuration of the parts may be adapted

for any particular use. That is, the gripping member may be formed especially for any form of crippled hand, or with curvatures, as illustrated, which fit very many of the conditions attendant upon the loss of one or more fingers or the thumb.

The gripping member is arranged upon the instrument at any desired position and as illustrated in Fig. 5, forms a grip for the first finger as at 6, and the thumb as at 7. The gripping part 6, corresponds to the curved face 8, illustrated in Fig. 1, while the gripping portion 7, corresponds to the curved face 9. The point 10, formed at the juncture of the curved face 8, and the curved face 11, is such as to fit nicely between the first and second fingers of the hand. The grip thus formed acts as a support for the fingers between their real gripping point upon the implement as at 12, and the hollow formed in the hand as at 13.

In Fig. 6, the point 10, is illustrated as passed between the second and third fingers with the curved part 11, resting against the third finger and the curved part 8, bearing against the second finger. In this case, the first finger is shown as removed. The thumb and second finger or the thumb, second and third finger may be used to grip the end of the implement nearest its working point and the grip member gives an additional support and a large and substantial support for the implement as it may be clamped between the fingers.

Fig. 7 illustrates a still further use of the device illustrating its adaptability to the use of crippled hands.

Fig. 8 shows the device in use where the thumb has been removed and where ordinarily a pencil could only be held between two adjacent fingers. With the device herein contemplated, the implement may be very firmly grasped inasmuch as the inside of the first finger may be brought to bear upon the curved side 9, while the second finger overlies the curved edge 8, and the third finger at its upper side rests against the curved side 11, with the point 10, projecting between the second and third fingers. In this arrangement, the implement may be very firmly held owing to the attachment which gives a firm grip of the digits or fingers without requiring their firm pressure at their ends. In other words, the main holding force may be taken up on the grip member, while the guiding and direction of movement of the instrument may be controlled by the ends of the fingers.

In Fig. 4, the gripping member 2 is illustrated in conjunction with the clip member for adjusting it upon a pencil or the like. In this figure, a bar or like device 20 of spring form bears upon the edge or side of the implement giving it a frictional hold thereon. The bar 20, is secured to clips 21, 22, which are of the spring clip form. With this arrangement, the spring clips, bar and grip member may be slid longitudinally upon a pen, pencil or the like. It is quite immaterial whether the device is used upon one or another form of implement so long as it provides a gripping member somewhat remote from the working end of the instrument and gives a secure hold for one or more digits of the hand.

Obviously, the device might be formed of various materials and may be made in various forms although as herein shown, it contains a combination of curved edges which suit almost any hand having one or two digits remaining, which may be used coöperatively with the stump of the hand for firmly gripping and guiding the instrument.

What I claim as my invention and desire to secure by Letters Patent is:

In a device of the character described comprising a body-part, a supporting bar therefor, clips for attaching said bar to an instrument and means appurtenant to the clips, bar and body-part for holding the device in predetermined positions of adjustment upon an instrument.

WILLIAM NAUSE.

Witnesses:
KATE BRENNER,
FRANCIS COLETY.

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