Feb. 17, 1925.

1,526,951

G. B. BEAUMONT

GOLF CLUB

Filed March 20, 1923

2 Sheets-Sheet 1

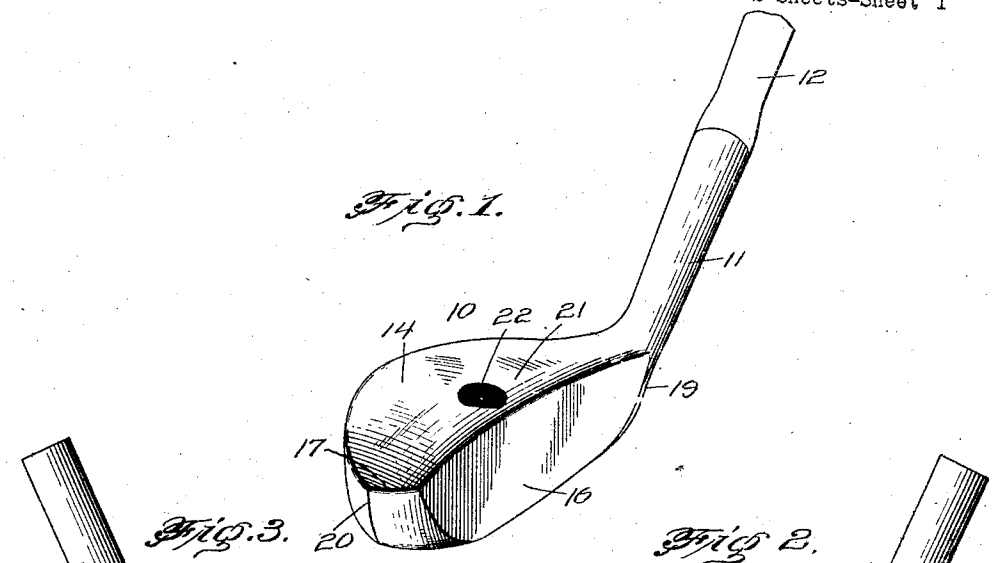


Fig. 1.

Fig. 3.

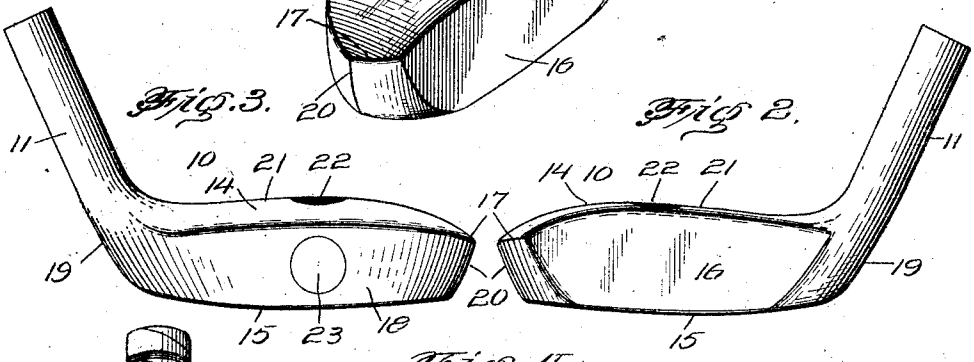


Fig. 2.

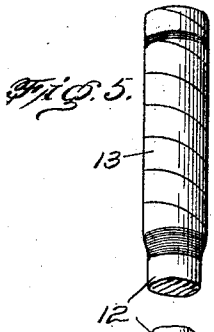
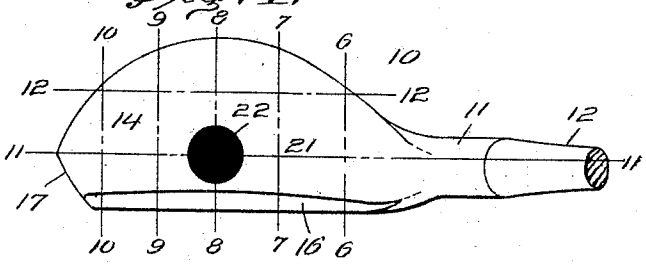


Fig. 5.

Fig. 4.



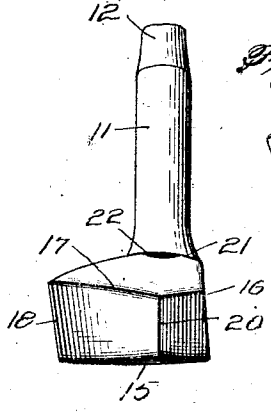


Fig. 13.

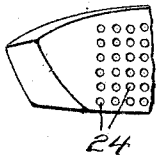


Fig. 14.

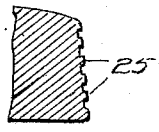
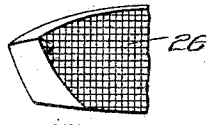


Fig. 15.



INVENTOR.

G. B. Beaumont.

BY

Geo. B. Kimmel.

ATTORNEY.

Feb. 17, 1925.

G. B. BEAUMONT

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Fig. 6.

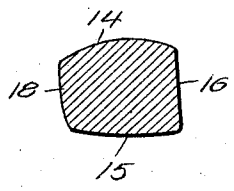


Fig. 7.

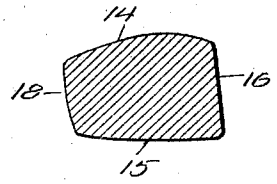


Fig. 8.

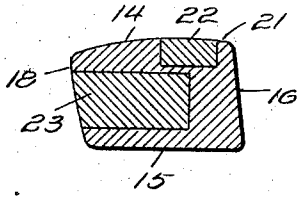


Fig. 9.

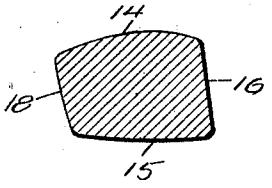


Fig. 10.

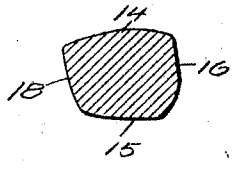


Fig. 11.

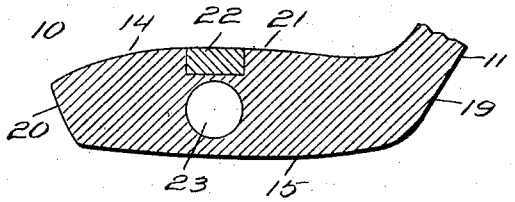
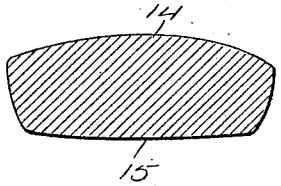


Fig. 12.



INVENTOR.
G. B. Beaumont.

BY
Geo. P. Kimmel.
ATTORNEY.

Patented Feb. 17, 1925. 1,526,951

UNITED STATES PATENT OFFICE.

GREEN BERRY BEAUMONT, OF NEW YORK, N. Y.

GOLF CLUB.

Application filed March 20, 1923. Serial No. 626,346.

To all whom it may concern:

Be it known that I, GREEN BERRY BEAUMONT, a citizen of the United States, residing at New York, in the county of the New York and State of New York, have invented certain new and useful Improvements in Golf Clubs, of which the following is a specification.

This invention relates to golf clubs, more particularly to the head of a putter, and has for its object to provide, in a manner as hereinafter set forth, a golf club including a putter head so shaped and constructed that the light rays are deflected therefrom in directions away from the eyes, so as not to impair the vision of the player when guiding, sighting and positioning the striking face of the head with respect to the ball, under such conditions materially augmenting the result of a putting stroke when the club is employed for putting.

A further object of the invention is to provide, in a manner as hereinafter set forth, a golf club including a curved balanced putter head having embedded therein a weighting element so disposed whereby the heaviest part of the head is at the transverse center thereof, and further so disposed whereby said element will be positioned inwardly with respect to the striking face of the head and below the high part of the upper face of the head, and further in line with the shaft and toe whereby the player will know that the heavier part of the head is at the transverse center thereof so that the player can govern himself during the guiding, sighting and positioning of the striking face of the head with respect to the ball.

A further object of the invention is to provide, in a manner as hereinafter set forth, a golf club including a putter head so shaped and constructed as to provide for a proper stance when putting, irrespective of the height of the player, or the position assumed by the player when holding the shaft of the club in connection with a putting stroke.

A further object of the invention is to provide, in a manner as hereinafter set forth, a golf club including a putter head whereby the top thereof is so curved that an invisible high line is set up, extending from the socket or heel of the head to the point of the toe thereof, and with the curve of the top sloping slightly in opposite directions from said invisible high line towards the sides of the putter and further with the curves sloping in opposite directions towards the heel and toe of the head but with a greater slope towards the toe than in a direction towards the heel, and by setting up this sloping formation the highest point of the top of the head is at the transverse center thereof and whereby the center of the head under such conditions can be readily ascertained by the player.

A further object of the invention is to provide, in a manner as hereinafter set forth, a golf club including a putter head formed with a curvilinear bottom sloping transversely and longitudinally whereby the head can be set for a putting stroke whether it is positioned on the middle of its bottom, or on the toe, or on the heel, or at any point between the toe and the heel.

A further object of the invention is to provide, in a manner as hereinafter referred to, a golf club including a putter head provided at its heel with a socket for the reception of the shaft of the cub and with the striking face of the head arranged slightly forward of the socket and projecting a greater distance forwardly of the socket at its lower portion than at its upper portion, whereby said striking face from its bottom to its top will incline slightly rearward with respect to the socket so that the point of the striking face coming in contact with the ball will strike the ball just below its horizontal center, and owing to the manner in which the striking face is set up with respect to the socket, it enables the putter to be lined up as to direction without having the shaft or socket interfering when the player is looking down on the top of the head.

A further object of the invention is to provide, in a manner as hereinafter set forth, a golf club including a putter head so curved as to eliminate any definite lines that might affect or deceive the eye or impair the vision of the player when using the club.

A further object of the invention is to provide, in a manner as hereinafter set forth, a golf club including a putter head provided with a weighting element and further with a guide or indicator element positioned in the top of the head and arranged over one end of the weighting element, and in addition to the shape of the head for indicating the center

of the head the said guide or indicator will indicate the heaviest part at the forward side of the head near the striking face and further enable the player to see on his back swing whether or not, from the guide or indicator element, that the head is swinging straight back.

A further object of the invention is to provide, in a manner as hereinafter set forth, a golf club including a putter head so shaped and constructed and including a weighting element for reducing to a minimum the possibility of the club turning on the back swing, or the swing through towards the ball and after hitting the ball.

A further object of the invention is to provide, in a manner as hereinafter set forth, a golf club including a putter head provided at its end with a socket forming member for the reception of the shaft of the club and so positioning and shaping said member to prevent any interference thereby with the lining up of the putter to the ball for direction, and to further dispose the member at such angle from the bottom of the head as to make it possible to hold the club to position the eye directly over the ball.

Further objects of the invention are to provide, in a manner as hereinafter set forth, a golf club which is simple in its construction and arrangement, strong, durable, thoroughly efficient in its use, compact, readily assembled and comparatively inexpensive.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts as hereinafter more specifically described and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claims hereunto appended.

Figure 1 is a perspective view of a golf club, in accordance with this invention.

Figure 2 is a side elevation thereof looking towards the leading side or strikng face.

Figure 3 is a side elevation thereof looking towards the follower or rear side.

Figure 4 is a top plan.

Figure 5 is an end view looking toward the toe.

Figure 6 is a section on line 6—6, Figure 4.

Figure 7 is a section on line 7—7, Figure 4.

Figure 8 is a section on line 8—8, Figure 4.

Figure 9 is a section on line 9—9, Figure 4.

Figure 10 is a section on line 10—10, Figure 4.

Figure 11 is a section on line 11—11, Figure 4.

Figure 12 is a section on line 12—12, Figure 4.

Figure 13 is a fragmentary view, in side elevation, of a modified form of striking face.

Figure 14 is a vertical sectional view illustrating another modified form of striking face.

Figure 15 is a face view illustrating still another modified form of striking face.

The head of a golf club, in accordance with this invention may be constructed of any suitable material, such as aluminum, wood, bronze, brass, iron or any suitable composition, and by way of example, the golf club is illustrated as having its head constructed of aluminum and its weighting element of lead, but it is to be understood that the head and weighting element can be set up of any suitable material.

Referring to the drawings in detail, a golf club in accordance with this invention, comprises a head referred to generally by the reference character 10, and which is provided with an extension 11, hollowed to provide a socket for the reception of the shaft 12, the latter is wrapped, as at 13, to provide a hand grip. The head 10 comprises a top 14, a bottom 15, a striking face or leading side 16, a toe 17, a follower or rear side 18 and a heel 19, with which the extension 11 is formed integral and projects upwardly therefrom at a rearward inclination.

The extension 11 terminates in the heel 19, slightly rearwardly with respect to the striking face 16, and the heel 19 is inclined forwardly from its top to its bottom whereby the lower portion of the heel will project slightly in advance of the upper portion, and the striking face 16 is arranged along the same lines, that is to say, it inclines slightly forward from the top to the bottom thereof, or in other words, the striking face 16 inclines slightly rearwardly from its top to its bottom. The striking face 16 is of less length than the length of the head and at its rear merges into the heel 19 and at its front merges into the toe 17, the latter is provided with a point 20, which is substantially in alignment with the axis of the extension 11.

The head 10 gradually increases in width from the heel 19 to the transverse center of said head 10, and the latter gradually decreases in width from its transverse center to the toe 17.

The front of the toe 17 slopes inwardly from the top 14 to the bottom 15, and the rear side 18 of the head 10, slopes inwardly from the top 14, to the bottom 15. The heel 19 slopes inwardly from its upper portion to its lower portion where it merges into the bottom 15.

The top 14, of the head 10, is arcuate in contour in transverse and in longitudinal section at any point throughout the width or

length thereof and with the high part of the curve in alignment with the point 20, of the toe and further in alignment with the axis of the extension 11. The top 14, slopes downwardly from the high part of the curve towards the striking face 16, and also slopes downwardly from the high part of the curve towards the side 18, but the slope towards the side 18 is greater than the slope towards the side 16.

The top 14 from the transverse center thereof towards the heel 19, slopes downwardly, and the top 14 from the transverse center thereof to the toe 17 also slopes downwardly, but the slope towards the toe 17 is greater than the slope towards the heel 19. The high part of the curvature of the top 14 provides an invisible line arranged in alignment with the axis of the extension 11, and with the point 20 of the toe 17, and the position of the said line is indicated at 21, and said line extends lengthwise of the head 10.

The rear side 18, of the head 10, is segment shaped in contour and merges into the point 20 of the toe. The side 18 gradually decreases in height from the transverse center of the head towards the heel 19.

The bottom 15, from its transverse center to the toe 17, gradually decreases in width, and the bottom 15 from its transverse center to the heel 19 also gradually decreases in width. The length and width of the bottom is slightly less than the length and width of the top, and said bottom 15 is upon an arc of a circle both longitudinally and transversely at any point throughout and is inclined slightly upwardly throughout from the side 16 towards the side 18, the transverse arc of the bottom being greater than the longitudinal arc thereof.

The head 10 is provided with a guide or indicator element and also with a weighting element, and said guide or indicating element may be of any suitable contour, but by way of example, it is shown of circular contour and is indicated at 22. The guide element is formed from any suitable composition of matter, or other material, of a color which will make it very distinctive with respect to the top of the head. and the center of said element 22 is intersected by the transverse center of the head, as well as the invisible high line formed by the curvature of the top 14, of the head, and the center of said element 22 is in alignment with the axis of the extension 11 and the point 10. The guide element 22, is also positioned at the inner terminus of the weighting element which will be presently referred to. The element 22 is flush with the upper face of the head 10 and spaced slightly rearwardly from the top of the striking face or leading side 16.

The weighting element, which is indicated by the reference character 23, by way of example, is a cylindrical body of lead which extends transversely of the head 10, at the transverse center thereof, and terminates at a point rearwardly from the striking face or leading side 16. The element 23 is disposed centrally with respect to the top and bottom of the rear side 18, and is furthermore disposed centrally with respect to the top and bottom of the head 10, and the inner end of the weighting element 23 terminates directly in alignment with respect to the axis of the extension 11 and the point 20 of the toe 17, and the said inner terminus of the weighting element 23 is positioned to align with the center of the guide element 22, or in other words, the inner end of the weighting element 23 is positioned directly below the invisible high line formed by the curved top of the head 10, and is arranged at a point centrally with respect to said high part of the invisible line.

The curvature of the top 14, of the head 10, is such that it provides an invisible high line, running from the extension 11 towards the point at the toe and with the curvature sloping slightly from the invisible high line towards the side 16, as well as sloping from the invisible high line towards the side 18, and said curvature further slopes from the transverse center towards the heel and from the transverse center towards the toe, under such conditions making the center of the length of the head the highest point, and by this manner of setting up the top 14, the light rays are directed or deflected from the top 14 in directions away from the eye so as not to impair the vision of the player when guiding, sighting and positioning the striking face of the head with respect to the ball.

Owing to the curvature of the top of the head, as well as the curvature of the bottom thereof, the head will set the same whether setting in the middle of the bottom or on the toe, or on the heel, or on any point between the toe and heel.

By extending the striking face 16 slightly forward of the extension 11, as well as setting said striking face up in an inclination, in the manner as heretofore stated, the face coming in contact with the ball will first strike the ball just below its horizontal center, and by positioning the striking face slightly forward with respect to the extension 11, it enables the putter to be lined up as to direction without having the shaft or socket interfere when looking down on the top of the head.

By setting up the weighting element in the manner as stated, the heaviest part of the head is directly at the center of its length and the weighted part of the head can be readily ascertained by the player through the invisible high line in connection with the guide element, and owing to setting up the

head with the weighting element in the manner as set forth, a player can readily put the ball at an angle by striking the ball with the face 16 at a point to either side with respect to the position of the weighting element.

The guide element indicates the heaviest part of the head near the striking face, and as the guide element is free of any points or angles, it enables the player to see on his back swing whether or not he is swinging straight back.

The shape of the head, in connection with the loading or weighting thereof, is intended to prevent as much as possible the possibility of the club turning on the back swing, or the swing through towards the ball and after hitting the ball. The manner of setting up the extension with respect to the head, is such that it places the shaft and extension in such manner as to not interfere with the lining up of the putter for the ball, and the angle of the extension from the bottom of the head, is such, as to make it possible to hold the club in such manner as to get the eye directly over the ball.

The shaft 12, is extended into the extension 11, and is flush therewith, and further is secured in any suitable manner to the extension 11, preferably by riveting.

The striking face or leading side 16, may be roughed by small recesses arranged close together, as indicated at 24, in Figure 13, or scored with small ribs arranged close together and extending lengthwise thereof, as indicated at 25 in Figure 14, or can be scored longitudinally and transversely as indicated at 26, Figure 15.

Although the preferred embodiment of the golf club, in accordance with this invention is as described and illustrated, yet it is to be understood that changes in the details of construction can be had which will fall within the light of the invention as claimed.

What I claim is:—

1. A golf club comprising a head embodying a one-piece body portion formed with a striking face and a follower side and further having the top thereof provided with a high part extending lengthwise from end to end of the top and arranged exteriorly of said top, said body portion further formed centrally thereof with a transversely disposed opening extending from the follower side and further having a centrally disposed vertically extending opening in the top thereof, said vertical opening of less length than said transverse opening, the inner walls of said openings spaced from each other, a weight member snugly fitting said transverse opening and having its outer end flush with said follower side and its inner end abutting against the inner end of the opening, a guide member mounted in said vertical opening and flush with the top of the body portion, the axis of said guide member arranged in direct alignment with the inner end of said weight member.

2. A golf club comprising a head having a socket forming extension for a handle angularly disposed relatively thereto and further having a toe provided with a point, said head projected slightly forward of said extension, and said point arranged in alignment with respect to the axis of said extension, said head having its top provided with a raised part extending lengthwise thereof and arranged in alignment with respect to said point and the axis of said extension, a transversely extending weighting element embedded in said head centrally thereof and having its inner terminus arranged in direct alignment with respect to said raised part and its outer terminus positioned at the rear side of said head, and a guiding element mounted in and flush with the top of said head and having its axis arranged in alignment with respect to said raised part and the inner terminus of said weighting element.

3. A golf club comprising a head having a socket forming extension for a handle angularly disposed relatively thereto and further having a toe provided with a point, said head projected slightly forward of said extension and said point arranged in alignment with respect to the axis of said extension, said head having its top provided with a raised part extending lengthwise thereof and arranged in alignment with respect to said point and the axis of said extension, a transversely extending weighting element embedded in said head centrally thereof and having its inner terminus arranged in direct alignment with respect to said raised part and its outer terminus positioned at the rear side of said head, and a guiding element mounted in and flush with the top of said head and having its axis arranged in alignment with respect to said raised part and the inner terminus of said weighting element, said head having its forward side constituting a striking face, and said high part and the inner terminus of said weighting element spaced from said striking face.

4. A golf club comprising a head provided with sloping surfaces extending laterally in both directions and lengthwise in both directions for deflecting light rays therefrom, said head further provided with a striking face with a follower side, a weighting element embedded in said head centrally and transversely thereof and having its inner terminus spaced from said striking face, and a guide element mounted in the top of said head and having its axis positioned in alignment with the inner terminus of said weighting element.

5. A golf club comprising a head provided

with sloping surfaces extending laterally in both directions and lengthwise in both directions for deflecting light rays therefrom, said head further provided with a striking face, with a follower side, a weighting element embedded in said head centrally and transversely thereof and having its inner terminus spaced from said striking face, and a guide element mounted in the top of said head and having its axis positioned in alignment with the inner terminus of said weighting element, said head further provided at one end with a toe and at its other end with an angularly disposed socket extension for a shaft, and further having its top provided with a lengthwise extending high part arranged in alignment with the axis of said extension and with the axis of said guide element.

6. A golf club comprising a head having one end provided with a socket forming member and its other end with a toe formed with a point, said head offset slightly forward of said member and having said point arranged in alignment with the axis of said member, a transversely disposed and forwardly extending weighting element embedded in said head centrally thereof and having its inner end terminating at a point in alignment with the axis of said member, and a guide element mounted in and flush with the top of said head and having its axis arranged in direct alignment with respect to the inner terminus of said weighting element.

7. A golf club comprising a head having one end provided with a socket forming member and its other end with a toe formed with a point, said head offset slightly forward of said member and having said point arranged in alignment with the axis of said member, a transversely disposed and forwardly extending weighting element embedded in said head centrally thereof and having its inner end terminating at a point in alignment with the axis of said member, and a guide element mounted in and flush with the top of said head and having its axis arranged in direct alignment with respect to the inner terminus of said weighting element, said head having its top formed with a distinctive high part extending lengthwise thereof and arranged in alignment with respect to the axis of said guide element.

8. A golf club comprising a head provided with a striking face, a forwardly extending weighting element embedded in said head centrally of its transverse center and having its inner end terminating at a point removed from said striking face, a guide element mounted in and flush with the top of said head and having its axis in alignment with the inner end of said weighting element.

9. A golf club comprising a head provided with a striking face, a forwardly extending weighting element embedded in said head centrally of its transverse center and having its inner end terminating at a point removed from said striking face, a guide element mounted in and flush with the top of said head and having its axis in alignment with the inner end of said weighting element, and means for connecting a shaft to one end of said head, said means having its axis in alignment with the axis of said guide element.

10. A golf club comprising a head consisting of a body formed of one piece of material having its rear side curving inwardly towards the bottom thereof and its forward side flattened to provide a striking face extending at a rearward inclination from the bottom to the top thereof, said body provided centrally with a transverse opening extending from its rear side and terminating at a point removed from said forward side, a weighting element mounted in said opening and its outer terminus flush with said rear side, and a guide element at the transverse center and offset with respect to the longitudinal center of the top of said body and having its axis arranged in alignment with the inner terminus of said weighting element.

11. A golf club comprising a head consisting of a body formed of one piece of material having its rear side curving inwardly towards the bottom thereof and its forward side flattened to provide a striking face extending at a rearward inclination from the bottom to the top thereof, said body provided centrally with a transverse opening extending from its rear side and terminating at a point removed from said forward side, a weighting element mounted in said opening and its outer terminus flush with said rear side, and a guide element at the transverse center and offset with respect to the longitudinal center of the top of said body and having its axis arranged in alignment with the inner terminus of said weighting element, said body further provided at its rear ends with an angularly disposed socket forming member for the reception of the shaft of the club and at its forward end with a toe formed with a point, the axis of said member and said toe arranged in alignment and further aligning with the axis of said guide element.

In testimony whereof, I affix my signature hereto.

GREEN BERRY BEAUMONT.