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GOLFER'S HEAD MOVEMENT INDICATING DEVICE

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FIG. 1

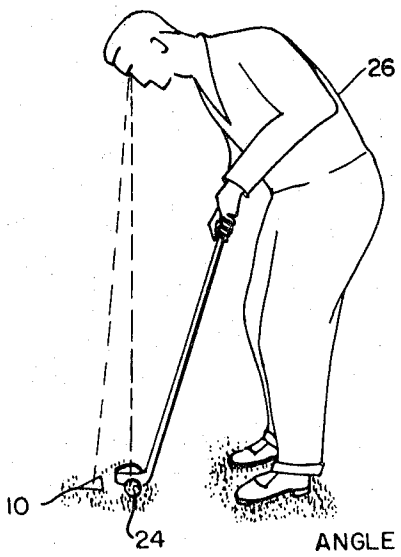


FIG. 2

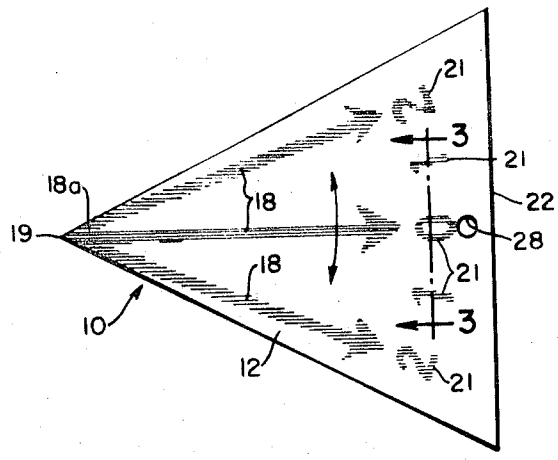
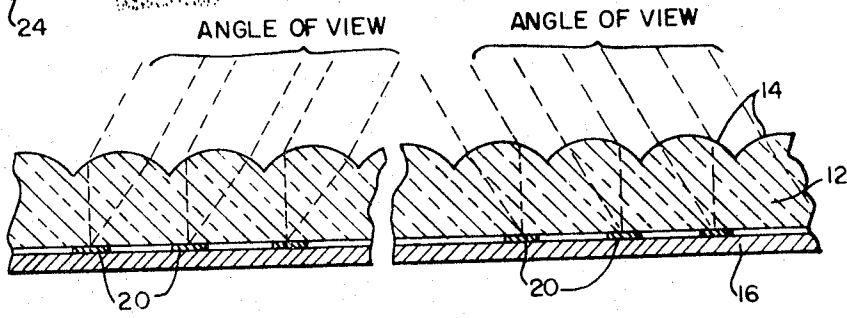


FIG. 3



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GOLFER'S HEAD MOVEMENT INDICATING DEVICE

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4 Claims

ABSTRACT OF THE DISCLOSURE

A lenticular member includes an aperture for receiving a golf tee and an elongated indicia design which appears to pivot about an end thereof if a golfer moves his head from one side to the other while viewing said design as a golf ball is addressed.

The present invention relates to a device that indicates to the user that movement of his head has occurred, and more particularly to a lenticular device of this type.

In order to facilitate an understanding of this invention, it is hereinafter described in connection with its use as an aid to a golfer to indicate movements of his head while swinging a golf club. It is to be understood, however, that this description is merely to illustrate the invention and thus not in any way limit the same.

There are occasions when it may be desirable to keep one's head in a fixed position while moving other parts of the body such as in the game of golf where many authorities consider it desirable for a golfer to keep his head in a fixed position so that his eyes constantly focus on the golf ball while swinging a golf club.

An object of the present invention is to provide a lenticular device that indicates to the user when his head has moved relative to the lenticular device.

It is another object of this invention to provide such a lenticular device for use as a golf aid which may be placed adjacent a golf ball to indicate to the user whether he has moved his head in relation to the device and the golf ball while swinging a golf club.

Various other objects, features and advantages of the invention will be apparent from the following description and from the accompanying drawing:

FIGURE 1 is a view illustrating a person with a golf club addressing a golf ball with the lenticular device of this invention placed adjacent the golf ball.

FIGURE 2 is a top view to an enlarged scale of the lenticular device of FIGURE 1.

FIGURE 3 is a diagrammatic sectional view to an enlarged scale of a lenticular device of FIGURE 1 illustrating the operating principles of this invention.

The lenticular device for indicating head movements of the user has a lens sheet of transparent material with a plurality of parallel lenticular ridges forming lens elements, and has a carrier sheet disposed under the lenticular lens sheets with an upper surface in face to face contact with the lens sheet. The upper surface of the carrier sheet has a design formed thereon consisting of an indicating portion extending radially from a stationary portion, and the entire design is resolved graphically into a series of segments in the form of parallel complementary lineations so that any movement of the head of the user relative to the lenticular device causes the indicating portion of the design to appear to rotate about the stationary portion.

In the disclosed embodiment the lens sheet and carrier sheet are triangular in shape, and the design has an elongated member extending from one apex of the triangular shaped sheets towards the side opposite the apex.

The elongated member may be in the form of an arrow or a plurality of arrows pointing towards indicia printed on the carrier sheet in a conventional manner to provide a reference to indicate to the user the degree of movement of his head relative to the lenticular device.

The carrier sheet may be opaque with a white surface to provide a contrasting background for the design which may be red in color for convenient viewing. The lens sheet may be made of a synthetic plastic material such as cellulose acetate and fastened to the carrier sheet by means of an adhesive.

For the convenience of a golfer using the lenticular device, an aligned aperture may be provided in the lens and carrier sheets for inserting a golf tee so that both the lenticular device and golf tee may be simultaneously placed into position for the convenience of the user.

Referring now to the drawing, the lenticular device, generally designated by the numeral 10, has a lenticular lens 12 which is made of suitable transparent sheet material such as clear synthetic plastic, and has a top surface formed with a plurality of parallel semi-cylindrical lenticular ridges 14 which serve as lens elements. The lenticular lens 12 is cut in a triangular shape and is superimposed on a similarly shaped carrier sheet 16 disposed below the lenticular lens 12 having a top surface in face to face relationship therewith. The top surface of the carrier sheet 16 has a design 18 thereon consisting of a reproduction of three arrows extending radially from a stationary portion 18a of the design 18 adjacent the apex 19 of the triangular sheet 16 and resolved graphically into a series of segments in the form of parallel fine complementary lineations 20 for viewing through lens 12 as illustrated in FIGURE 3. The three arrows are related so that when viewed successively by movement of the head of the user, they convey the image of arrows rotating about the stationary portion 18a of the design 18.

The lenticular lens 12 is formed so that ridges 14 extend perpendicular to the side 22 of the lens 12 that is opposite to the apex 19, so that as illustrated in FIGURE 3 the lens 12 is in optical registry with the lineations 20 forming the design 18. The process of making lineations 20 that are in optical registry with the lenticular lens 12 is described in United States Letters Patent, Patent No. 2,815,310 issued Dec. 3, 1957 to V. G. Anderson. The arrows of the design 18 extend toward the side 22 and point to a font of numerals 21 printed in a conventional manner on the sheet 16 adjacent the side 22. The numeral in the center of the font is zero and the numerals on each side thereof are 1 and 2 respectively to indicate to the user how far the image of an arrow of design 18 has appeared to move from its original position.

The lenticular device 10 may be used by placing it adjacent a golf ball 24 in view of a user 26 with the side 22 facing the user. As the user looks down at the golf ball, the central arrow of design 18 will be aligned with the zero printed on sheet 16 and the other two arrows will appear to be positioned on either side of the central arrow approximately pointing toward the numerals 2 on opposite sides of the zero. When the golfer addresses and swings the golf club, any movement of his head is immediately indicated by the apparent rotation of the arrows about apex 19 away from their original position in accordance with which direction the user's head has moved. Accordingly, it is necessary that the user keep his head in a fixed position relative to the lenticular device 10 and golf ball 24 to prevent movement of the arrows of design 18.

The lenticular device 10 may be provided with an aperture 28 for inserting a golf tee therein for the convenience of the user so that he may conveniently position the golf tee and the lenticular device at the same time.

Accordingly, this invention provides a novel lenticular device for indicating when movement of the head of the user has occurred by means of a design having an arrow which appears to rotate upon movement of the users head. The device is especially useful as a golf aid for indicating movements of the head of a golfer by simply placing the lenticular device adjacent the golf ball and observing if any rotation of the arrows occur.

It will be understood that the foregoing description with the details of exemplary structure is not to be construed in any way to limit the invention, but that modifications may be made thereto without departing from the scope of the invention as set forth in the following claims.

What is claimed is:

1. A training device for golfers comprising the combination of a golf tee and a lenticular member, said lenticular member including a first sheet of transparent material having upper and lower surfaces, said upper surface including a multiplicity of parallel semi-cylindrical lenticular ridges forming lens elements, a second sheet having upper and lower surfaces disposed under said first sheet, the upper surface of said second sheet having thereon an elongated indicia design formed by a series of parallel segments in the forms of fine complementary lineations, the lower and upper surfaces of said first and second sheets, respectively, being in face to face contact so that said design may be viewed through the upper surface of said first sheet, the characteristics of said lens elements and the arrangement of said lineations relative to said lens elements being such that when said lenticular member is positioned adjacent a golf ball being addressed by a golfer, said design may be viewed by said

golfer and will appear to said golfer to move in first and second opposite directions upon movement of said golfer's head from one side to the other, respectively, and an aperture extending through said first and second sheets, the size of said aperture being such that said golf tee may be passed therethrough whereby said lenticular member and tee may be simultaneously positioned for use by a golfer.

2. The device of claim 1 wherein said first and second sheets are triangular in shape and wherein said indicia design extends from one apex of said triangular shaped second sheet towards the side of said second sheet opposite to said apex.

3. The device of claim 2 wherein said design is formed in the shape of an arrow, and said second sheet has indicia thereon providing a reference point for said arrow to indicate to the user the degree of movement of the head of the user.

4. The device of claim 3 wherein the last mentioned indicia is in the form of a numeral or a plurality of numerals.

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GEORGE J. MARLO, Primary Examiner

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