This invention relates to wind and rain screens for ensuring clear vision when travelling against the wind and rain and is particularly suitable for motorcyclists.

According to this invention I provide a pair of goggles comprising a frame and one or more rotatable transparent members adapted to rotate in front of the field of vision, each of said members being provided with vanes and any rain which by they are caused to rotate by means of a current of air directed thereon.

Two forms of the invention as applied to motorcyclist’s goggles is illustrated in the accompanying drawings, wherein—

Fig. 1 is a front elevation;
Fig. 2 is a side elevation of the screen shown in Fig. 1, and
Fig. 3 is a detail view.

Figs. 4 and 5 show a modified form of the invention. Fig. 4 is a front view in perspective of a pair of goggles adapted to receive a rotatable disc shown in Fig. 5.

Referring to the drawings, the device comprises a transparent rotatable disc 1 having a plurality of vanes 2 at the periphery thereof, the said disc being mounted at its centre at the lower end of a vertical support 3 the ends of which are bent horizontally as indicated at 4 and 5. The vertical support is secured to a transparent frame 6 the inner edge of which is shaped to fit the face of the wearer the lower edge of the frame being shaped to form a bridge piece 7 for the nose. The inner peripheral edge of the frame 6 is provided with a strip of sponge rubber 16 set to the frame so as the provision additional comfort for the wearer. A pair of straps 8 are attached to the frame 6 for the purpose of securing the device to the head of the wearer.

The disc 1 is arranged so as to rotate on a spindle 9 which is located between the vertical support 3 and a vertical disc 10 the disc 10 being secured to the support 3 by screws 11. The spindle 9 runs on ball bearings 12.

In use, the motor cyclist puts on the goggles and the movement of the wind against the vanes causes the disc to rotate and any rain which would otherwise collect on the goggles is thrown off by centrifugal force so that clear vision is ensured through the rotating disc.

The construction illustrated in Figs. 4 and 5 shows a modification of the invention where the rotatable disc is formed as a separate removable member and is applied to a pair of goggles adapted to receive it.

Referring to Fig. 4 a pair of motoring goggles is made of transparent material and moulded in one piece. The goggles comprise a front portion 14 and a side portion 15, the side portion being flanged at 16 to provide a comfortable bearing surface for the face of the wearer. The front portion 14 is provided with a recess 17 which is adapted to receive the mounting of the rotatable disc shown in Fig. 5. The recess 17 is provided with a groove 18 at the base thereof and a notch 19. The side portion 15 is provided with ventilator holes 20 which are shown in the drawing as transverse slits but they can take any convenient form. A strip of sponge rubber or felt may be stuck or stitched to the surface which bears against the face.

Fig. 5 is a rear view in perspective of the separate rotatable disc 1 which is mounted for rotation on a hub or block 21 which is provided with an aperture 22 adapted to receive the rotating axle 23 and ball race 24. The hub 21 is cut away as shown at 25 so as to provide a projecting shoulder 26. A spring 27 is arranged on the hub 21 and has a projecting part 28.

In use, the motor cyclist before starting off puts on the goggles shown in Fig. 4 which being made of transparent material throughout provides an effective protection against the wind and also ensures clear vision. When the rain comes on, the disc shown in Fig. 5 can be readily attached to the goggles. The hub 21 is slid into the recess 17 so that the shoulder 26 engages the groove 18 and the projection 23 on the spring 27 is sprung into the notch 19 to retain the two parts together. When desired the disc can be removed from the goggles by releasing the spring 27 and pulling the hub 21 upwards.

In a further modification the disc may be replaced by two small discs, one for each eye, each of said discs being mounted on a pin projecting from the frame.

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

1. A pair of goggles comprising a frame and a rotatable transparent member adapted to rotate in front of the field of vision, said member being provided with vanes whereby the said member is caused to rotate by means of a current of air directed thereon.

2. A pair of goggles according to claim 1 wherein the rotatable transparent member comprises a disc provided with peripheral vanes for rotating the said disc.

3. A pair of goggles according to claim 1 wherein a separate mounting is provided for the rotat-
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Able transparent member, means being provided for removably securing the said mounting to the goggles.

4. A pair of goggles comprising a frame, a rotatable disc mounted on the frame and vanes provided on the periphery of the disc, whereby the said disc is caused to rotate by means of a current of air directed thereon, the said frame being formed of transparent material and moulded in one piece so as to provide a front portion adapted to shield the eyes and a side portion, the front portion being provided with a recess adapted to receive the mounting of the rotatable disc.

5. A pair of goggles comprising a frame, a rotatable disc mounted on the frame and vanes provided on the periphery of the disc, whereby the said disc is caused to rotate by means of a current of air directed thereon, the said frame being formed of transparent material and moulded in one piece so as to provide a front portion adapted to shield the eyes and a side portion, the front portion being provided with a recess adapted to receive the mounting of the rotatable disc.

6. A pair of goggles comprising a frame, a rotatable disc mounted on the frame and vanes provided on the periphery of the disc, whereby the said disc is caused to rotate by means of a current of air directed thereon, the said frame being formed of transparent material and moulded in one piece so as to provide a front portion adapted to shield the eyes and a side portion, the front portion being provided with a recess adapted to receive the mounting of the rotatable disc, the said frame being provided with apertures at the side thereof to provide ventilation.

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