F. WILLSON & N. BOURQUIN.

GOGGLES.

APPLICATION FILED AUG. 26, 1913.

1,151,641. Patented Aug. 31, 1915.

Fig. 1.

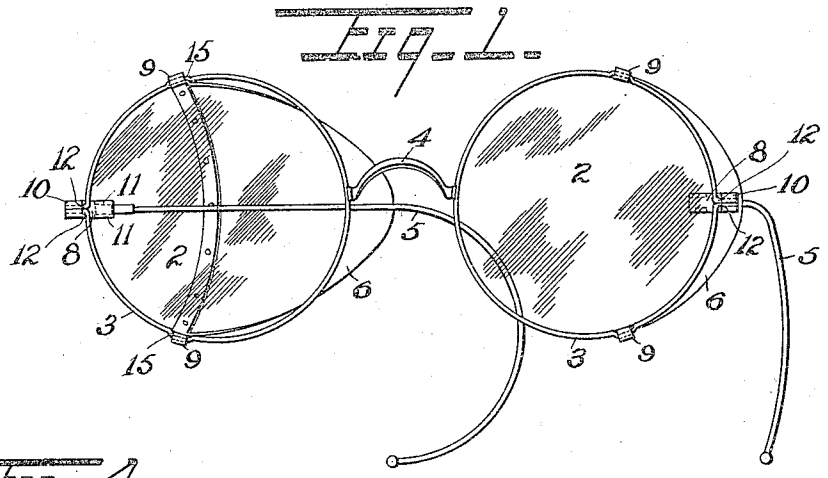


Fig. 4.

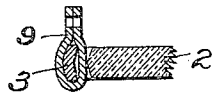


Fig. 2.

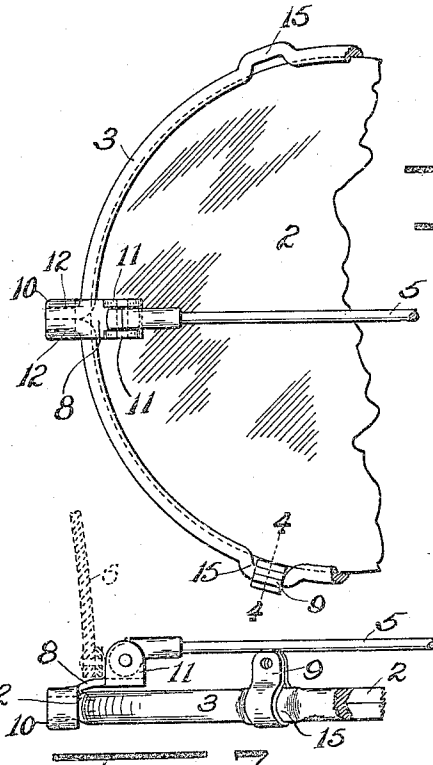


Fig. 5.

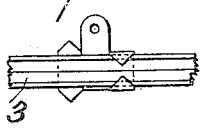


Fig. 6.

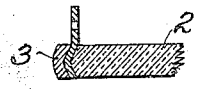


Fig. 3.

Witnesses
Caleb J. Prebor
E. Carroll Schaffer

Inventors
Frederick Willson
and Numa Bourquin

By

Attorney

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FREDERICK WILLSON AND NUMA BOURQUIN, OF READING, PENNSYLVANIA, ASSIGNORS TO T. A. WILLSON & CO., INC., OF READING, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

GOGGLES.

1,151,641. Specification of Letters Patent. Patented Aug. 31, 1915.

Application filed August 26, 1913. Serial No. 786,663.

To all whom it may concern:

Be it known that we, FREDERICK WILLSON and NUMA BOURQUIN, both citizens of the United States, residing at Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Goggles, of which the following is a specification.

Our invention relates particularly to goggles having folding eye-shields and temples, and consists in the improved means provided for attaching the shields and temples to the lens framing as fully described in connection with the accompanying drawing, the novel features being specifically pointed out in the claims.

Figure 1 is an outside-face view of a pair of goggles embodying our invention in preferred form, the temples and shields being shown in different positions. Fig. 2 is an enlarged inside-face view of a portion of one of the lens framings with our fittings secured thereto; Fig. 3 a corresponding edge view; and Fig. 4 a cross-sectional view on the line 4—4 of Fig. 2. Figs 5 and 6 show modified forms of shield pivot ear secured to a lens framing.

The lenses 2, 2, as shown, are of large size as required for goggles, and are framed by ordinary eye wires 3, 3 connected by a bridge 4; and the spectacle temples 5, 5, and eye-shields 6, are pivotally connected to the eye-wires by means respectively of temple-joint pieces, and eye-shield pivot ears, formed and secured to the eye wires as hereinafter described. Each temple-joint or end piece is formed, as indicated, from a punched blank of sheet metal which is provided at its outer end with downwardly turned clamping ears 10, and at its inner end with upwardly turned apertured pivot-ears 11; the intermediate neck portion 8 connecting these end portions. As shown the eye wires 3 are formed with outwardly bent abutting ends 12, 12, as in the T. A. Willson Patents Nos. 452,008 and 452,009 issued May 12, 1891, and the clamping ears 10 are similarly bent around the abutting ends 12 so as to simultaneously grip the lens and rigidly connect the temple-joint piece. In our present construction however these clamping ears are at the outer end of the temple-joint piece and are turned downward over the eye wired ends, while the temple-joint ears 11 are extended inward over the face of the lens and are turned in reverse direction to the clamping ears 10, so as to form a temple connection located within the marginal edge and above the turned face of the lens. The eye-shield pivot ears 9, 9, are also formed of sheet metal and secured to eye-wire 3 by clamping. This is preferably done, as shown, by pressing recesses 15, 15 in the eye-wires, at opposite properly spaced points for the location of the pivot ears; and by then clamping the bent-up sheet metal ear-pieces to the recessed portions of the eye wire, with the apertured pivot portions projecting above the inner face of the lens as shown. Each eye-shield 6 is pivoted at its ends to the shield pivot ears 9, 9, and its curved base-edge is adapted to seat upon the flat neck portion 8 of the overlying temple joint piece and inclose the upwardly turned temple pivot ears 11 and the connected temple 5; thus leaving exposed only the clamping ear portion 10 of the temple joint piece, when the shield is in normal position. In the modified construction indicated in Fig. 5 this recessing of the eye wires is dispensed with, the sheet metal blank employed being provided with four clamping ears which rigidly engage the eye wire; while the Fig. 6 construction shows a sheet metal pivot ear piece which is grooved to correspond with the grooving of the eye wire and firmly clamped between the latter and the edge of the lens.

What we claim is:—

1. The combination with a lens and framing therefor, of a sheet metal temple-joint piece clamped to said framing and having an overlying inward extension provided with pivot ears.

2. The combination with a lens and a framing therefor having outwardly-bent meeting ends, of a sheet-metal temple-joint piece having clamping ears for said meeting ends and an overlying inward extension provided with temple-joint ears.

3. The combination with a lens and fram-

ing therefor, of a temple-joint piece secured to said framing and having an overlying pivot-ear extension, oppositely arranged eye-shield pivot ears secured to said framing, and a pivoted eye shield arranged to inclose the temple pivot ears.

4. The combination with an eye-wire framing having opposite clamping-recesses formed therein, of separate sheet-metal eye-shield pivot ears clamped to said recessed portion of the framing.

In testimony whereof we affix our signatures in presence of two witnesses.

FREDERICK WILLSON.
NUMA BOURQUIN.

Witnesses:
ADAM L. OTTERBEIN,
W. G. STEWART.

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