

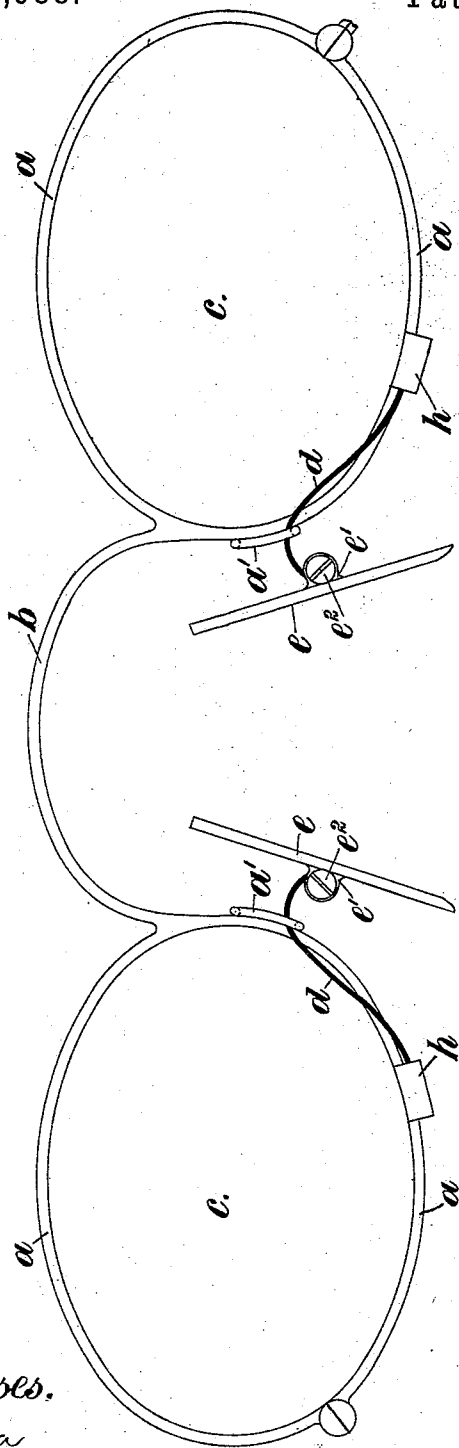
(No Model.)

J. J. WOOD.
DOUBLE EYEGLASSES.

No. 529,988.

Patented Nov. 27, 1894.

Fig. 1.



Witnesses.
G. W. Rea
Thos. A. Green

Fig. 3.

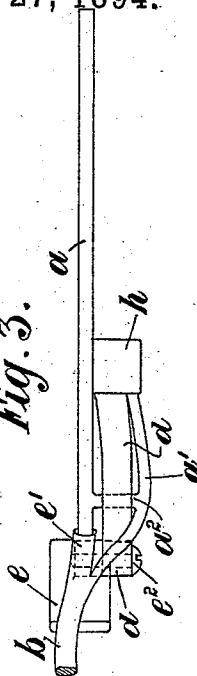
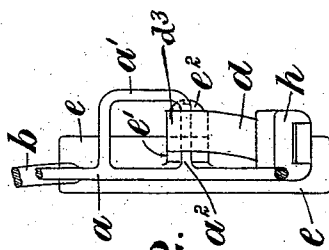


Fig. 2.



Inventor.
John James Wood
By James L. Norris
Atty.

UNITED STATES PATENT OFFICE.

JOHN JAMES WOOD, OF LIVERPOOL, ENGLAND.

DOUBLE EYEGLASSES.

SPECIFICATION forming part of Letters Patent No. 529,988, dated November 27, 1894.

Application filed June 25, 1894. Serial No. 515,636. (No model.) Patented in England April 22, 1893, No. 8,124.

To all whom it may concern:

Be it known that I, JOHN JAMES WOOD, a subject of the Queen of Great Britain and Ireland, residing at Liverpool, in the county of Lancaster, England, have invented new and useful Improvements in Double Eyeglasses, (for which I have obtained a patent in Great Britain, No. 8,124, bearing date April 22, 1893,) of which the following is a specification.

This invention is an improvement on the eye-glasses described in Letters Patent No. 470,029, granted to me March 1, 1892, and has reference to pince-nez or double eye-glasses in which the centers of the glasses are so fixed that once a wearer or user of such glasses has obtained a pair with centers corresponding with the centers of his eyes, that is, with the distance apart thereof, his eyes will be always coincident with the centers of the glasses, and will always look through the centers of them, no matter what part of the nose they are fixed upon.

The chief objects of my invention are to provide devices for gripping the nose which shall effectively support the eye-glasses or pince-nez thereon, that is support it firmly, and at the same time comfortably; and also, at the same time, to provide suitable elasticity in the gripping bearer supports, and so construct or arrange the parts of the glass or frame that they may be slid into and drawn out of a case, or the pocket easily, and without being so liable to catch in the pocket or case, and become strained or broken, and withstand considerable rough usage.

According to this invention, I combine with eye-glasses having a rigid or firm bridge and fixed centers, arms consisting of springs or having a spring in connection with them, adapted to normally press the nose guards or gripping devices toward and onto the nose. The gripping bearers are mounted by preference by a hinge, pivot, or equivalent loose joint, or carrying support, on the arms, through which said bearers may move or swivel about on said arms; or, one only of said gripping bearers may be loose upon its joint and free to swivel thereon, the other being fixed, after being fitted or adjusted to the wearer's nose; or, as a modification both

gripping bearers would be fixed, in which case the springs would be light to give the desired elasticity to allow of movement of the bearers upon the point of their supports.

To render the glasses or pince-nez capable of being easily slipped into the pocket or case, or drawn out therefrom, and without being so liable to catch and become strained, I provide a guard bar or loop, or duplex frame, at about the parts where the gripping bearers are mounted on the arms, through which said arms pass. These loops also form stops to the arms, and limit their movement.

In the drawings illustrating this invention, Figure 1 is an elevation showing a pince-nez or double eye-glass having improvements under this invention; and Fig. 2 is an end view in section of same. Fig. 3 is a plan showing a modified form of protecting bar, shield, or provision, according to this invention.

The same letters of reference are used to denote the same or like parts wherever they occur in the different figures of the drawings.

Referring in the first instance to Figs. 1 and 2, *a* are the glass frames, *b* is a rigid or practically rigid bridge connecting said frames together, and *c* are the glasses.

d are the arms consisting of thin flat springs; and *e* are gripping bearers mounted on the ends of the arms *d*, and at about their central points. Each of the arms *d* is fixed at its base to the frames *a*, and has a normal tendency to move outward from the frame. The gripping bearers, as stated, are hinged on the extremities of the arms *d*, the hinges consisting of bosses *d*³, and bosses *e*¹ on the backs, and about the central point of the gripping bearers *e*, screw pins *e*² being used to connect these two bosses, the threaded ends of said pins screwing into the bosses *e*¹. In cases where it is desired to have one of the gripping bearers *e* fixed, the screw pin *e*² thereof is screwed up tight after the said gripping bearer has been set to the inclination of the wearer's nose, which inclination is formed by fitting the glasses on the nose while the bearers are loose; or, in some cases where desired the mounting of the bearers in the spring arms *d* may be by a simple fixed fastening of any known kind, the adjustment of the gripping

bearers to the angle required to suit the nose being effected by bending the arms, say at their free ends.

5 The means according to this invention by which the spring arms d are shielded or protected against being injured, *i. e.*, bent out of position or broken by rough usage, as when
10 caught in the pocket or case, in being pulled out or pushed in, or, under like circumstances, consists of a bar a' on the frame a , carried round or about the upper end of the spring arms d , forming a loop through which the
15 arms pass, the lower part of the bar a^2 serving as a stop to limit the outward movement of said arm. In the modification shown in Fig. 3, the shielding or protecting means consists of a bar a' on the inner side of the spring arms d , said bar a' being connected at its
20 lower end to the block h , to which the spring arm d is fixed, and at the top to the bridge b . A bar a^2 is provided midway between the frame bars a and a' —to which it is fixed—to

limit the outward movement of the springs d , and to serve as a stop thereto, the arms d passing between the frame bars a and a' above 25 said bar a^2 , as shown.

What I claim in respect of this invention is—

The combination with a spring arm d attached to an eye-glass or its frame and adapted 30 to press outward, and a gripping bearer e mounted on said spring arm, of a bar extended from the frame or glass and around the outside of said spring arm to shield and protect the arm, substantially as described.

35 In testimony whereof I hereunto affix my signature in presence of two witnesses.

JOHN JAMES WOOD.

Witnesses:

R. ALFRED HAMMPSON,
Notary Public, Liverpool.

JOHN H. WALKER,
Liverpool.