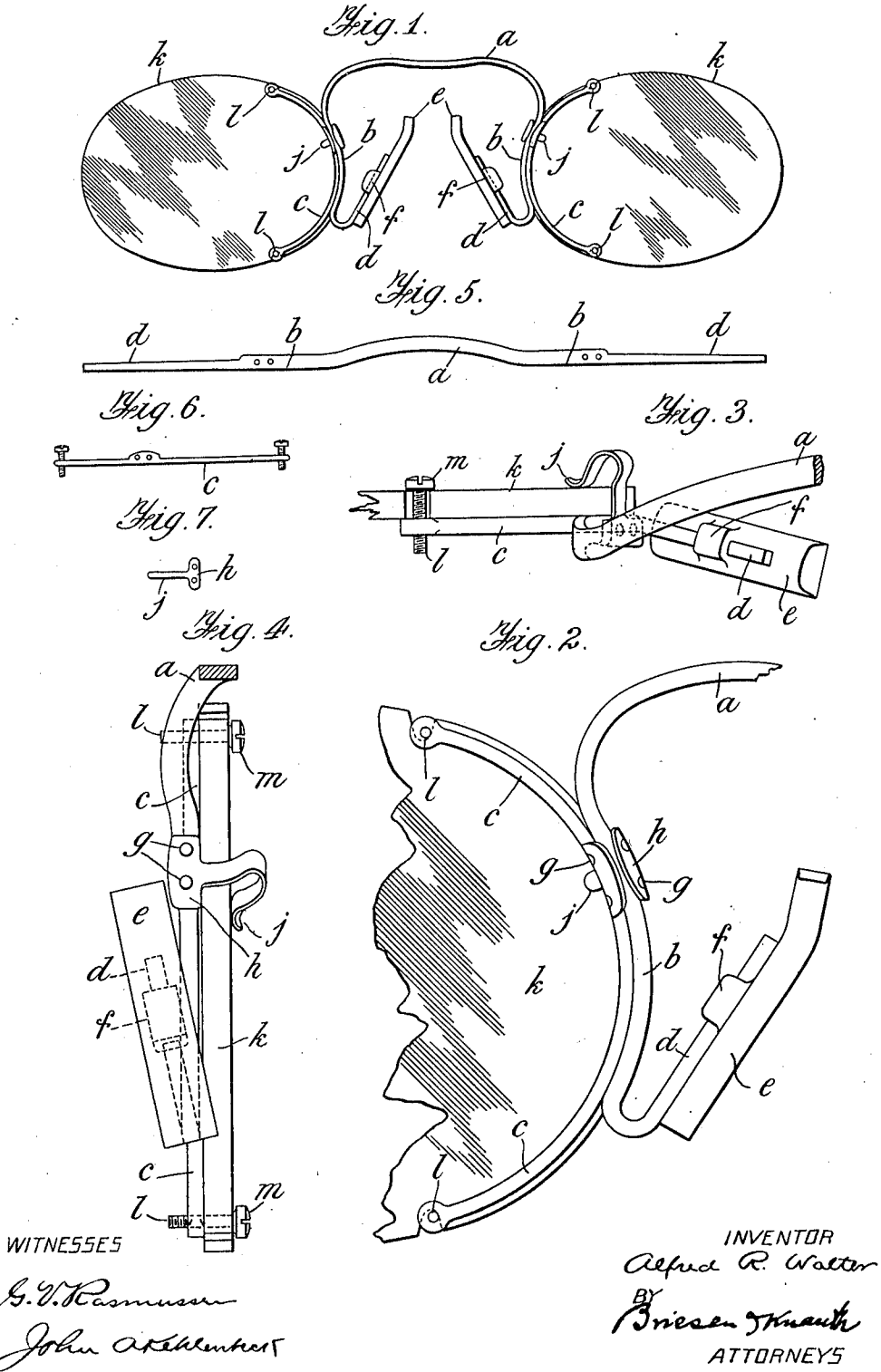


1,020,585.

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UNITED STATES PATENT OFFICE.

ALFRED RICHARD WALTER, OF EALING, LONDON, ENGLAND.

PINCE-NEZ.

1,020,585.

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To all whom it may concern:

Be it known that I, ALFRED RICHARD WALTER, a subject of the King of Great Britain, and resident of 2 Fordhook avenue, Ealing, London, England, optician, have invented certain new and useful Improvements in Pince-Nez, of which the following is a specification.

This invention relates to improvements in mounts for pince-nez of the so-called frameless type, of the kind wherein the lenses are connected to the bridge and plackets by means of lens-carriers each consisting of a pair of oppositely directed spring-arms integral with the bridge and curved to extend around the inner end of the corresponding lens at the rear side thereof; each carrier being secured to its lens by means of claws situated at and between the extremities of the arms and adapted to clip over the edge of the lens, the end claws being sprung into engagement with notches in the periphery of the lens.

The main objects of the present invention are to simplify the construction of mounts of this kind, to enable soldering to be dispensed with for securing the various parts together, and to permit of lenses of different thickness being accommodated alternatively in the same mount with a minimum of trouble.

To these ends the mount of the present invention embodies the following improvements. The bridge and the placket-holders are all formed from a single length of wire suitably bent, the plackets themselves being of what may be called the "slipper" type wherein each has an eye at the back to receive the upwardly bent end of the wire by which it is supported. Each lens-carrier is formed from a separate length of wire secured to the bridge-wire by means of rivets, while the middle claw for holding the lens consists of a separate piece fixed to the lens-carrier by the same rivets which serve to secure the lens-carrier itself to the bridge-wire. The claws at the extremities of each lens-carrier are readily adjustable to suit the thickness of the lens, each claw consisting of a headed pin adapted to engage in the corresponding notch in the periphery of the lens and screw-threaded to pass through a tapped hole provided in the lens-carrier so as to permit of the head of the screw being made to bear against the surface of the lens.

In the accompanying drawings, Figure 1

is a general view of a pair of pince-nez with the improved mount in its preferred form, as seen from the rear. Fig. 2 is an enlarged detail view of the left-hand lens with its carrier, placket, and the corresponding portion of the bridge, also as seen from the rear. Fig. 3 is a plan view, and Fig. 4 an inside end elevation of the same parts. Fig. 5 shows the bridge-wire in the flat, *i. e.* before being bent to its final form. Fig. 6 is a similar view of one of the lens-carriers, and Fig. 7 is a separate view of one of the middle claws of the lens-carrier, also in the flat.

As will be seen on comparing Fig. 5 with Fig. 1, and with Figs. 2 and 4, a single length of spring-wire serves to constitute the bridge and the two placket-holders, this wire being suitably bent, flattened out, and pierced where necessary. The middle portion *a* of the wire forms the bridge, while the adjacent portion *b* toward each end is bent downwardly and so curved as to be adapted to lie in contact with the bow of the corresponding lens-carrier *c*. The extremities of the wire are upwardly bent to constitute horns *d* capable of receiving the plackets *e* each of which is provided at the back with a projection *f* pierced by an opening to form a socket or eye through which the upwardly extending extremity *d* of the wire is passed, the wire being slightly tapered or bent so as to become securely wedged in the socket when thrust therethrough. The two plackets *e, e* converge upwardly, and are virtually spring-mounted in consequence of the elasticity of the wire-ends *d, d* which carry them.

Those portions *b, b* of the bridge-wire which lie in contact with the bows of the respective lens-carriers *c* are riveted to the latter, the rivets *g* which secure each carrier to the bridge-wire serving also to fix thereto the base *h* of the corresponding claw *j* which is intermediate of the end claws with which each lens-carrier is furnished. Inasmuch as the carrier is placed at the rear side of the lens *k*, this middle claw *j* is so bent as to clip over the front of the lens and hold the same against the carrier, the claw itself extending obliquely with reference to the general plane of the lens so that the edge of the latter, whatever its thickness, will become wedged between the carrier *c* and the claw *j*.

Each lens-carrier constitutes what may be called a semi-rim for the corresponding lens,

and is formed (see Fig. 6) of a length of spring-wire suitably curved, and flattened out at or about the middle of its length to receive the holes for the rivets *g* whereby it
5 is secured to the bridge-wire and the base *h* of the claw *j* just described.

The claws at the extremities of each lens-carrier *c* are constituted by headed pins *l* which are screw-threaded to pass adjustably
10 through tapped holes in the carrier in position to engage the notches in the periphery of the lens *k*, each pin *l* extending at right angles to the general plane of the lens so that the head *m* of the pin can be caused to
15 engage with the outer surface of the lens in such manner as to hold the latter against the carrier, whatever the thickness of the lens, by simply screwing the pin *l* more or less through its hole in the carrier.

20 Claims:

25 1. In pince-nez of the kind referred to, the combination of a bridge, a lens-carrier on said bridge, a lens carried by said lens-carrier, a separate claw located intermediate of the ends of said lens-carrier and arranged to exert pressure on one face of said lens, and fastening means common to said bridge, lens-carrier and claw for securing these elements together.

2. In pince-nez of the kind referred to, the combination of a bridge, a lens-carrier on said bridge, a lens, and adjustable claws located at the extremities of said lens-carrier and each comprising a screw-threaded pin arranged to screw into said lens-carrier and
30 provided with a head adapted to bear against said lens.

3. In pince-nez of the kind referred to, the combination of a bridge, a lens, a lens-carrier on said bridge and located entirely
40 within the periphery of said lens and clamping means on said lens-carrier for exerting a pressure on the one face of said lens toward said lens-carrier.

4. In pince-nez of the kind referred to, the combination of a bridge, a lens-carrier on said bridge, a lens, clamping means movably mounted on said carrier adjacent to each end thereof for securing lenses of different thickness on said carrier and resilient
50 means located on said carrier intermediate of said clamping means and engaging said lens.

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Witnesses:

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