CLAIMS

1. A modular eyewear comprising:

two lenses (10), each lens (10) having a noncircular connection hole (12) defined through the lens (10); and

a connection device (20) mounted between and connected to the connection holes (12) in the lenses (10) to connect the lenses (10) with each other and comprising

a bridge (22) being M-shaped and having two ends;

two plugs (24) mounted respectively around the ends of the bridge (22) and mounted respectively in the connection holes (12) in the lenses (10);

two sleeves (26) mounted respectively in the connection holes (12) in the lenses (20) and abutting respectively on the plugs (24); and

two lens screws (28) mounted respectively through the sleeves (26) and screwed respectively with the plugs (24), wherein each lens screw (28) comprises

a head (282) being cylindrical and having a first end, a second end and an engaging recess (284) formed around the head (282) to form a neck on the head;

a tab (283) formed on and protruding from the first end of the head (282); and

a threaded rod (286) formed on and protruding from the second end of the head (282), extending through a corresponding one of the sleeves (26), and screwed with the threaded hole (243) in a corresponding one of

the plugs (24).

2. The eyewear as claimed in claim 1, wherein

the connection hole (12) in each lens (10) comprises

a round hole (122) having an inner surface and a diameter; and

two engaging segments (124) formed in the inner surface of the round hole (122), and each engaging segment (124) extending toward a direction that is diametrically opposite to the direction of the other engaging segment (124); and

each plug (24) is metal and comprises

an inserting body (242) mounted in the round hole (122) of a corresponding one of the connection holes (12) and having a threaded hole (243) defined in the inserting body (242) and screwed with a corresponding one of the lens screws (28); and

two engaging ribs (244) protruding from the inserting body (242) and mounted respectively in the engaging segments (124) of the corresponding connection hole (12).

3. The eyewear as claimed in claim 2, wherein the inserting body (242) of each plug (24) has an enlarged end exposed out from the corresponding connection hole (12).

~~4. The eyewear as claimed in any one of claims 1 to 3, wherein each lens screw (28) comprises~~

~~a head (282) being cylindrical and having a first end, a second end and an engaging recess (284) formed around the head (282) to form a neck on the head;~~

~~a tab (283) formed on and protruding from the first end of the head (282);~~ and

~~a threaded rod (286) formed on and protruding from the second end of the head (282), extending through a corresponding one of the sleeves (26), and screwed with the threaded hole (243) in a corresponding one of the plugs (24).~~

~~5~~4. The eyewear as claimed in any one of claims 1 to 3 further comprising

a pad frame (95) being inverted U-shaped, connected to the bridge (22) and having two ends;

two pad mounts (96) respectively around the ends of the pad frame (95), and each pad mount (96) having

a coil segment (962) mounted securely around a corresponding end of the pad mount (96), wherein the coil segments (962) of the pad mounts (96) respectively have a spiral direction opposite to each other; and

a pad bracket (964) being rectangular and formed on one end of the coil segment (962); and

two nose pads (98) connected respectively with the pad mounts (96), and each nose pad (98) having

a securing block (982) mounted loosely around by the pad bracket (964) of a corresponding one of the pad mounts (96); and

a connecting hole (984) formed through the securing block (982) and into which a corresponding end of the pad frame (95) extends.

~~6~~5. A method for manufacturing a modular eyewear comprising acts of:

forming two round holes (122) respectively in two lenses (10) by a drilling device (30);

forming two engaging segments (124) in an inner surface of the round hole (122) of each lens (10) by a cutting device (40) with a cutter (50) to form a noncircular connection hole (12) in each lens (10);

attaching two plugs (24) onto an M-shaped bridge (22);

aligning the plugs (24) respectively with the connection holes (12) in the lenses (10) and pulling the plugs (24) to extend respectively into the connection holes (12) by a pulling device (60);

putting two sleeves (26) respectively into the round holes (122) of the connection holes (12); and

extending two lens screws (28) respectively through the sleeves (26) and screwing the lens screws (28) respectively with the plugs (24), wherein in the act of forming two round holes (122) in two lenses (10) by a drilling device (30), a two-stage process is implemented to each lens (10) for forming the round hole (122) on the lens (10) and comprises acts of:

drawing an alignment line on the lens (10) and drawing an alignment line on a table (32) of the drilling device (30) and aligning with a drill bit (34) of the drilling device (30);

putting the lens (10) on the table (32) of the drilling device (30) and

aligning the alignment line on the lens (10) with the alignment line on the table (32);

moving a clamping base (36) downward to clamp one end of the lens (10) between the clamping base (36) and the table (32), wherein the clamping base (36) is moveably mounted on the table (32) and has

a clamping segment (362) in a semi-circular section;

an alignment hole formed through the clamping segment (362); and

a drill bush (364) co-axially mounted in the alignment hole and into which the drill bit (34) extends;

moving the drill bit (34) downward and extending through the drill bush (364) to drill a blind hole in the lens (10), wherein the blind hole is kept from forming through the lens (10);

moving the drill bit (34) upward to a position and moving the clamping base (36) upward to leave the position where the clamping base (36) clamps the lens (10);

moving the lens (10) away from the table (32);

pivoting a pivotal arm (38) that is pivotally mounted on the table (32) to align a location pin (382) mounted on the pivotal arm (38) with the drill bush (364) on the clamping base (36);

moving the clamping base (36) downward until the location pin (382) is exposed out of the drill bush (364) from a bottom to a top of the clamping base (36);

turning the lens (10) upside down to put the blind hole in the lens

(10) to mount around the location pin (382) exposed out of the drill bush (364); and

moving the drill bit (34) downward to form the blind hole through the lens (10) so as to form the round hole (122) in the lens (10).

~~7. The method as claimed in claim 6, wherein in the act of forming two round holes (122) in two lenses (10) by a drilling device (30), a two-stage process is implemented to each lens (10) for forming the round hole (122) on the lens (10) and comprises acts of:~~

~~drawing an alignment line on the lens (10) and drawing an alignment line on a table (32) of the drilling device (30) and aligning with a drill bit (34) of the drilling device (30);~~

~~putting the lens (10) on the table (32) of the drilling device (30) and aligning the alignment line on the lens (10) with the alignment line on the table (32);~~

~~moving a clamping base (36) downward to clamp one end of the lens (10) between the clamping base (36) and the table (32), wherein the clamping base (36) is moveably mounted on the table (32) and has~~

~~a clamping segment (362) in a semi-circular section;~~

~~an alignment hole formed through the clamping segment (362);~~ and

~~a drill bush (364) co-axially mounted in the alignment hole and into which the drill bit (34) extends;~~

~~moving the drill bit (34) downward and extending through the drill bush~~

~~(364) to drill a blind hole in the lens (10), wherein the blind hole is kept from forming through the lens (10);~~

~~moving the drill bit (34) upward to a position and moving the clamping base (36) upward to leave the position where the clamping base (36) clamps the lens (10);~~

~~moving the lens (10) away from the table (32);~~

~~pivoting a pivotal arm (38) that is pivotally mounted on the table (32) to align a location pin (382) mounted on the pivotal arm (38) with the drill bush (364) on the clamping base (36);~~

~~moving the clamping base (36) downward until the location pin (382) is exposed out of the drill bush (364) from a bottom to a top of the clamping base (36);~~

~~turning the lens (10) upside down to put the blind hole in the lens (10) to mount around the location pin (382) exposed out of the drill bush (364); and~~

~~moving the drill bit (34) downward to form the blind hole through the lens (10) so as to form the round hole (122) in the lens (10).~~

~~8~~6. The method as claimed in claim ~~7~~ 5, wherein the blind hole in each lens (10) has a depth being half of a thickness of the lens (10).

~~9~~7. The method as claimed in ~~any one of claims 6 to 8~~ claim 5 or claim 6, wherein the act of forming two engaging segments (124) in the round hole (122) of each lens (10) by a cutting device (40) with a cutter (50) comprises acts of:

putting the lens (10) on a table (42) of the cutting device (40) and aligning the round hole (122) in the lens (10) with the cutter (50), wherein the cutter (50) comprises a cylindrical rod (52) and two sets of cutting teeth (54) formed longitudinally on an outer surface of the cylindrical rod (52), each set of cutting teeth (54) having flat cutting edges (542) and lengths gradually increasing from a bottommost tooth to a topmost tooth (54) of the set of cutting teeth (54), and each cutting tooth has a width same as a width of a corresponding one of the engaging segments (124) formed in the lens (10); and

moving the cutter (50) downward to insert the cutter (50) into the round hole (122) and cutting the inner surface of the round hole (122) away by the two sets of cutting teeth (54) to form the two engaging segments (124) in the lens (10).