

EYEGLOSS COMBINATION HAVING AUXILIARY FRAME

The present invention relates to a pair of eyeglasses having an auxiliary frame for supporting auxiliary lenses.

05 The closest prior art of which applicant is aware is US Patent 5,568,207, in which the primary frame are required to be engaged with magnets for actuating with the magnets engaged in the auxiliary frame, such that the auxiliary frame may not be attached to typical
10 spectacle frame having no magnets therein.

The invention is to provide an auxiliary frame for attaching typical spectacle frame having no magnets therein.

The invention is further to provide a primary
15 frame and an auxiliary frame having magnets disposed laterally.

FIG. 1 is an exploded view of an eyeglass combination having an auxiliary frame;

FIG. 2 is a perspective view of the eyeglass
20 combination; and

FIG. 3 is a cross sectional view taken along lines 3-3 of FIG. 2.

Referring to FIGS. 1 and 2, an eyeglass combination comprises a primary frame 10 for supporting
25 primary lenses 90 and including a bridge 11 formed in the middle and including two studs 12 formed in the side portions. The bridge 11 and the studs 12 each

includes a magnet 14 disposed laterally having a pole (such as S as shown in FIG. 3) arranged in front of the other (N in FIG. 3).

05 An auxiliary frame 20 for supporting auxiliary lenses 91 and for disposing in front of the primary frame includes a bridge 21 and two extensions 22 disposed in the side portions and extended rearward for engaging over the bridge 11 and the studs 12 of the primary frame 10 respectively. The bridge 21 includes
10 an arm 24 extended rearward. The extensions 22 and the arm 24 each includes a rear end having a flange 23, 25 dependent downward. The flanges 23, 25 each includes a magnet 26 disposed laterally having a pole (S in FIG. 3) arranged in front of the other (N in FIG. 3) for
15 allowing the S pole to engage with the N pole of the magnet 14 of the primary frame 10.

It is to be noted that the flanges 23, 25 of the extensions 22 and of the arm 24 are extended downward for engaging with the studs 12 and the bridge 11 such
20 that the flanges 23, 25 themselves form a hook means for securing the auxiliary frame 20 to the primary frame 10. In addition, the magnets 14, 26 are disposed laterally such that the flanges 23, 25 may further be stably and solidly attracted and retained in place.

25 It is further to be noted that the flanges 23, 25 may also be used to hook to the typical eyeglasses having no magnets engaged therein, such that the

auxiliary frame 20 may be attached to any of the typical eyeglasses. Particularly, when the typical eyeglasses are made of metal or other magnetic materials, the magnets 26 of the auxiliary frame 20 may
05 also be used for attracting the typical eyeglasses and may also be used for solidly securing the auxiliary frame to the typical eyeglasses.

It is also to be noted that with only the arm 24 and the magnet 26 therein, the auxiliary frame 20 may
10 also be solidly secured to the primary frame 10. Without the arm 24 and without the magnets 26, the auxiliary frame 20 may also be secured to the primary frame 10 by engaging the flanges 23 with the studs 12. The provision of the magnets 26 and 14 may further
15 solidly secure the auxiliary frame 20 to the primary frame 10.

Accordingly, the eyeglass combination includes an auxiliary frame having a pair of extensions and/or an arm for engaging with the studs and/or the bridge of
20 the primary frame, for allowing the auxiliary frame to be secured to various kinds of eyeglasses having no magnets therein. In addition, the provision of the flanges 23, 25 may also be used for solidly securing the auxiliary frame to the primary frame 10.

CLAIMS:

1. An eyeglass combination comprising:

a primary frame including a first bridge and including two sides each having a stud, and

05 an auxiliary frame for disposing in front of the primary frame, the auxiliary frame including a second bridge and including two sides each having an extension extended rearward toward the primary frame and extended over the studs, the extensions each including a rear
10 end having a first flange extended downward for engaging with the stud and for securing the auxiliary frame to the primary frame.

2. The eyeglass combination according to claim 1, wherein the studs of the primary frame are made of
15 magnetic material, the first flanges each includes a magnet for engaging with the studs of magnetic material.

3. The eyeglass combination according to claim 1, wherein the studs of the primary frame each includes a
20 first magnet, the first flanges each includes a second magnet for engaging with the first magnet and for securing the auxiliary frame to the primary frame.

4. The eyeglass combination according to claim 3, wherein the first and the second magnets each includes
25 a first pole and a second pole disposed in front of the first pole.

5. The eyeglass combination according to claim 1,



wherein the second bridge includes an arm extended over the first bridge of the primary frame, the arm includes a rear end having a second flange extended downward for engaging with the first bridge and for securing the auxiliary frame to the primary frame.

6. The eyeglass combination according to claim 5, wherein the first bridge of the primary frame includes a first magnet, the second flange includes a second magnet for engaging with the first magnet and for securing the auxiliary frame to the primary frame.

7. An eyeglass combination comprising:
a primary frame including a first bridge, the first bridge including a first magnet, and
an auxiliary frame for disposing in front of the primary frame, the auxiliary frame including a second bridge having an arm extended rearward toward the primary frame and extended over the first bridge, the arm including a rear end having a flange extended downward for engaging with the first bridge and for securing the auxiliary frame to the primary frame, the flange including a second magnet for engaging with the first magnet and for securing the auxiliary frame to the primary frame.

8. An eyeglass combination comprising:
a primary frame including a first bridge and including two sides each having a stud, and
an auxiliary frame for disposing in front of the



primary frame, the auxiliary frame including a second bridge and including two sides each having an extension extended rearward toward the primary frame and extended over the studs, the second bridge including an arm
05 extended rearward, the extensions and the arm each including a rear end having a flange extended downward for engaging with the stud and the first bridge and for securing the auxiliary frame to the primary frame.

9. The eyeglass combination according to claim 8,
10 wherein the studs and the first bridge of the primary frame are made of magnetic material, the flanges each includes a magnet for engaging with the studs and the first bridge of magnetic material and for securing the auxiliary frame to the primary frame.

