Claims

1. An augmented vision system (1) comprising:

a displaying device (3) comprising:

a fixing element (31) for coupling the displaying device (3) to a head-mountable component (90) configured to be positioned in front of a face (102) of a user (100), and

a display body (32) being coupled to said fixing element (31) by means of a pivoting link (321, 322, 323) providing a rotation of the display body (32) with respect to the fixing element (31) around a rotational axis (38);

wherein the display body (32) comprises:

a display (33) configured to display a thermal data and/or a thermal image (331) provided by a thermal sensing device (2); and

a first surface portion (325) configured to enter in contact with a forehead of the user (100), when said head-mountable component (90) is positioned in front of the face (102) of the user (100), so as to rotate the display body (32) to a predefined angular positioning (381) around the rotational axis (38).

2. The augmented vision system according to claim 1, wherein the displaying device (3) comprises an adjusting mechanism (311, 321) providing a relative translation of said first surface portion (325) with respect to the fixing element (31).

3. The augmented vision system according to claim 2, wherein said adjusting mechanism comprises a slide link (311, 321) providing a relative translation of the display body (32) with respect to the fixing element (31) along a translation axis (39) perpendicular to the rotational axis (38).

4. The augmented vision system according to claim 3, wherein the slide link (311, 321) is configured to indicate a plurality of discrete positions along the translation axis (39);

preferably the slide link (311, 321) being configured to retain the display body (32) when positioned at one of said plurality of discrete positions with respect to the fixing element (31).

5. The augmented vision system according to claim 1, the displaying device (3) being configured to rotate the display body (32) for pushing the first surface portion (325) against the forehead of the user (100), when the head-mountable component (90) is positioned in front of the face (102) of the user (100).

6. The augmented vision system according to claim 5, wherein the display body (32) comprises a second surface portion (326) configured to enter in contact with a portion of the fixing element (31) and/or of the head-mountable component (90), when the head-mountable component (90) is positioned in front of the face (102) of the user (100); preferably the display body (32) comprising a resilient portion operating between the first surface portion (325) and the second surface portion (326).

7. The augmented vision system according to claim 3, wherein the displaying device (32) is detachable from the fixing element (31), preferably by means of the slide link (311, 321).

8. The augmented vision system according to claim 1, wherein the fixing element (31) is removably fastened to the head-mountable component (90).

9. The augmented vision system according to claim 8, wherein the fixing element comprises at least a resilient portion configured to provide an elastic force operating on one or more distinct portions of the head-mountable component (90) so as to removably retain the fixing element (31) to the head-mountable component (90).

10. The augmented vision system according to claim 1, wherein the display is a see-through-display (33).

11. The augmented vision system according to claim 1, wherein the thermal sensing device (2) is a head-mountable thermal sensing device (2); preferably the thermal sensing device (2) is configured to provide thermal data and/or thermal images to the display (33) by means of a wireless link (4).

12. The augmented vision system according to claim 1, the thermal sensing device (2) comprising:

a head-mountable base (21);

a sensing body (22) coupled to the base (21) and comprising a thermal camera (221) for sensing temperatures of an object along a sensing orientation (223); and

a camera adjusting mechanism for adjusting an angular positioning (**a**) of the sensing orientation (223) of the thermal camera (221) with respect to the head-mountable base (21), preferably around a rotating axis (24).

13. The augmented vision system according to the claim 16, wherein the thermal camera (22) is detachable coupled to the head-mountable base (21).

14. The augmented vision system according to claim 1, wherein the head-mountable thermal sensing device (2) is fastened to a head-covering (9), preferably by means of the head-mountable base (21).

15. The augmented vision system according to claim 14, wherein the head-mountable component (90) is coupled with the head-covering (9), preferably by means of a resilient element so as to provide an elastic force pushing the head-mountable component (90) against the face (102) of the user (100).

16. The augmented vision system according to claim 14, the head covering (9) being a protective head covering, notably a firefighter helmet (9), a soldier helmet, a policeman helmet, a rescuer helmet, a cyclist helmet or a driver helmet.

17. The augmented vision system according to claim 18, wherein the head-mountable component (90) is an eyewear, a mask, a face shield or a visor (90) of the head covering (9).

18. A method for wearing an augmented vision system, the method comprising steps of: fastening a fixing element (31) of a displaying device (3) to a head-mountable component (90) configured to be positioned in front of a face (102) of a user (100);

rotatably coupling a display body (32) of the displaying device (3) to said fixing element (31); and

rotating the display body (32) around a rotational axis (38) to a given angular position with respect to the fixing element (31) by positioning the head-mountable component (90) in front of the face (102) of the user (100).

19. The method according to claim 18, wherein coupling the display body (32) comprises a step of:

positioning the display body (32) with respect to the fixing element (31) along a translation axis (39) perpendicular to the rotational axis (38) of the display body (32).

20. The method according to claim 18, the method further comprising steps of:

fastening a thermal camera (221) to a head covering (9);

when the head-mountable component (90) is positioned in the front of the face (102) of the user (100), adjusting a sensing orientation (223) of the thermal camera (221) with respect to the head covering (9).