**CLAIMS**

1. A face mask comprising:

a cover shield shaped to cover nose and mouth of a wearer, and defining an inner space between the cover shield and the skin of the wearer;

an input fan coupled to the cover shield, wherein the input fan is configured to draw air from outside into the inner space;

an output fan coupled to the cover shield, wherein the output fan is configured to expel air out of the inner space; and

a light signaling member coupled to at least one of the input fan and the output fan, wherein the light signaling member is arranged to emit light in a direction away from a face of the wearer.

2. The face mask of claim 1, wherein the input fan and the output fan are arranged symmetrically about a vertical centre line of the cover shield.

3. The face mask of claim 1, wherein the input fan is positioned to the cover shield such that the air drawn into the inner space is directed towards at least one of the nose and the mouth of the wearer.

4. The face mask of claim 1, wherein the output fan is positioned to the cover shield such that the output fan draws away air exhaled from at least one of the nose and the mouth of the wearer.

5. The face mask of claim 1, further comprising:

an input air guiding member coupled to the input fan and extending into the inner space, the input air guiding member adapted to direct air flow from the input fan to at least one of the nose and mouth of the wearer; and

an output air guiding member coupled to the output fan and extending into the inner space, the output air guiding member adapted to direct air flow from at least one of the nose and mouth of the wearer to the output fan.

6. The face mask of claim 1, wherein the input fan comprises a filter holder configured to hold a filter element for filtering air drawn into the inner space.

7. The face mask of claim 1, wherein the output fan comprises a filter holder configured to hold a filter element for filtering air exhaled from at least one of the nose and the mouth of the wearer.

8. The face mask of claim 1, wherein the cover shield is impermeable to fluids.

9. The face mask of claim 1, wherein the cover shield is substantially transparent.

10. The face mask of claim 1, wherein the cover shield has an inlet aperture and an outlet aperture formed therein, wherein the input fan is fitted to the inlet aperture, and wherein the output fan is fitted to the outlet aperture.

11. The face mask of claim 1, further comprising:

at least one mounting member in a vicinity to an upper edge of the cover shield, wherein the at least one mounting member is configured to removably affix an eye shield above the cover shield for covering the eyes of the wearer.

12. The face mask of claim 11, further comprising:

the eye shield.

13. The face mask of claim 12, wherein the eye shield is flexible to conform to a shape of the cover shield.

14. The face mask of claim 1, further comprising:

a light emitter arrangement coupled to the cover shield for illuminating the face of the wearer.

15. The face mask of claim 1, further comprising:

a wireless transceiver equipment coupled to the light signalling member, wherein the wireless transceiver equipment is configured to receive data comprising operating instructions,

wherein the light signalling member is configured to operate according to the operating instructions in the received data.

16. The face mask of claim 1, further comprising:

an electrical connector coupled to the light signalling member, wherein the electrical connector is configured to receive data comprising operating instructions,

wherein the light signalling member is configured to operate according to the operating instructions in the received data.

17. The face mask of claim 1, further comprising:

a skin cushion arranged along a periphery of the cover shield, wherein the skin cushion is adapted to abut against the skin of the wearer for sealing the inner space from outside.

18. The face mask of claim 17, wherein the skin cushion comprises a compressible material for conforming to the shape of the face of the wearer.

19. The face mask of claim 1, wherein:

the at least one of the input fan and the output fan comprises a fan cover, the fan cover comprising:

at least one opening to allow air flow; and

a light transmissive window surrounding the at least one opening; and

the light signaling member is fitted into a cavity in the fan cover and arranged to emit light out of the light transmissive window.

20. A method of fabricating a face mask, the method comprising:

providing a cover shield shaped to cover the nose and mouth of a wearer, wherein the cover shield defines an inner space between the cover shield and the skin of the wearer;

coupling an input fan to the cover shield, wherein the input fan is configured to draw air from outside into the inner space;

coupling an output fan to the cover shield, wherein the output fan is configured to expel air out of the inner space; and

coupling a light signaling member to at least one of the input fan and the output fan, wherein the light signaling member is arranged to emit light in a direction away from a face of the wearer.