

Claims

1. A wearable air purifier comprising:
a headgear;
5 an air purifier assembly, the air purifier assembly configured to generate a filtered airflow from an outlet aperture thereof; and
a nozzle assembly connected to the headgear by a hinge assembly, the nozzle assembly comprising an inlet aperture for receiving the filtered airflow from the outlet aperture of the air purifier assembly and an air outlet for emitting the filtered airflow from
10 the nozzle assembly,
wherein the hinge assembly is configured such that the nozzle assembly is movable relative to the headgear between first and second configurations, filtered airflow is emitted from the air outlet in the first configuration, and filtered airflow is not emitted from the air outlet in the second configuration.
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2. A wearable air purifier as claimed in Claim 1, wherein filtered airflow generated by the air purifier assembly is received by the inlet aperture of the nozzle assembly when the nozzle assembly is in the first configuration.
- 20 3. A wearable air purifier as claimed in any of Claims 1 or 2, wherein filtered airflow generated by the air purifier assembly is not received by the inlet aperture of the nozzle assembly when the nozzle assembly is in the first configuration.
4. A wearable air purifier as claimed in any of Claims 1 to 3, wherein the inlet
25 aperture of the nozzle assembly is in fluidic communication with the outlet aperture of the air purifier assembly when the nozzle assembly is in the first configuration.
5. A wearable air purifier as claimed in any of Claims 1 to 4, wherein the inlet
aperture of the nozzle assembly is not in fluidic communication with the outlet aperture
30 of the air purifier assembly when the nozzle assembly is in the second configuration.

6. A wearable air purifier as claimed in any of Claims 1 to 5, wherein the nozzle assembly is connected to the headgear by the hinge assembly such that the nozzle assembly moves away from the headgear when moving from the first configuration to the second configuration.

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7. A wearable air purifier as claimed in any of Claims 1 to 6, wherein the nozzle assembly is retained in the first configuration by a detent.

8. A wearable air purifier as claimed in Claim 7, wherein the detent comprises a first
10 magnetic element and a second magnetic element that cooperates with the first magnetic element to releasably retain the nozzle assembly in the first configuration.

9. A wearable air purifier as claimed in Claim 7, wherein the detent comprises a catch and a catch keeper that cooperates with the catch to releasably retain the nozzle
15 assembly in the first configuration.

10. A wearable air purifier as claimed in any of Claims 1 to 9, wherein the hinge assembly comprises first and second portions rotatably connected to one another, the first portion fixedly connected to one of the nozzle assembly and the headgear, and the second
20 portion releasably connected to the other of the headgear and the nozzle assembly.

11. A wearable air purifier as claimed in any of Claims 1 to 10, wherein the nozzle assembly comprises a first end connected to a first end of headgear by a first hinge, and a second opposite end connected to a second opposite end of the headgear by a second
25 hinge.

12. A wearable air purifier comprising:
a headgear;
an air purifier assembly, the air purifier assembly configured to generate a filtered
30 airflow; and

a nozzle assembly comprising an inlet aperture for receiving the filtered airflow from the air purifier assembly, and an air outlet for emitting the filtered airflow from the nozzle assembly;

5 wherein the nozzle assembly is rotatably connected to the headgear by a hinge assembly and the wearable air purifier comprises a releasable detent that inhibits rotation of the nozzle assembly relative to the headgear until the detent is released.

13. A wearable air purifier as claimed in Claim 12, wherein the nozzle assembly is connected to the headgear by the hinge assembly such that the nozzle assembly moves
10 away from the headgear from a first configuration to a second configuration when the detent is released.

14. A wearable air purifier as claimed in any of Claims 12 or 13, wherein the nozzle assembly is movable relative to the headgear in a plane parallel to a sagittal plane of a
15 wearer in use.

15. A wearable air purifier as claimed in any of Claims 12 to 14, wherein the detent comprises a first magnetic element and a second magnetic element that cooperates with the first magnetic element to releasably inhibit rotation of the nozzle assembly relative to
20 the headgear .

16. A wearable air purifier as claimed in any of Claims 12 to 14, wherein the detent comprises a catch and a catch keeper that cooperates with the catch to releasably inhibit rotation of the nozzle assembly relative to the headgear.

25 17. A wearable air purifier as claimed in any of Claims 12 to 16, wherein the hinge assembly comprises first and second portions rotatably connected to one another, the first portion fixedly connected to one of the nozzle assembly and the headgear, and the second portion releasably connected to the other of the headgear and the nozzle assembly.

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18. A wearable air purifier as claimed in any of Claims 12 to 17, wherein the nozzle assembly comprises a first end connected to a first end of the headgear by a first hinge, and a second opposite end connected to a second opposite end of the headgear by a second hinge.