

CLAIMS:

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1. A non-invasive patient interface that is configured to deliver pressurized respiratory gas to the mouth and nares of a patient, the patient interface comprising a cushion module which comprises:

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- (a) a seal for sealing around the mouth and nares of the patient;
- (b) a housing connected to the seal;
- (c) an interior volume defined by the seal and the housing;
- (d) the seal includes a cavity wall located within the interior volume so as to define first and second cavities within the interior volume of the cushion module; and
- (e) a preferential deformation region that is part of the cavity wall and that

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includes a deformation panel and includes first and second resilient regions between which the deformation panel is disposed.

2. The patient interface as claimed in claim 1, wherein deformation of the deformation region involves a reduction in the spacing between the first and second resilient regions and an associated deformation of the deformation panel to accommodate the reduction in spacing.

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3. The patient interface as claimed in claim 1, wherein the deformation panel includes first and second walls and a connecting portion between the first and second walls.

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4. The patient interface as claimed in claim 3, wherein the first wall projects from the first resilient region in a first direction, the second wall projects from the second resilient region in a second direction different from the first direction.

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5. The patient interface as claimed in claim 4, wherein the second direction is inclined downwardly from a plane intersecting the second resilient region and the connecting portion.

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6. The patient interface as claimed in claim 4, wherein the connecting portion has a bend profile which, at rest, aligns with the first direction of the first wall and aligns with an end of the second wall remote from the second resilient region.

7. The patient interface as claimed in claim 4 or claim 5, wherein the second wall has a curved profile from the connecting portion to the second resilient region.

8. The patient interface as claimed in any one of claims 4 to 6, wherein the second wall increases in thickness from the connecting portion to the second resilient region.
- 5 9. The patient interface as claimed in any one of claims 1 to 7, wherein the deformation panel has a wall thickness that is less than the wall thickness of the first and second resilient regions.
- 10 10. The patient interface as claimed in claim 9, wherein the first and second resilient regions have a wall thickness that is at least three times the wall thickness of the deformation panel.
- 15 11. The patient interface as claimed in any one of claims 1 to 10, wherein the cavity wall further comprises a main panel which connects the housing to the first resilient region.
- 20 12. The patient interface as claimed in claim 11, wherein the cavity wall further comprises a deflector panel which is recessed from a rim of the nasal aperture and which forms a channel configured to direct respiratory gas from the first cavity to the nasal aperture.
- 25 13. The patient interface as claimed in claim 12, wherein the deflector panel abuts the second resilient region.
14. The patient interface as claimed in claim 12 or claim 13, wherein the deformation region is arranged to structurally decouple the deflector panel from the main panel.
- 30 15. The patient interface as claimed in any one of claims 1 to 14, wherein the cavity wall is positioned relative to the nasal aperture and the oral aperture to enable respiratory gas to flow from the first cavity to the nares through the nasal aperture.
- 35 16. The patient interface as claimed in any one of claims 1 to 15, wherein the cavity wall is positioned relative to the nasal aperture and the oral aperture to enable exhaled respiratory gas from the mouth and nares to flow into the second cavity.

17. The patient interface as claimed in any one of claims 1 to 16, wherein the cushion module further comprises an exhaust vent to communicate respiratory gas from within the cushion module to externally of the cushion module.

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18. The patient interface as claimed in claim 17, wherein the second cavity is an upper cavity disposed above the first cavity and is in communication with the exhaust vent.

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19. The patient interface as claimed in claim 18, wherein the housing includes the exhaust vent and the cavity wall connection with the housing at least partially surrounds the exhaust vent.

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20. The patient interface as claimed in claim 19, wherein the exhaust vent is bound by the cavity wall connection with the housing and a connection between the perimeter of the seal and the perimeter of the housing.

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21. The patient interface as claimed in claim 20, wherein the exhaust vent comprises one or more groups of apertures.