

WHAT IS CLAIMED IS:

1. A patient interface assembly comprising:
 - a first interface body;
 - a second interface body; and
 - a housing configured to detachably couple with the first interface body or the second interface body,wherein the first interface body and the second interface body are interchangeable, such that the first interface body is coupled to the housing in a first configuration, and the second interface body is coupled to the housing in a second configuration,
 - wherein each of the first interface body and the second interface body comprise a manifold which comprises one or more openings and wherein the positioning of the openings defines lateral entry points for gas flow to and from each of the first interface body and the second interface body.
2. The patient interface assembly of claim 1, wherein the one or more openings are in fluid communication with each other via the manifold.
3. The patient interface assembly of claim 1 or claim 2, further comprising one or more interface tubes.
4. The patient interface assembly of claim 3, wherein the housing comprises one or more tube engaging portions configured to receive the one or more interface tubes, and wherein the one or more openings are configured to couple to the one or more tube engaging portions of the housing, when the first interface body or the second interface body is detachably coupled to the housing.
5. The patient interface assembly of claim 4, wherein the one or more tube engaging portions are at lateral entry points on opposite ends of the housing.
6. The patient interface assembly of any one or more of claims 3 to 5, wherein one interface tube comprises an inspiratory conduit and/or one interface tube comprises an expiratory conduit.
7. The patient interface assembly of any one of the preceding claims, wherein the one or more openings comprises two openings.
8. The patient interface assembly of any one of the preceding claims, wherein the two openings are on opposing sides of the manifold.

~~2.9.~~ The patient interface assembly of ~~Claim 1~~ any one of the preceding claims, wherein the first interface body is a cannula body.

~~3.~~ The patient interface assembly of Claim 2, wherein the cannula body comprises one or more nasal prongs.

~~4.~~ The patient interface assembly of Claim 3, wherein the one or more prongs are configured to be inserted into nares of a user and form a seal.

10. The patient interface assembly of any one of the preceding claims, wherein the second interface body is a mask body.

~~5.11.~~ The patient interface assembly of any one of the preceding claims, wherein each of the first interface body and the second interface body are configured to form a seal with a user's face.

~~6.~~ The patient interface assembly of Claim 5, wherein the second interface body is a nasal mask.

~~7.~~ The patient interface assembly of Claim 5 or 6, wherein the second interface body is an oro-nasal mask.

~~8.~~ The patient interface assembly of any one of Claims 5-7, wherein the mask defines a breathing chamber and having a user-contacting surface configured to contact a face of the user and surround at least the nares of the user.

~~9.~~ The patient interface assembly of any one of the preceding claims, wherein the housing comprises an upper edge and a lower edge.

~~10.12.~~ The patient interface assembly of any one of the preceding claims ~~Claim 9~~, wherein the an upper edge and the a lower edge of the housing are symmetrical.

~~11.~~ The patient interface assembly of Claim 9 or 10, wherein the lower edge of the housing is curved inwardly to the housing.

~~12.~~ The patient interface assembly of any one of the preceding claims, wherein each of the first interface body and the second interface body comprises a manifold, wherein the manifold is configured to be at least partially received by the housing when the first interface body or the second interface body is detachably coupled to the housing.

13. The patient interface assembly of any one of the preceding claims ~~Claim 12~~, wherein the manifold comprises a housing coupling portion configured to be received within the housing when the first interface body or the second interface body is detachably coupled to the housing.

14. The patient interface assembly of ~~c~~claim 13, wherein the manifold further comprises a raised portion adjacent the housing coupling portion, wherein the raised portion is configured to inhibit rotation of the manifold about the housing when the first interface body or the second interface body is detachably coupled to the housing.

~~15. The patient interface assembly of any one of the preceding claims, wherein the housing and/or the manifold comprises a feedback mechanism to provide a visual or audible feedback when the first interface body or the second interface body is detachable coupled to the housing.~~

~~16. The patient interface assembly of any one of the preceding claims, further comprising one or more interface tubes.~~

~~17. The patient interface assembly of any one of the preceding claims, wherein the housing comprises one or more tube engaging portions configured to receive interface tubes.~~

15. The patient interface assembly of claim 13 or claim 14, wherein the housing coupling portion and the manifold are shaped and/or sized to be inserted in and received by the housing and form a gas tight seal with the housing.

16. The patient interface assembly of any one of claims 13 to 15, wherein the housing coupling portion comprises a trapezoidal shape.

~~18.~~

17. The patient interface assembly of any one of the preceding claims, further comprising a securement member configured to be attached to the housing.

18. The patient interface assembly of any one of the preceding claims, wherein the manifold comprises a ridge at each of the one or more openings that is configured to form a gas tight seal with the housing.

19. The patient interface assembly of claim 18, wherein the ridge is an annular ridge.

20. The patient interface assembly of any one of the preceding claims, wherein the manifold comprises a visual indicator for indicating correct positioning and proper alignment with the housing when the first interface body or second interface body is detachably coupled to the housing.

21. The patient interface assembly of claim 20 when dependent on claim 18 or claim 19, wherein the visual indicator comprises a colored ring located on or around the ridge of the manifold.

~~19. The patient interface assembly of Claim 1, wherein the first interface body comprises a mask or nasal prongs of a first size and the second interface body comprises a mask or nasal prongs of a second size, wherein the first size is different from the second size.~~

~~20. A patient interface comprising:~~

~~an interface body;~~

~~a housing;~~

~~one or more interface tubes;~~

~~a first securement member; and~~

~~a second securement member extending vertically for providing vertical stability to the patient interface.~~

~~21. The patient interface of Claim 20, wherein the interface body is configured to be engaged on the patient's face and form a seal.~~

~~22. The patient interface of Claim 20 or 21, wherein the interface body is a mask body or a cannula body.~~

~~23. The patient interface of any one of Claims 20-22, wherein the one or more tubes are configured to be coupled to the housing.~~

~~24. The patient interface of any one of Claims 20-23, wherein the one or more tubes are formed as a single piece with the housing.~~

~~25. The patient interface of any one of Claims 20-24, wherein each of the one or more tubes comprises an overmoulded grip.~~

~~26. The patient interface of any one of Claims 20-25, wherein the first securement member comprises:~~

~~a central portion;~~

~~a pair of support pads, each of the support pads configured to engage a securing mechanism at on opposing sides of the central portion; and~~

~~a pair of bridging portions, each of the bridging portions connecting the central portion and a respective one of the support pads.~~

~~27. The patient interface of Claim 26, wherein the first securement member further comprises a patch assembly coupled to each of the support pads for securing the support pads to the user.~~

~~28. The patient interface of any one of Claims 20-27, wherein the second securement member is coupled to the housing.~~

~~29. The patient interface of any one of Claims 20-28, wherein the second securement member is configured to engage the forehead of a user.~~

~~30. The patient interface of any one of Claims 20-29, wherein the second securement member is constructed from a fabric material~~

~~31. The patient interface of any one of Claims 20-30, wherein the second securement member further comprises a patch assembly for securing the second securement member to the user.~~

~~32. The patient interface of any one of Claims 20-31, wherein the interface body has a Shore hardness between 20A-100A.~~

~~33. The patient interface of any one of Claims 20-32, wherein each of the one or more interface tubes is tapered toward one end.~~

~~34. A patient interface comprising an interface body, wherein the interface body comprises:~~

~~one or more prongs extending from a base region at the interface body;~~

~~one or more openings to allow the flow of respiratory gases into and from the interface body;~~

~~wherein the one or more prongs are configured to flex at the base region while maintaining seal with the nares of the user.~~

~~35. The patient interface of Claim 34, wherein the interface body comprises a right prong and a left prong.~~

~~36. The patient interface of Claim 34 or 35, wherein a thickness of the one or more prongs varies along the length of the one or more prongs or maintains a constant thickness along the length of the one or more prongs.~~

~~37. The patient interface of any one of Claims 34-36, wherein the base region has a thickness smaller than the rest of the interface body.~~

~~38. The patient interface of any of Claims 34-36, wherein the base region has a surface recessed relative to the adjacent region of the interface body.~~

~~39. The patient interface of any of Claims 34-38, wherein the base region has a recessed surface around the one or more prongs.~~

~~40. The patient interface of any of Claims 34-39, wherein the base region has a recessed surface extending around two prongs.~~

41. — The patient interface of any of Claims 34-40, wherein the one or more prongs are configured to flex in forward and rear directions.

42. — The patient interface of any of Claims 34-41, wherein the one or more prongs are configured to flex in right and left directions.

43. — The patient interface of any of Claims 34-42, wherein the one or more prongs have a circular cross section adjacent at a top end of the prongs.

44. — The patient interface of any of Claims 34-43, wherein the one or more prongs are configured to flex while maintaining their diameter and cross-sectional shape along their lengths.

~~45. The patient interface of any of Claims 34-44, wherein the one or more prongs are configured to flex while maintaining their resistance to flow (RTF).~~

~~46. A respiratory system comprising:~~

~~a gas flow source;~~

~~an inspiratory conduit fluidically connected to the gas flow source; and~~

~~a patient interface comprising:~~

~~an interface body;~~

~~a housing;~~

~~one or more interface tubes; and~~

~~a first securement member.~~

~~47. The respiratory system of Claim 46, further comprising an expiratory conduit configured to receive gases from the patient interface.~~

~~48. The respiratory system of Claim 46 or 47, further comprising a bubbler device.~~

~~49. The respiratory system of any one of Claims 46-48, further comprising a humidifier.~~

~~50. The respiratory system of any one of Claims 46-49, wherein the housing is configured to receive each of a plurality of interface bodies, such that the interface bodies are interchangeable.~~

~~51. The respiratory system of any one of Claims 46-50, wherein the interface body is a mask body or a cannula body.~~

~~52. The respiratory system of any one of Claims 46-51, wherein the one or more interface tubes are configured to be coupled to the housing.~~

~~53. The respiratory system of any one of Claims 46-52, wherein one of the one or more interface tubes is configured to be connected to the inspiratory conduit.~~

~~54. The respiratory system of any one of Claims 46-53, wherein the one or more tubes are formed as a single piece with the housing.~~

~~55. The respiratory system of any one of Claims 46-54, wherein each of the one or more tubes comprises an overmoulded grip.~~

~~56. The respiratory system of any one of Claims 46-55, wherein the first securement member comprises:~~

~~a central portion;~~

~~a pair of support pads, each of the support pads configured to engage the face of a user on opposing sides of the central portion; and~~

~~a pair of bridging portions, each of the bridging portions connecting the central portion and a respective one of the support pads.~~

~~57.—The respiratory system of any one of Claims 46-56, wherein the first securement member further comprises a patch assembly coupled to each of the support pads for securing the support pads to the user.~~

~~58.—The respiratory system of any one of Claims 46-57, wherein the patient interface further comprises a second securement member coupled to the housing.~~

~~59.—The respiratory system of Claim 58, wherein the second securement member is configured to engage the forehead of a user.~~

~~60.—The respiratory system of Claim 58 or 59, wherein the second securement member is constructed from a fabric material~~

~~61.—The respiratory system of any one of Claims 58-60, wherein the second securement member further comprises a patch assembly for securing the second securement member to the user.~~

~~62.—The respiratory system of any one of Claims 46-61, further comprising a headgear or a bonnet.~~

~~63. A securement member for a patient interface of a respiratory system comprising:~~

~~a soft, flexible barb for detachably coupling with a housing of the patient interface.~~

~~64.—The securement member of Claim 63, wherein the barb comprises one or more tabs.~~

~~65.—The securement member of Claim 64, wherein the housing comprises an opening, wherein the one or more tabs are configured to catch on the housing at the opening of the housing.~~

~~66.—The securement member of any one of Claims 63-65, wherein the barb comprises a cutout, wherein the cutout is configured to aid in collapsing of the barb.~~

~~67.—The securement member of any one of Claims 63-66, wherein the barb comprises an extended top portion that is configured to prevent the barb from being over inserted into the opening of the housing.~~

~~68.—The securement member of any one of Claims 63–67, wherein the barb is overmoulded onto the securement member.~~

~~69. A securement member for a patient interface of a respiratory system comprising:
a support pad that secures to a patch assembly on a patient, wherein the support pad is hinged relative to the rest of the securement member.~~

~~70.—The securement member of Claim 69, wherein the support pad is flexible.~~

~~71.—The securement member of any one of Claims 69–70, further comprising a hinge between the support pad and a portion of the securement member.~~

~~72.—The securement member of any one of Claims 69–71, wherein the support pad is overmoulded onto the securement member.~~

~~73.—The securement member of Claim 71, wherein the hinge is a 180 degree hinge.~~

~~74.—A securement member for a patient interface of a respiratory system comprising:~~

~~a first flexible portion connectable with a patient interface component;
a second flexible portion connectable to a patient's forehead; and
a third rigid portion extending between the first and second portions.~~

~~75.—The securement member of Claim 74, wherein the first flexible portion is a barb.~~

~~76.—The securement member of any one of Claims 74–75, wherein the second flexible portion is a support pad.~~

~~77.—The securement member of any one of Claims 74–76, wherein the first and/or second flexible portions are overmoulded onto the third rigid portion.~~

~~78.—The securement member of any one of Claims 74–77, wherein the second flexible portion is hinged relative to the third rigid portion.~~

~~79.—The securement member of any one of Claims 74–78, wherein the securement member is detachably connectable to housing of the patient interface.~~

~~80.—The securement member of any one of Claims 74–79, wherein the component is a housing or interface body.~~

~~81. A patient interface assembly comprising:~~

~~an interface body comprising a manifold comprising a front side configured to contact the patient and a rear side opposite the front side, wherein the manifold comprises a raised portion of a housing coupling portion positioned between the rear side of the manifold and the front side of the manifold,~~

~~the manifold comprising a width that runs along an inner lumen of the manifold and a horizontal axis that runs along the width, wherein the raised portion is angled with respect to the horizontal axis, wherein the angled raised portion of the housing coupling portion is configured to improve the assembly and alignment of the interface body when it detachably couples with a housing via the manifold;~~

~~a housing comprising a front patient facing side and a rear side opposite the front side, wherein the housing comprises a width that extends from a first tube engaging portion on one end of the housing to a second tube engaging portion on an opposite end of the housing and a horizontal axis that runs along the width, wherein the housing comprises an interface body receiving portion between the front side of the housing and the rear side of the housing, wherein the interface body receiving portion is angled with respect to the horizontal axis, wherein the angled interface body receiving portion is configured to improve the assembly and alignment when the manifold is detachably coupled and received by the housing.~~

82.—The patient interface assembly of Claim 81, wherein the raised portion of the manifold comprises a first width on the front side of manifold that is greater than a second width on the rear side of the manifold.

83.—The patient interface assembly of Claim 81, wherein the raised portion of the manifold comprises a first width on the front side of manifold that is less than a second width on the rear side of the manifold.

84.—The patient interface assembly of any one of Claims 81-83, wherein the angled raised portion of the housing coupling portion of the manifold extends at an angle of 120 degrees from the rear side of the manifold.

85.—The patient interface assembly of any one of Claims 81-83, wherein the angled raised portion of the housing coupling portion of the manifold extends at an angle of 60 degrees from the rear side of the manifold.

~~86.—The patient interface assembly of any one of Claims 81–83, wherein the angled raised portion of the housing coupling portion of the manifold extends at an angle of between 30 degrees and 170 degrees from the rear side of the manifold.~~

~~87.—The patient interface assembly of any one of Claims 81–86, further comprising an engagement surface where the raised portion of the housing coupling portion and the interface body receiving portion contact each other, wherein a portion of the raised portion of the manifold at the engagement surface is higher relative to the engagement surface of the housing.~~

~~88.—The patient interface assembly of any one of Claims 81–87, wherein the manifold comprises a portion on either side of manifold that is configured to extend within the housing, wherein the portion that extends within the housing has a ridge configured to seal to the housing.~~

~~89.—The patient interface assembly of Claim 88, wherein the ridge is an annular ridge.~~

~~90.—The patient interface assembly of Claims 88 or 89, wherein the ridge is configured to seal with the internal surface of housing.~~

~~91.—The patient interface assembly of any one of Claims 81–90, wherein the manifold has a first distance between the front side of the engagement surface and the annular ridge and a second distance between the rear side of the engagement surface and the annular ridge, wherein the second distance is greater than the first distance.~~

~~92.—The patient interface assembly of any one of Claims 81–91, wherein the front side of the manifold has a first wall thickness and the rear side of the manifold has a second wall thickness, wherein the first wall thickness is thicker than the second wall thickness.~~

~~93. A patient interface assembly comprising:~~

~~a housing that detachably couples with a manifold of an interface body, wherein the housing comprises a side protrusion and a central protrusion, wherein the side protrusion comprises features for coupling a first securement member to the housing and wherein the central protrusion comprises one or more features for coupling a second securement member to the housing.~~

~~94.—The patient interface assembly of Claim 93, wherein the housing is a rigid housing.~~

95.—~~The patient interface assembly of any one of Claims 93 or 94, wherein the one or more features for coupling with a second securement member to the housing are one or more openings.~~

96.—~~The patient interface assembly of any one of Claims 93-95, wherein the second securement member is detachably coupled with the housing.~~

97.—~~The patient interface assembly of any one of Claims 93-96, wherein the one or more openings comprise a lip configured to catch a complementary fitting portion of the second securement member.~~

98.—~~The patient interface assembly of any one of Claims 93-97, wherein the features of the side protrusion comprise an enlarged head and a stem for a push-fit coupling.~~

99.—~~The patient interface assembly of any one of Claims 93-98, wherein the first securement member is detachably coupled with the housing.~~

100.—~~The patient interface assembly of any one of Claims 93-99, further comprising a tubing, wherein the tubing is integral with the housing.~~

101.—~~The patient interface assembly of any one of Claims 93-99, further comprising a tubing, wherein the tubing is detachably coupled with the housing.~~

102.—~~A securement member for a patient interface of a respiratory system comprising:~~

~~a central portion;~~

~~a pair of support pads, each of the support pads configured to engage the face of a user on opposing sides of the central portion; and~~

~~a pair of bridging portions, each of the bridging portions connecting the central portion and a respective one of the support pads;~~

~~wherein the bridging portions comprise cutouts for receiving a housing, wherein the bridging portions comprise a thickened portion surrounding the cutouts.~~

103.—~~The securement member of Claim 102, wherein the securement member further comprises a patch assembly coupled to each of the support pads for securing the support pads to the user.~~

104.—~~The securement member of any one of Claims 102 or 103, wherein the securement member further comprises openings configured to detachably couple the~~

~~securement member to protrusions on a housing, wherein the first securement member is push-fit over the protrusions on the housing.~~

~~105.—The securement member of Claim 104, wherein the securement member further comprises a recess on the rear side of the securement member, wherein the recess is configured to accommodate for a central protrusion on the housing when the securement member is coupled to the housing.~~

~~106.—A patient interface assembly of a respiratory system comprising:~~

~~an interface body; and~~

~~a housing, wherein the interface body is detachably coupled to the housing;~~

~~and~~

~~a feature that limits rotation of the interface body relative to the housing.~~

~~107.—The patient interface assembly of Claim 106, wherein the interface body comprises a manifold and the feature comprises a shoulder portion on the rear of the manifold.~~

~~108.—The patient interface assembly of Claim 107, wherein the shoulder portion abuts against the housing to limit rotation.~~

~~109.—The patient interface assembly of Claim 106, wherein the feature comprises a keyed feature on manifold and housing.~~

~~110.—The patient interface assembly of any one of Claims 106-109, wherein the interface body comprises a cannula body.~~

~~111.—The patient interface assembly of any one of Claims 106-109, wherein the interface body comprises a mask body.~~

~~112.—The patient interface assembly of any one of Claims 106-111, wherein the housing comprises one or more tube engaging receiving portions configured to receive interface tubes.~~

~~113.—A patient interface assembly of a respiratory system comprising:~~

~~a housing;~~

~~an inspiratory conduit with a first end and a second end, the first end configured to connect the housing and deliver incoming flow of gases and the second end with locking fingers; and~~

~~an expiratory conduit with first end and second end, the first end configured to connect a housing and receive flow of expiratory gases and the second end with locking fingers.~~

~~114.—The patient interface assembly of Claim 113, wherein the locking fingers at the second end of the expiratory conduit are configured to couple to a downstream component.~~

~~115.—The patient interface assembly of Claim 114, wherein the downstream component comprises a bubbler.~~

~~116.—The patient interface assembly of any one of Claims 113–115, wherein the locking fingers at the second end of the inspiratory conduit are configured to couple to an upstream component.~~

~~117.—The patient interface assembly of Claim 116, wherein the upstream component comprises a flow source.~~

~~118.—The patient interface assembly of any one of Claims 113–117, wherein the locking fingers extend away from a connector, the locking fingers being spaced apart and narrowing along their length away from the connector.~~

~~119.—The patient interface assembly of Claim 118, the locking fingers comprising locking recesses that are formed at least on outer surfaces of each of the locking fingers, the locking recesses being configured to lock with portions of a gas delivery tube connector, the locking fingers being configured to interact with recesses of the gas delivery tube connector to align the connector and the gas delivery tube connector.~~

~~120.—A patient interface assembly of a respiratory system comprising:~~

~~an interface body; and~~

~~a housing, wherein at least a portion of an external surface of the housing and/or the interface body comprises a low friction surface.~~

~~121.—The patient interface assembly of Claim 120, wherein the interface body comprises a cannula body.~~

~~122.—The patient interface assembly of Claim 120, wherein the interface body comprises a mask body.~~

~~123.—The patient interface assembly of any one of Claims 120–122, wherein the low friction surface is provided by a parylene coating and/or a blasting process.~~

~~124. The patient interface assembly of any one of Claims 120-123, wherein the interface body comprises a rear side comprising patient contacting surface and a front side opposite the rear side, wherein the rear side has a low friction surface.~~

~~125. The patient interface assembly of any one of Claims 120-124, wherein the interface body is detachable with the housing and the interface body comprises a manifold with a low friction surface that engages with the housing.~~

~~126. A manufacturing process for a patient interface assembly for a respiratory system comprising:~~

~~manufacturing an interface body; and~~

~~treating an external surface of the interface body to provide a low friction surface.~~

~~127. The manufacturing process of Claim 126, wherein the interface body comprises a cannula body.~~

~~128. The manufacturing process of Claim 126, wherein the interface body comprises a mask body.~~

~~129. The manufacturing process of any of the Claims 126-128, wherein the interface body is detachable with a housing.~~

~~130. The manufacturing process of any of claims 126-129, wherein the low friction surface is provided by a surface coating or a surface blasting process.~~

~~131. The manufacturing process of claim 130, wherein the surface coating is a parylene coating.~~

~~132. The manufacturing process of claim 130, wherein the surface blasting process is a bead blasting process.~~

~~133. The manufacturing process of any of the Claims 126-132, wherein substantially an entire external surface of the interface body is a low friction surface.~~

~~134. The manufacturing process of any of the Claims 126-133, wherein a portion of the interface body is a low friction surface, wherein the interface body comprises a rear patient facing side of the interface body and a front side opposite the rear side, wherein the low friction portion is a rear portion of a manifold of the interface body.~~

~~135. The manufacturing process of any of the Claims 126-134, wherein a portion of the interface body is a low friction surface, wherein the interface body comprises a rear patient~~

facing side of the interface body and a front side opposite the rear side, wherein the low friction portion is a front portion of a manifold of the interface body.

136.—A patient interface assembly comprising:

an interface body comprising:

a manifold comprising a front side configured to contact the patient and a rear side opposite the front side, wherein the manifold comprises a raised portion of a housing coupling portion positioned between the rear side of the manifold and the front side of the manifold;

wherein the manifold comprising a width that runs along an inner lumen of the manifold and a horizontal axis that runs along the width, wherein the raised portion is angled with respect to the horizontal axis, wherein the angled raised portion of the housing coupling portion is configured to improve the assembly and alignment of the interface body when it detachably couples with a housing via the manifold; and

a feature that limits rotation of the interface body relative to the housing; and the housing comprising:

a front patient facing side;

a rear side opposite the front side;

wherein the housing comprises a width that extends from a first tube engaging portion on one end of the housing to a second tube engaging portion on an opposite end of the housing and a horizontal axis that runs along the width, wherein the housing comprises an interface body receiving portion between the front side of the housing and the rear side of the housing, wherein the interface body receiving portion is angled with respect to the horizontal axis, wherein the angled interface body receiving portion is configured to improve the assembly and alignment when the manifold is detachably coupled and received by the housing;

a first securement member comprising:

a central portion;

a pair of support pads, each of the support pads configured to engage the face of a user on opposing sides of the central portion; and

a pair of bridging portions, each of the bridging portions connecting the central portion and a respective one of the support pads;

wherein the bridging portions comprise cutouts for receiving the housing, wherein the bridging portions comprise a thickened portion surrounding the cutouts;

a second securement member comprising:

a first flexible portion connectable with a patient interface component;

a second flexible portion connectable to a patient's forehead; and

a third rigid portion extending between the first and second portions; an

inspiratory conduit with a first end and a second end, the first end configured to connect to the housing and deliver incoming flow of gases and the second end with locking fingers; and

an expiratory conduit with first end and second end, the first end configured to connect to the housing and receive flow of expiratory gases and the second end with locking fingers.

137.—The patient interface assembly of Claim 136, wherein the interface body comprises a cannula body.

138.—The patient interface assembly of Claim 136, wherein the interface body comprises a mask body.

139.—The patient interface assembly of any one of Claims 136-138, wherein the inspiratory and expiratory conduit are integral with the housing.

140.—The patient interface assembly of any one of Claims 136-139, wherein the first and second securement members are connectable with the housing.

141.—The patient interface assembly of any one of Claims 136-140, wherein the second securement member is connectable with a patch assembly or headgear of a patient.

142.—The patient interface assembly of any one of Claims 136-141, wherein the second securement member is detachably coupled to the housing.

143.—The patient interface assembly of any one of Claims 136-142, wherein the interface body is detachably coupled to the housing.

144.—A patient interface assembly comprising:

an interface body; and

~~a housing configured to detachably couple with the interface body, the housing comprises one or more tube engaging portions at lateral entry points on opposite ends of the housing, wherein the tube engaging portions are configured to receive interface tubes.~~

~~145.—The patient interface assembly of Claim 144, wherein the interface body comprises a cannula body.~~

~~146.—The patient interface assembly of Claim 144, wherein the interface body comprises a mask body.~~

~~147.~~22.A patient interface assembly comprising:

a first interface body;

a second interface body; and

a housing configured to detachably couple with the first interface body or the second interface body, the housing comprises one or more tube engaging portions at lateral entry points of the housing, wherein the tube engaging portions are configured to receive interface tubes;

wherein the first interface body and the second interface body are interchangeable, such that the first interface body is coupled to the housing in a first configuration, and the second interface body is coupled to the housing in a second configuration.

~~148.—An interface body comprising:~~

~~a mask comprising a breathing chamber and having a user contacting surface configured to contact a face of the user and surround at least the nares of the user;~~

~~a manifold in fluid communication with the breathing chamber, the manifold comprising a first opening on a first lateral side of the manifold and a second opening on the second lateral side of the manifold, wherein the first and second openings permit gas flow into and out of the breathing chamber.~~

~~149.—The mask body of Claim 148, wherein the first and second openings are configured to be in communication with interface tubes configured to deliver a flow of gas entering and exiting the mask and the first and second lateral side of the manifold.~~

~~150.—An interface body comprising:~~

~~a mask, wherein the mask defines a breathing chamber and having a user-contacting surface configured to contact a face of the user and surround at least the nares of the user, the mask comprising:~~

~~a mask seal, wherein at least part of the mask seal comprises a region of reduced stiffness, wherein the region of reduced stiffness is positioned between a first stiffer region and a second stiffer region, wherein the first and second stiffer regions have a stiffness greater than the stiffness of the region of reduced stiffness;~~

~~wherein when the first stiffer region is moved toward the second stiffer region, the region of reduced stiffness buckles in a single direction as the first stiffer region continues to move towards the second stiffer region.~~

~~151.—The mask body of Claim 150, wherein the first stiffer region comprises a structural support portion extending partially around the circumference of the mask.~~

~~152.—The mask body of Claim 150, wherein the second stiffer region is a front portion of the mask.~~

~~153.—A patient interface assembly comprising:~~

~~an interface body comprising a housing coupling portion, the housing coupling portion comprise a first patient facing side and an opposite second side, wherein the housing coupling portion comprises a shape defined between the first side and the second side of the housing coupling portion; and~~

~~a housing comprising an interface body receiving portion, wherein the interface body receiving portion is a complementary shape to the shape of the housing coupling portion of the interface body, wherein the housing is configured to detachably coupled with the interface body.~~

~~154.—The patient interface assembly of Claim 153, wherein the shape of the housing coupling portion comprises a trapezoidal shape.~~

~~155.—The patient interface assembly of Claim 154, wherein the housing coupling portion of the interface body comprises a wider base of the trapezoid proximal to the front portion of the housing.~~

~~156. The patient interface assembly of Claim 154, wherein the housing coupling portion of the interface body comprises a wider base of the trapezoid proximal to the rear portion of the housing.~~

~~157. An interface body comprising:~~

~~one or more prongs extending from a base region;~~

~~one or more openings to allow the flow of respiratory gases into and from the prongs;~~

~~wherein the one or more prongs are configured to flex at the base region while maintaining seal with the nares of the user.~~

~~158. The patient interface assembly of Claim 157, wherein the one or more prongs comprise a thickness that varies along the length of the one or more prongs.~~

~~159. The patient interface assembly of Claim 157, wherein the one or more prongs maintains a constant thickness along the length of the one or more prongs.~~

~~160. An interface body, wherein the interface body comprises:~~

~~one or more prongs extending from a base region at the interface body;~~

~~one or more openings to allow the flow of respiratory gases into and from the interface body;~~

~~wherein the one or more prongs are configured to flex at the base region while maintaining seal with the nares of the user.~~