

What is claimed:

1. A nasal ventilation mask having an integrated end-tidal CO₂ monitor for monitoring end-tidal CO₂ expelled nasally and/or orally by a patient.
2. The mask of claim 1, wherein the mask is adapted for use as an oxygen transport mask,
5 or as a ventilation mask providing O₂ and anesthesia gases, and said end-tidal CO₂ monitor is adapted for monitoring end-tidal CO₂ simultaneously or sequentially.
3. The mask of claim 1, wherein said mask is adapted for CPAP pre-operatively, intra-operatively, and/or post-operatively.
4. The mask of claim 1, wherein said mask is adapted for connection to a resuscitator bag
10 such that a patient's mouth and airway are not obstructed by the resuscitator bag, whereby to allow for direct laryngoscopy and intubation.
5. The mask of any one of claims 1-4, said mask having an O₂ port for introducing oxygen into the mask, and a ventilation port and a gas monitoring attachment integral to or attached to the ventilation port.
- 15 6. The mask of any one of claims 1-5, further comprising an anesthesiologist controlled 2-way, 3 port valve permitting an anesthesiologist to switch between separately monitoring nasal and oral end-tidal CO₂, or simultaneously monitoring nasal and oral end-tidal CO₂, wherein when oral end-tidal CO₂ monitoring is chosen, ventilation gases expelled orally by the patient are also monitored.
- 20 7. The mask of any one of claims 1-6, having an exterior opening under a nose region of the mask, adapted to overlie a patient's lip region, wherein said opening is adapted to scavenge gases expelled orally by a wearer.

8. The mask of any one of claims 1-7, said mask further including a scavenger line for diverting at least a portion of the scavenged gas to an end-tidal CO₂ monitor.
9. The mask of any one of claims 1-8, wherein a connector is provided where the end-tidal CO₂ monitoring line intercepts the scavenger line, diverting gas flow, resulting in a positive pressure relative to the end-tidal CO₂ line, whereby to permit gases to be sampled from the scavenger line.
10. An anesthesia mask having a built in scavenger system for collecting anesthetic gases that may leak out around a mouth and/or nose of a patient.
11. The use of a nasal ventilation mask having an integrated end-tidal CO₂ monitor for ventilating a patient, comprising collecting and monitoring end-tidal CO₂ expelled nasally and/or orally by the patient.
12. The use according to claim 11, wherein the mask is used as an oxygen transport mask or as a ventilation mask providing O₂ and anesthesia gases, and monitoring end-tidal CO₂, O₂ and/or anesthesia gases.
13. The use according to claim 11, wherein said mask is used for CPAP pre-operatively, intra-operatively, and/or post-operatively.
14. The use according to claim 11, wherein the mask is connected to a resuscitator bag such that the patient's mouth and airway are not obstructed by the resuscitator bag, whereby to allow for direct laryngoscopy and intubation.
15. The use according to any one of claims 11-14, wherein the mask has an O₂ port for introducing oxygen into the mask, and a ventilation port and a gas monitoring attachment integral to or attached to the ventilation port.

16. The use according to any one of claims 11-15, wherein anesthesia gases and O₂ are provided nasally to the patient.
17. The use according to any one of claims 11-16, wherein the mask has an exterior opening under a nose region in the mask, and positioning the mask over the patient's lip region, and
5 allowing gases expelled orally by the patient to be scavenged and ported to a scavenger device.
18. The use according to any one of claims 11-17, wherein said mask further includes a scavenger line, and diverting at least a portion of the scavenged gas to the end-tidal CO₂ monitor.
19. The use according to any one of claims 11-18, wherein the mask includes a connector provided at a position where the end-tidal CO₂ monitoring line intercepts the scavenger line,
10 diverting at least a portion of the gas flow, and resulting in a positive pressure relative to the end-tidal CO₂ line, and sampling gas from the scavenger line.
20. The use according to any one of claims 11-19, wherein the mask further comprises an anesthesiologist controlled 2-way, 3 port valve permitting an anesthesiologist to switch between separately monitoring nasal and oral expulsions of end-tidal CO₂, or simultaneously monitoring
15 nasal and oral end-tidal CO₂, opening the valve to scavenge anesthesia gases expelled orally, and end-tidal CO₂ monitoring of said gases expelled orally.
21. The use of an anesthesia mask having a built in scavenger system for collecting anesthetic gases that may leak out around the mouth and/or nose of the patient, and collecting said leaked gases.
- 20 22. The use according to claim 21, including the step of monitoring said collected gases.
23. A nasal ventilation mask having tabs or eyelets for attaching the mask anteriorly with a mask anchor, or posteriorly with a traditional anesthesia mask strap, said mask characterized by one or both of the following features:

(a) wherein the mask is adapted to accommodate a combined anterior-posterior head strap attached to the mask alone, or to the mask and a support surface, to hold a patient's head and/or neck against movement; and

(b) wherein the mask is adapted to secure a patient's head with a head strap to a support surface, wherein the patient's head and the support surface remain in a desired position even when a provider changes the patient's head and/or neck angles.

24. A nasal mask, wherein the mask is usable as an oxygen transport mask or as a ventilation mask for providing O₂ and anesthesia gases, and for monitoring end-tidal CO₂.

25. The mask of claim 24, said mask having one or more ports for monitoring end-tidal CO₂, wherein the mask is adapted for use for CPAP pre-operatively, intra-operatively, and/or post-operatively.

26. The mask of claim 24 or claim 25, said mask having ports for monitoring end-tidal CO₂, wherein the mask is adapted to be connected to a resuscitator bag such that a patient's mouth and airway are not obstructed by the resuscitator bag, whereby to allow for direct laryngoscopy and intubation.

27. The mask of any one of claims 24-26, wherein the mask is attachable anteriorly with a mask anchor, or posteriorly with a conventional anesthesia mask strap.

28. The mask of any one of claims 24-27, said mask having an O₂ port adapted for introduction of oxygen into the mask, a ventilation port and a gas monitoring attachment integral to or attached to the mask.

29. The mask of any one of claims 24-28, said mask having a built in scavenger system for collecting anesthetic gases that may leak out from around a patient's mouth and/or nose.

30. The mask of any one of claims 24-29, said mask having a chin strap adapted for application to a patient's submental space, attached to said mask, for applying pressure to force a patient's tongue against the patient's soft palate and induce an obstruction of the retro-glossal space, whereby to reduce or prevent leakage of gases out of the patient's mouth and allow the patient to breathe out the nose, wherein the chin strap is adapted to release pressure, if needed, during exhalation to prevent an expiratory obstruction.
31. A CPR mask for nose-to-mouth and/or mouth-to-mouth resuscitation, comprising a body shaped to cover a nose and/or mouth of a patient, said mask including a CO₂ absorber for eliminating at least in part a rescuer's exhaled CO₂ delivered to the patient.
32. The mask of claim 31, wherein the CO₂ absorber is coated on an inside surface of the mask.
33. The mask of claim 31 or claim 32, wherein the mask further includes a ventilation tube, wherein the CO₂ absorber is located in the ventilation tube.
34. The mask of claim 33, further including a biological filter, incorporated into the ventilation tube.
35. The mask of any one of claims 31-34, further including a one-way valve.
36. The mask of any one of claims 31-35, including straps adapted for holding the mask to a head of the patient.
37. The mask of any one of claims 31-36, wherein the mask further includes a compliant periphery adapted to conform to a face of the patient, wherein the periphery includes a soft, compliant air bladder or a resiliently deformable foam cushion.
38. The mask of any one of claims 31-37, further including a biological filter incorporated into an inside of the mask.

39. The use of a nasal ventilation mask having tabs or eyelets for attaching the mask anteriorly with a mask anchor, or posteriorly with a traditional anesthesia mask strap, for ventilating a patient, said mask having a combined anterior-posterior head strap, where the posterior head strap is adapted to attach to the mask alone, or to attach to the mask and a support surface;

positioning the mask on a patient's head; and

securing the patient's head with the head strap to the support surface, whereupon the patient's head is maintained in a desired position relative to the support surface even when the provider changes the head and/or neck angles.

40. The use of a ventilation mask having a body shaped to cover the nose and/or mouth of a patient, for providing nose-to-mouth and/or mouth-to-mouth resuscitation said mask including a CO₂ absorber for eliminating at least in part a rescuer's exhaled CO₂ delivered to the patient;

positioning the mask on a head of the patient in need of resuscitation; and

administering resuscitation to the patient.

41. The use according to claim 40, wherein the CO₂ absorber is coated on an inside surface of the mask.

42. The use according to claim 40 or claim 41, wherein the mask further includes a ventilation tube, wherein CO₂ absorber is located in the ventilation tube.

43. The use according to claim 42, wherein a biological filter is incorporated into the mask or a ventilation tube for the mask.

44. The use according to any one of claims 40-43, wherein the mask further includes a one-way valve.

45. The use according to any one of claims 40-44, wherein the mask includes straps adapted for holding the mask to the head of a patient.

46. The use according to any one of claims 40-45, wherein the mask further includes a compliant periphery adapted to conform to a face of the patient, wherein the periphery includes a

5 soft, compliant air bladder or a resiliently deformable foam cushion.