

WHAT IS CLAIMED IS:

1. A clip connector for connecting a headgear to a mask body, comprising:
a body portion configured for attachment to the headgear; and
a hook portion, the hook portion defining a U-shape having a first leg, a
5 second leg and an entrance to a space between the first leg and the second leg, the
hook portion comprising:
a central portion;
a pair of outer portions positioned on opposing sides of the central
portion, wherein each of the central portion and the pair of outer portions
10 define a portion of both the first leg and the second leg; and
an interference bump on at least one of the central portion and the pair
of outer portions, the interference bump extending into the entrance to the
space;
wherein the central portion and the pair of outer portions are
15 configured to flex independently of one another.
2. The clip connector of Claim 1, wherein a width of the entrance at the
interference bump is smaller than a width of an attachment structure of the mask body
configured to be received within the space of the hook portion.
3. The clip connector of either one of Claims 1 or 2, wherein only the central
20 portion includes the interference bump and flexes to allow an attachment structure of the
mask body to be introduced into the space of the hook portion.
4. The clip connector of either one of Claims 1 or 2, wherein only the outer
portions include the interference bumps and flex to allow an attachment structure of the mask
body to be introduced into the space of the hook portion.
- 25 5. The clip connector of either one of Claims 3 or 4, wherein at least the ones of
the central portion and outer portions without the interference bump accommodates a tension
force of the headgear in use.
6. The clip connector of any one of Claims 1-5, further comprising a slot
between the central portion and each of the outer portions.

7. The clip connector of Claim 6, wherein the slot extends through first leg and second leg of the hook portion.

8. The clip connector of either one of Claims 6 or 7, wherein the slots are filled with an elastic filler material.

5 9. The clip connector of Claim 8, wherein the filler material is overmolded onto the clip connector.

10. The clip connector of any one of Claims 1-9, further comprising at least one finger grip portion disposed on the body portion, the finger grip portion formed from a soft or elastic material.

10 11. The clip connector of Claim 10, wherein the soft or elastic material of the finger grip portion is overmolded onto the body portion.

12. The clip connector of either one of Claims 10 or 11, wherein the at least one finger grip portion comprises first and second finger grip portions on opposing edges of the body portion of the clip connector.

15 13. The clip connector of any one of Claims 1-12, wherein the central portion is more flexible than the outer portions.

14. A mask assembly comprising:

a mask body comprising a post and an opening adjacent the post; and
the clip connector of any one of Claims 1-13;

20 wherein the post is configured to be received within the space of the hook portion of the clip connector, wherein the mask body comprises a limitation bump within the opening that contacts the clip connector to limit rotation of the clip connector relative to the mask body.

25 15. The mask assembly of Claim 14, wherein the limitation bump limits one or both of rotation about an axis of the post and rotation normal to the axis of the post.

16. The mask assembly of either one of Claims 14 or 15, wherein the limitation bump is located on an upper edge of the opening.