CLAIMS

1. An incremental mandibular advancement anti-snoring and obstructive sleep apnea preventing device (1) comprising an upper member adapted to engage the maxillary dentition of a human and a lower member adapted to engage the mandibulary dentition of a human, characterized in that the upper and lower members are resilient or mechanical hinged and the members are incrementally adjustable to each other, whereby the hinging is adapted to allow physiological movements of the lower jaw in the sagital plane while retaining a forward position of the lower jaw relative to the upper jaw and thereby keeping the airway passage in the nasopharynx, the oropharynx and the hypopharynx substantially free of occlusion.
2. An incremental mandibular advancement anti-snoring and obstructive sleep apnea preventing device (2) comprising an upper member adapted to engage the maxillary dentition of a human and a lower member adapted to engage the mandibulary dentition of a human, characterized in that the upper and lower members are resilient or mechanical hinged and one member (the mandibulary) is incrementally adjustable to the other (the maxillary), whereby the hinging is adapted to allow physiological movements of the lower jaw in the sagital plane while retaining a forward position of the lower jaw relative to the upper jaw and thereby keeping the airway passage in the nasopharynx, the oropharynx and the hypopharynx substantially free of occlusion.
3. An incremental mandibular advancement anti-snoring and obstructive sleep apnea preventing device (3) comprising an upper member adapted to engage the maxillary dentition of a human and a lower member adapted to engage the mandibulary dentition of a human, characterized in that the upper and lower members are resilient or mechanical hinged and one member (the maxillary) is incrementally adjustable to the other (the mandibulary), whereby the hinging is adapted to allow physiological movements of the lower jaw in the sagital plane while retaining a forward position of the lower jaw relative

to the upper jaw and thereby keeping the airway passage in the nasopharynx, the oropharynx and the hypopharynx substantially free of occlusion.

4. A device according to claim 1 in which the incremental mechanism is embedded in the bodies of the maxillary and mandibulary members.
5. A device according to claim 2 in which the incremental mechanism is embedded in the body of the mandibulary member.
6. A device according to claim 3 in which the incremental mechanism is embedded in the body of the maxillary member.
7. A device according to any of the claims 1-3 in which the incremental mechanism is made up of multiple stepwise "snap-on - snap-of" structures embedded in the bodies of either the upper maxillary or lower mandibulary bodies (members) or both at the same time.
8. A device according to any of the claims 1-3 in which the incremental mechanism is made up of multiple stepwise "snap-on - snap-of" structures attachable to the bodies (members) of either the upper maxillary or lower mandibulary bodies (members) or both at the same time.
9. A device according to claim 7 or 8 in which the multiple stepwise incremental "snap-on - snap-of" structures is made by male (positive) versus female (negative) parts of different forms such as round, square, hexagonal and so on, designed to engage with its corresponding opposite part of negative structural form.
10. A device according to ~~any of the~~ claim 9 in which the multiple stepwise incremental positive (male) snap-on structures are top carved (lobed) with variable numbers of segments.
11. A device according to ~~any of the claims~~ claim 9 ~~and~~ or 10 in which the multiple stepwise incremental negative (female) snap-on structures are lobed with variable numbers of segments.
12. A device according to any of the claims 1-3 wherein the incremental mechanism can be removed from the basic members of the device (upper maxillary, lower mandibulary and hinge), renewed, restored and reattached to the members again.

13. A device according to any of the claims 9-11 where the negative (female) structures of the member is completely punched out of either the maxillary or mandibulary member to correspond with the opposing member.

14. A device according to any of the claims 1-3 wherein the upper member is having an anterior wall adapted to be in contact with the facial surfaces of the incisors, canines and premolars of the upper jaw and lack lingual palatal walls to adapt to the palatal surfaces of the upper teeth, and a lower member having a posterior wall adapted to be in contact with the lingual surfaces of the incisors, canines and premolars of the lower jaw and lacking facial walls to engage with the facial surfaces of the lower teeth.

15. A device according to any of the preceding claims wherein the upper member and the lower member is made of a non-toxic plastics material which is a thermoplastic material which can be shaped to adapt to an individual dentition by moderate heating.

16. A device according to any of the claims 1-3 wherein the upper and lower members are integrated with each other through resilient hinges made of the same material as the upper and lower members.

17. A device according to any of the claims 1-3 wherein the hinge is located in the most dorsal part of the device being embedded in or resilient due to the material itself.

18. A device according to claim 16 or 17 in which the most dorsal part of the hinge is convex at the most posterior part and concave at the most anterior part of the hinge when situated in the patients mouth.

19. A device according to any of the claims 1-3 wherein the incremental mechanism is embedded in the maxillary middle most frontal part of the device closest to the teeth from left side premolar to right side premolar.

20. A kit comprising a device according to any of the preceding claims together with a temperature indicator adapted to indicate the temperature change to an elevated temperature at which the material of the device can be shaped individually.

21. A kit according to claim 20 with a heatable metal rod combined with an insulating hand piece for the use of locking the sliding incremental process by means of penetration both members at the desired forward positioned maxillary member relative to the mandibulary member.

22. A method of manufacturing the incremental mandibular advancement device according to any of the ~~claim~~ claims 1 through 21.