

VI CONGRESO INTERNACIONAL ODONTOLOGIA

XXVI CONGRESO NACIONAL

del año 2.000

TROMPOMANIPULADOR
FRONTAL DE USO
MULTIPLE.



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ZARAGOZA
7-12 JUNIO 1993
ESPAÑA

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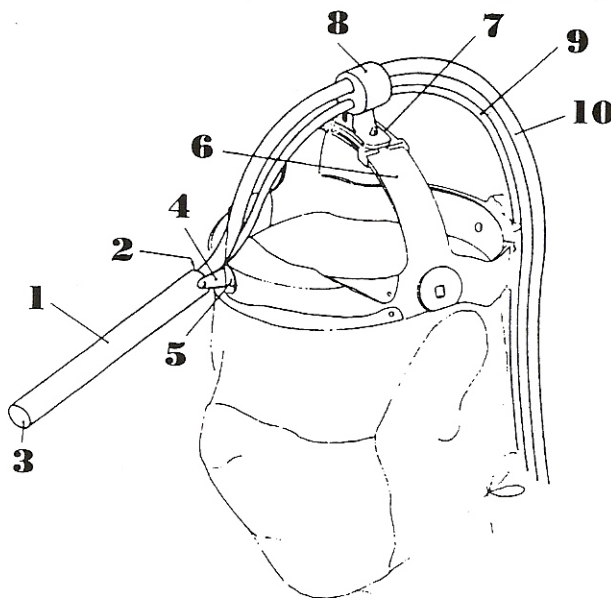


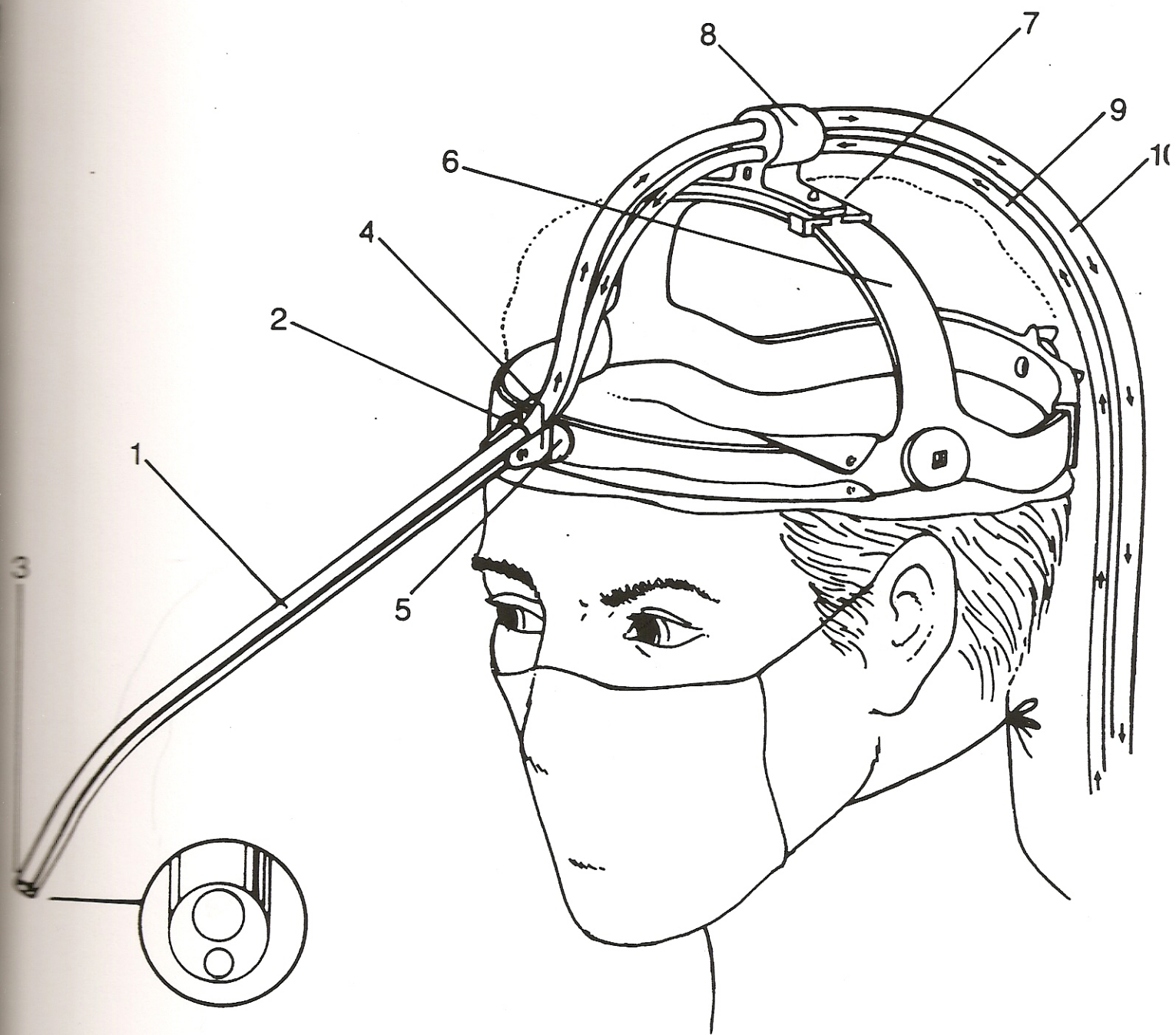
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RESUMEN

CIRUGIA ORAL

Se trata de un dispositivo médico-quirúrgico diseñado para ser posicionado sobre un casquete de tipo convencional o especialmente fabricado de forma tal que permite al especialista y/o a sus ayudantes el soporte de una serie de instrumentos y cánulas de diferente tipo para la aspiración, irrigación, iluminación, etc., de forma tal que el cirujano, el estomatólogo, el neurocirujano y otras especialistas y o profesionales disponen de esta manera de un miembro activo más con que ayudarse a la realización de sus trabajos. Presentamos el dispositivo en un Vídeo y en un póster.







FRONTAL TROMPOMANIPULATOR OF MULTIPLE USE,
A NEW TECHNIQUE

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INTRODUCTION

We have developed a frontal device in order to ease the surgeon's task and to increase his technical abilities; it provides the support, positioning, way through and handling of the tools currently used in some types of surgery, such as the ones for suction, irrigation, spray, ventilation, different light beams, fibroscopies, clotting, medical cameras, etc. and in this way the surgeon's hands can be free most of the time.

MATERIAL AND METHODS

The manipulator is essentially a tube that is threaded to a jointed device placed in a craneal frame, such as the ones used as luminous or optical support that can be so well adapted to the surgeon's head.

In the figure it can be seen the device to be used for suction, irrigation or/and surgical lamp.

The accesories to be used have to be properly chosen and sterilized; then they will be placed on the frontal manipulator and so the surgeon is able to use it according to his technical needs. In this way the surgeon has a third arm,

that sometimes can be multifunctional, with all the advantages derived from that, such as ergonomics and costs saving of a second surgeon. Quite often it is the assistant the one that controls and uses the trompomanipulator; in that way the surgeon can work precisely on the surgical problem.

1. Trompomanipulator itself.
2. Frontal opening of the trompomanipulator.
3. Active or distal opening of the trompomanipulator.
4. Trompomanipulator handle to be fixed to the frontal bracket.
5. Arm frontal bracket, fixed on the frontal frame.
6. Craneal frame, that supports and fixes all the different devices.
7. Bracket on the main frame.
8. Device to pass cables.
9. Glass fiber tubing (in this case).
10. Suction tubing.
11. Optic fiber.

(The trompomanipulator is designed to let pass the different technical devices according to the surgeon's needs, etc.)

(Fig. 1)

DISCUSSION

We think that as the procedure spreads, some more uses can be found; up till now the advantages have been clear enough and it provides a lot of help with the surgical work and the surgeon is more independent and can be more concentrated to better develop his techniques.

PROCEDURE PROTECTED UNDER PATENT.

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(19) ES	(11) NUMERO 9003513	(10) Y
(21)	(22) FECHA DE PRESENTACION 11 DIC 1990	



ESPAÑA

MODELO DE UTILIDAD

(30) PRIORIDADES:	(32) FECHA	(33) PAIS
(31) NUMERO		

(47) FECHA DE PUBLICIDAD	(51) CLASIFICACION INTERNACIONAL
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(54) TITULO DE LA INVENCIÓN TROMPOMANIPULADOR FRONTAL DE USO MULTIPLE
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(71) SOLICITANTE (S) D. FRANCISCO HERNANDEZ ALTEMIR D.N.I. 310.599

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