

- 1) **USA (Granted in June 2008).**
- 2) Canada.
- 3) **Mexico (Granted in August 2008).**
- 4) Japan.
- 5) **Israel (With Preliminary Approach of Grant).**
- 6) **South Korea (With Preliminary Approach of Grant).**
- 7) **China. (With Preliminary Approach of Grant).**

European Patent Office, covering above all the following countries:

- 8) Germany.
- 9) Great Britain.
- 10) France.
- 11) The Netherlands.
- 12) Italy.
- 13) Switzerland.
- 14) Spain.

The
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**The Director of the United States
Patent and Trademark Office**

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extensions.

A handwritten signature in black ink that reads 'Jon W. I. Dudas'. The signature is written in a cursive style with a large, stylized 'J' and 'D'.

Director of the United States Patent and Trademark Office



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(12) **United States Patent**
Hernández Pérez et al.

(10) **Patent No.:** **US 7,423,429 B2**
(45) **Date of Patent:** **Sep. 9, 2008**

(54) **APPARATUS AND ASSOCIATED METHOD THAT INTEGRATE THE MODALITIES OF DIAGNOSIS AND THERAPY TO TREAT, IN PRINCIPLE, PATHOLOGIES GENERICALLY IDENTIFIED AS CANCER AND HIV/AIDS**

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(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(2), (4) **Date:** **May 18, 2006**

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G01V 3/00 (2006.01)
A61B 5/055 (2006.01)

(52) **U.S. Cl.** **324/309; 324/310; 324/314;**
324/315; 324/318; 324/307; 600/411; 600/413;
600/422; 600/427; 600/428

(58) **Field of Classification Search** **324/300-322;**
600/407-435

See application file for complete search history.

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Primary Examiner—Brij Shrivastav

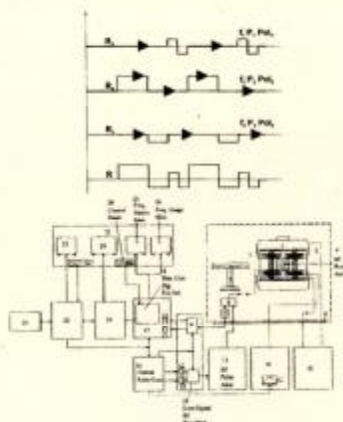
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(57) **ABSTRACT**

Diagnostic and Therapy apparatus and methods use non-ionizing radiations which are based on integration of nuclear magnetic resonance and radiation manipulation. Quantitative diagnostics integrate the following devices: manual control digital filter/selector (18), frequency matrix monitor (25), frequency image monitor (26), and control panel (28). Therapy integrates the following devices: resonating antenna for radio frequency (4), low radio frequency signal processor/modulator (10), radio frequency pulse amplifier (13) and central pulse control (16). Internal parameters of the emission, such as frequency, power and polarity are selectively manipulated to personalize the therapy and to significantly improve the levels of selectivity and/or differentiation of all the processes.

9 Claims, 11 Drawing Sheets





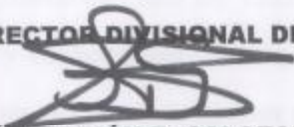
TÍTULO DE PATENTE NO. **259340**

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Denominación:	DISPOSITIVO DE RESONANCIA MAGNÉTICA
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IMPI	SOLICITUD
	Fecha de presentación internacional: 28 de Noviembre de 2003
Número: PA/a/2006/005112	PRIORIDAD
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	Número:
ESTA PATENTE CONCEDE A SU TITULAR EL DERECHO EXCLUSIVO DE EXPLOTACIÓN DEL INVENTO RECLAMADO EN EL CAPÍTULO REIVINDICATORIO Y TIENE UNA VIGENCIA IMPROPRORROGABLE DE <u>VEINTE AÑOS</u> CONTADOS A PARTIR DE LA FECHA DE PRESENTACIÓN INTERNACIONAL DE LA SOLICITUD, QUE ESTARÁ SUJETA AL PAGO DE LA TARIFA CORRESPONDIENTE.	

Fecha de expedición: 4 de agosto de 2008

EL DIRECTOR DIVISIONAL DE PATENTES


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