

Implantable Medical and Identification Systems

Intellectual Property Highlights:

- Implantable chips (integrated circuits in humans and animals)
- RFID system for medical, performance and ID applications
- Hand-held reading and writing devices
- Antenna and sensor claims

Summary

The assets for sale encompass United States patents 5,499,626 and 5,322,034 entitled "Individual Descriptive Record System" and "Livestock Record System," respectively. These are fundamental concept patents that cover RFID implantable device systems in humans and in animals (including pets and livestock). The claims address concepts for the implantable integrated circuits in the subject, the hand-held reader and recorder devices used to communicate with the implant, and the antennas, as well as the systems and methods for medical and performance monitoring and identification. Each of the patents include a claim on sensors (health monitoring system) embedded in the implantable devices.

The technology's applications range from performing the simple task of identifying a subject (for example pet ID systems) all the way to realizing a sophisticated health history, sensing and monitoring system (for example an implanted human glucose meter). The use of such devices has exploded in recent years due to several factors but in particular to global standardization efforts and rapidly increasing US interest in the technology. For animal implants, standards ISO 11784, 11785 and 14223 have been adopted by ANSI (American National Standards Institute). In addition, the United States Department of Agriculture's (USDA) National Animal Identification System (NAIS) established a goal of tagging (implants and otherwise) 100% of all cattle in the US (97 Million head in 2007) in order to "protect the health of US livestock." Furthermore, the implanting of pets is on the rise and will continue to grow due to the wide adoption of the detection devices at pet shelters and veterinary clinics. According to a July 2008 USDA report, up to 5% of the 130 million cats and dogs are already implanted. In terms of humans, the FDA (Food and Drug Administration) has already approved chip implants for medical usages. The applications for Alzheimer patients and diabetics lead the way for the mass adoption of the technology. It is estimated that the implantable chip market over the next 2-3 years will be a multi-billion dollar market.

Market Research and Data

A market analysis of current and future use and revenue as well as a study highlighting potential infringing products already in the marketplace can be found at:

http://www.trachip.com/TraCHip_Patents/TraCHip_Patents_Overview_Public_081101.pdf

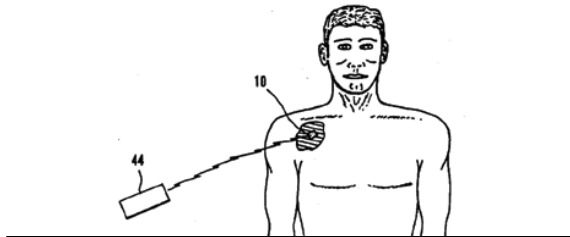
A confidential detailed infringement analysis is also available. Interested parties should contact TraCHip directly.

Forward Citation Samples

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| • CTB IP, Inc. | • Micro Beef Technologies, Ltd. | • Vulcan Patents LLC |
| • Electronic Data Holdings Limited | | |

US 5,499,626

Individual descriptive record system



Inventors

Richard L. Willham Robert J. Weber
Marwan M. Hassoun

Issue Date

March 19, 1996

Filing Date

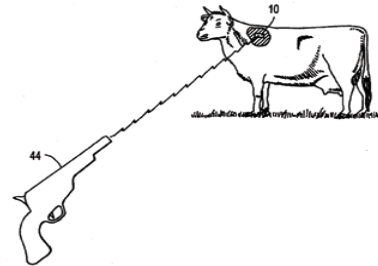
May 1, 1992

Some Key Elements of Claims

1. Individual descriptive record system; an **implantable programmable** electronic identification and data storage module carried with an individual; storing identifying data unique to the individual; storing and processing cumulative descriptive data; means for receiving and transmitting said identifying and descriptive data; power source; means for minimizing power consumption by substantially removing power to said module when it is not accessed; **reading and recording device**; read, add, or update data.
2. Health and medical information about the individual.
4. and 5. **Wake-up circuitry; Portable, hand-held.**
6. **Permanently storing fixed individual identification data**, means for permanently storing said cumulative descriptive data, means for entering, revising, adding, and maintaining said descriptive data; means for displaying information transmitted to or received from said module; means for transmitting information to a computer and means for storing information received from a computer.
7. **Computer**; means for **permanently storing** data.
10. **Electronic integrated device.**
11. **Health monitoring system.**
12. **Antenna means** for transmitting and receiving.
15. **Human readable visual display.**
16. **Display screen** mounted on the upper surface.
18. Reading and recording device is powered by a **rechargeable battery.**
22. **Method of maintaining individual descriptive records** for identifying and monitoring individuals.
31. **Individual medical record system.**

US 5,322,034

Livestock record system



Inventors

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Issue Date

June 21, 1994

Filing Date

May 1, 1992

Some Key Elements of Claims

1. Identifying and monitoring individual animals; an **implantable programmable** electronic identification and data storage module carried with an animal; self-powered; means for storing identifying data unique to the animal; means for storing and processing cumulative performance data; recorded over the lifetime; means for receiving and transmitting; power source; means for minimizing power consumption by substantially removing power to said module when it is not accessed; **a reading and recording device** for transmitting data to or receiving data.
2. **Assuring the integrity** of the identifying and performance data.
3. **Wake-up circuitry.**
4. **Permanently storing fixed animal identification**; means for entering, revising, adding, and maintaining said performance data; **means for displaying information** transmitted to or received from said module; means for receiving information to a computer.
5. **Computer means**; transmitting and receiving data from said reading and recording means.
7. **Central data center.**
8. **Reading and recording device is portable.**
10. **Human readable visual display.**
11. **Electronic integrated device.**
12. **Health monitoring system.**
13. **Antenna means** for transmitting and receiving.
22. **Method of maintaining livestock records** for identifying and monitoring individual animals.