



FOR IMMEDIATE RELEASE
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ORTHO-TAG ANNOUNCES NEW PATENT
SYSTEM AND METHOD FOR STORING INFORMATION
RELATING TO A MEDICAL IMPLANT DEVICE

PITTSBURGH, PA - Ortho-tag Inc., an innovator of technologies that advance the wireless communication, secure data exchange, and diagnostic functionality of medical implants, including nanosensors, announces that the company received additional intellectual property for its "Ortho-tag" system.

US 9,700,234 was issued by the United States Patent and Trademark Office on **July 11, 2017** titled *System And Method For Storing Information Relating To A Medical Implant Device*. The new patent describes a method of identifying medical implants in the human body and incorporating x-rays that can be labeled with specific technical descriptions of the implanted medical devices and patient medical records. It also includes interaction with nanosensors capable of monitoring the tissue environment around implants to detect infections and other conditions.

"The technologies being developed by Ortho-tag are pioneering a new frontier in healthcare," explained New Jersey based orthopaedic surgeon and inventor Lee Berger, MD, CEO of Ortho-tag. These technologies, developed by Dr. Berger and Dr. Marlin Mickle at the University of Pittsburgh, will serve a critical role in the future of smart implants and digital medical records as the standard platform in which data is communicated and stored through the human body.

A research partnership between Ortho-tag and the University of Pittsburgh was established in 2011 to develop technical solutions that are applicable to healthcare markets.

Ortho-tag's collaboration with the University of Pittsburgh RFID Center of Excellence and the University of Pittsburgh Department of Biochemistry established the proprietary "Ortho-tag" system consisting of an implantable "tag" or "wearable device" and touch probe that utilizes volume conduction of energy and the natural conductivity of body tissue. This method of communication enables health care providers the ability to securely program, reprogram, and obtain real-time access (directly from the patient) to vital in-body information.

An Ortho-tag can also host multiple nanosensors to monitor the biological environment around an implant. Ortho-tag biosensors can assist in non-invasively detecting (in real-time) post-operative prosthetic infections by measuring changes in tissue temperature, pH, and other indicating biomarkers, including, in the future, the identification of specific microorganisms.

Ortho-tag has exclusive licenses and additional patents issued jointly with the University of Pittsburgh's Department of Innovation Technology that were achieved through its research partnership, including solutions to powering implantable tags and biosensors without the use of an internal battery, overcoming signal interference with metallic implants, incorporating nanosensors, and re-programmable high-capacity data storage capability on implantable tags.

For more information, please email info@ortho-tag.com and visit www.ortho-tag.com.

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