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July 17, 2009

Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, SW
Washington, D.C. 20554

Re: Amendment of Parts 2 and 95 of the Commission's Rules to Provide Additional Spectrum for the Medical Device Radiocommunication Service in the 413-457 MHz Band (ET Dkt. No. 09-36; RM-11404)

Dear Ms. Dortch:

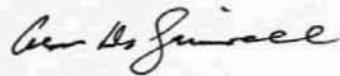
I would like to petition the FCC to adopt rules permitting the operation of medical micro-power network ("MMN") devices in the 413-457 MHz band.

I am a professor of physiology at UCLA and am aware of the MMN devices that the Alfred Mann Foundation is developing, and the Foundation's history of creating break-through devices for a variety of important medical uses, such as insulin infusion pumps, glucose sensors, implantable stimulators, cochlear implants, etc. They are now developing implantable micro-stimulators and recording devices that can, in principle, act in a coordinated fashion to restore sensation, mobility, and balance to individuals that have suffered from stroke, spinal injury, or loss of limb. The devices the Foundation is developing are designed to operate as replacements for the normal nervous system, in extreme cases as a virtual artificial nervous system. These devices can be used to treat a broad range of injuries and conditions, including stroke, severe spinal cord and brain injuries, debilitating disorders such as cerebral palsy and osteoporosis, and more common afflictions such as arthritis and headache. To do so, however, they need the advantages afforded by availability of the 413-457 MHz frequency band.

MMN devices offer a novel wireless solution to significant limitations in all presently available technologies. They provide a safer, less invasive, more convenient, and more effective treatment option than existing alternatives.

Because the benefits offered by MMN devices are immeasurable and cannot be replicated by other existing technologies, I urge the Commission to act expeditiously to adopt the rules necessary to foster the development of this extraordinary technology.

Sincerely,

A handwritten signature in cursive script, appearing to read "Alan D. Grinnell".

Alan D. Grinnell
Distinguished Professor