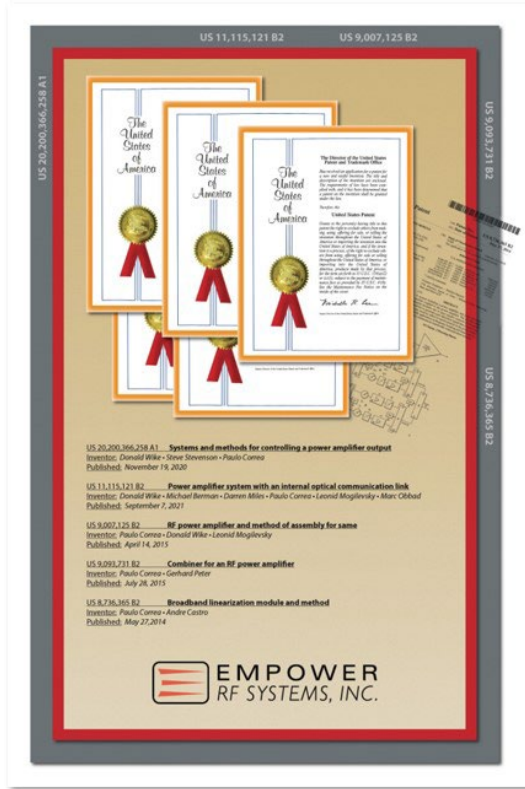


Empower RF Systems, Inc. Press Materials
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Empower RF Systems Announces New U.S. Patent Issuance

US 11,115,121 B2

Power Amplifier System with an Internal Optical Communication Link

Inglewood, CA – 02/15/2022 –

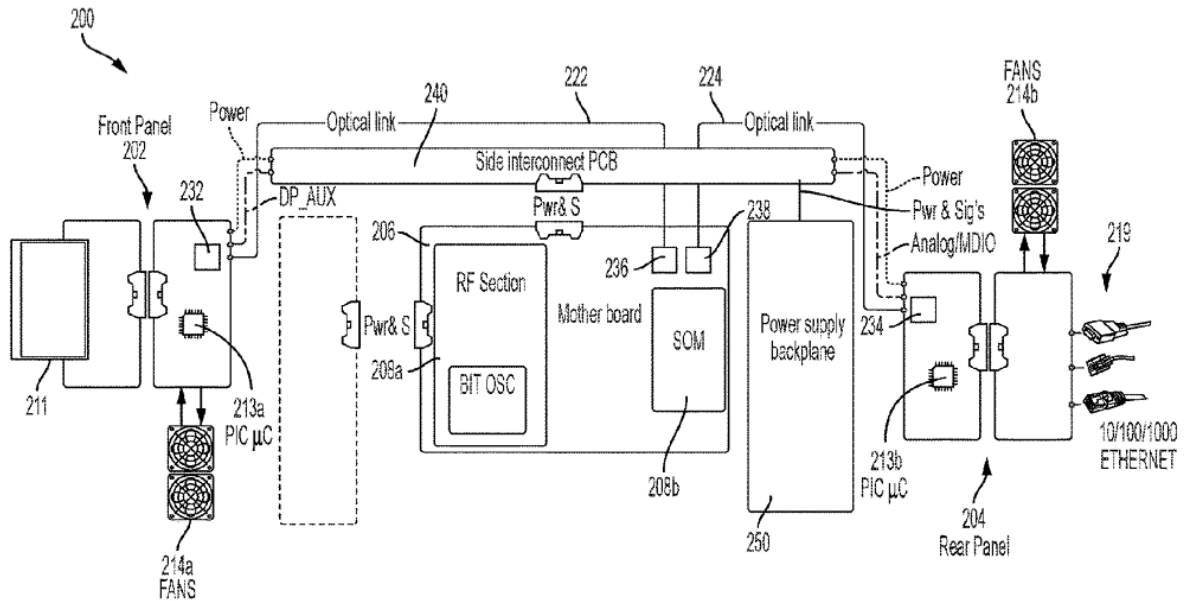
Empower RF Systems, Inc has added to its growing IP portfolio with the announcement today of a United States Patent and Trademark Office (USPTO) awarded patent entitled “Power Amplifier System with an Internal Optical Communication Link”.

As described in the Abstract, the patent is awarded for “techniques for implementing an internal optical communication link in a power amplifier system that includes a panel, an optical link, and a controller. The controller is configured to manage operation of the power amplifier system and is coupled to the optical link via a second optical interface. The controller communicates with each of the plurality of signal endpoints over the optical link.”

This patent is an important departure from (and improvement over) the industry’s current, but decades old, wired analog interfaces with a system architecture that utilizes high speed fiber optic digital communications for sensing and control. “If you look at traditional amplifier systems, you’re going to find multiple large wiring harnesses containing 30 or more wires in a bundle.” said Don Wike, Senior System Engineer at Empower RF Systems. “We’re able to carry things like Display Port, USB, SPI, Ethernet, and general purpose I/O into a small fiber lane that provides higher power density while offering ease of assembly. “

Another significant benefit is the elimination of EM emission and susceptibility of the wired conductors it replaces. Don noted “The fiber optics gives us a large benefit packing very high power into a small package. The fiber optics comes into play because of the EMI immunity, that’s really where it shines.”

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Empower RF Systems is the technological leader in RF & microwave power amplifier solutions for EW, Radar, Satcom, Threat Simulation, Communications, and Product Testing. Our air and liquid cooled amplifiers incorporate the latest semiconductor and power combining technologies and with a patented architecture we build the most sophisticated and flexible COTS system amplifiers in the world. Solutions range from tens of watts to hundreds of Kilowatts and includes basic PA modules to scalable rack systems. Operating globally and continuing to expand our technology resources, Empower RF has recorded impressive growth since its inception. Our customer base includes market leading OEMs and government agencies with an array of demanding performance requirements.

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