



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H03F 3/68, 1/14	A1	(11) International Publication Number: WO 97/48181 (43) International Publication Date: 18 December 1997 (18.12.97)
(21) International Application Number: PCT/US97/06163 (22) International Filing Date: 16 April 1997 (16.04.97) (30) Priority Data: 08/662,573 13 June 1996 (13.06.96) US (71) Applicant: MOTOROLA INC. [US/US]; 1303 East Algonquin Road, Schaumburg, IL 60196 (US). (72) Inventors: LEFFEL, Michael, David; 538 Silver Aspen Circle, Crystal Lake, IL 60014 (US). LOUIS, Edward, Vincent; 7N793 Northern Dancer Lane, St. Charles, IL 60178 (US). MILLER, Douglas, Edward; 1117 Country Club Road, Lake Zurich, IL 60047 (US). OBERMANN, Mark, G.; 6713 Forestview Lane, Niles, IL 60714 (US). AVICOLA, Timothy, Mark; 312 Country Lane, Algonquin, IL 60102 (US). (74) Agents: MADDOX, Donna, Rogers et al.; Motorola Inc., Intellectual Property Dept., 1303 East Algonquin Road, Schaumburg, IL 60196 (US).		(81) Designated States: AU, CA, JP, KR, SG, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report.

(54) Title: POWER DELIVERY SYSTEM AND METHOD OF CONTROLLING THE POWER DELIVERY SYSTEM FOR USE IN A RADIO FREQUENCY SYSTEM

(57) Abstract

A power delivery system (500) including a power splitter (502), a plurality of power amplifier modules (508) responsive to the power splitter (502), a power combiner (504), and a gateway controller (506) is provided. Each of the plurality of power amplifier modules (508) includes an input switch (520), a variable attenuator (524), an RF power amplifier (526) responsive to the variable attenuator (524) and the input switch (520), an output switch (530) responsive to the RF power amplifier (526), and an alarm detector (532) for indicating an alarm condition of the RF power amplifier (526). The power combiner (504) is responsive to the plurality of power amplifier modules (508), and the gateway controller (506) is in communication with each of the plurality of power amplifier modules (508).

