

Patents

U.S. Patents

- [1] T. S. Rappaport, "Tunable Discone Antenna," granted July 25, 1989, U.S. Patent 4,851,859.
- [2] T. S. Rappaport, V. Fung, M. D. Keitz, "Computer-based Bit Error Simulation for Digital Wireless Communications," granted August 3, 1993, U.S. Patent 5,233,628.
- [3] T. S. Rappaport, J. C. Liberti, S. L. McCulley, M. D. Keitz, "Real-Time Cellular and Paging System Monitor," granted September 19, 1995, U.S. Patent 5,451,839.
- [4] T. S. Rappaport , R. R. Skidmore, "Method and System for Automated Optimization of Antenna Positioning in 3-D," granted November 13, 2001, U.S. Patent 6,317,599.
- [5] R. Skidmore, T. S. Rappaport, "System for Creating a Computer Model and Measurement Database of a Wireless Communication Network," granted August 27, 2002, U.S. Patent 6,442,507.
- [6] T. S. Rappaport , R. R. Skidmore, "Method and System For Managing a Real Time Bill of Materials," granted December 10, 2002, U.S. Patent 6,493,679.
- [7] T. S. Rappaport , R. R. Skidmore, "System For the Three-Dimensional Display of Wireless Communication System Performance," granted December 24, 2002, U.S. Patent 6,499,006.
- [8] T. S. Rappaport, R. R. Skidmore, E. Reifsneider, "Method and system for Designing or Deploying a Communications Network which Considers Frequency Dependent Effects," granted September 23, 2003, U.S. Patent 6,625,454.
- [9] T. S. Rappaport, R. R. Skidmore, "Method and System for a Building Database Manipulator," granted April 13, 2004, U. S. Patent 6,721,769.
- [10] T. S. Rappaport, R. R. Skidmore, "Method and System for a Building Database Manipulator," granted February 1, 2005, U.S. Patent 6,850,946.
- [11] R.R. Skidmore, T.S. Rappaport, "Method for Creating a Computer Model and Measurement Database of a Wireless Communications Network," granted April 5, 2005, U.S. Patent 6,876,951.
- [12] T.S. Rappaport, B.T. Gold. R.R. Skidmore, "System, Method and Apparatus for Portable Design, Deployment, Test and Optimization of a Communications Network," granted November 29, 2005, U.S. Patent 6,971,063.
- [13] T.S. Rappaport, RR. Skidmore, B. Henty, "System and Method for Design, Tracking, Measurement, Prediction and Optimization of Data Communications Networks," granted December 6, 2005, U.S. Patent 6,973,622.
- [14] T.S. Rappaport, R.R. Skidmore, "Textual and graphical demarcation of location from an environmental database, and interpretation of measurements including descriptive metrics and qualitative values," granted March 28, 2006, U.S. Patent 7,019,753.
- [15] T.S. Rappaport, R.R. Skidmore, "Method and system for analysis, design, and optimization of communication networks," granted April 25, 2006, U.S. Patent 7,035,642.

- [16] T.S. Rappaport, R.R. Skidmore, P. Sheethalnath, "Method and system for automated selection of optimal communication network equipment model, position, and configuration," granted May 30, 2006, U.S. Patent 7,055,107.
- [17] T.S. Rappaport, R.R. Skidmore, E. Reifsneider, "Method and system for designing or deploying a communications network which considers component attributes," granted August 1, 2006, U.S. Patent 7,085,697.
- [18] T.S. Rappaport, R.R. Skidmore, "System and method for measuring and monitoring wireless network performance in campus and indoor environments," granted August 22, 2006, U.S. Patent 7,096,160.
- [19] T.S. Rappaport, R.R. Skidmore, "Method and system for designing or deploying a communications network which allows simultaneous selection of multiple components," granted August 22, 2006, U.S. Patent 7,096,173.
- [20] T.S. Rappaport, R.R. Skidmore, "Method and system for analysis, design, and optimization of communication networks," granted December 26, 2006, U.S. Patent 7,155,228.
- [21] T.S. Rappaport, R.R. Skidmore, P. Sheethalnath, "Method and system for modeling and managing terrain, buildings, and infrastructure," granted January 16, 2007, U.S. Patent 7,164,883.
- [22] T.S. Rappaport, R.R. Skidmore, E. Reifsneider, "Method and system, with component kits for designing or deploying a communications network which considers frequency dependent effects," granted January 30, 2007, U.S. Patent 7,171,208.
- [23] T.S. Rappaport, R.R. Skidmore, "Method and system for displaying network performance, cost, maintenance, and infrastructure wiring diagram," granted July 10, 2007, U.S. Patent 7,243,054.
- [24] T.S. Rappaport, R. Skidmore, B. Gold. "System and method for efficiently visualizing and comparing communication network system performance," granted July 17, 2007, U.S. Patent 7,246,045.
- [25] T.S. Rappaport, R. Skidmore, B. Gold. "System and method for efficiently visualizing and comparing communication network system performance," granted October 23, 2007, U.S. Patent 7,286,971.
- [26] T.S. Rappaport, R.R. Skidmore, "System and method for indicating the presence or physical location of persons or devices in a site specific representation of a physical environment," granted November 13, 2007, U.S. Patent 7,295,119.
- [27] T.S. Rappaport, R. Skidmore, "System and method for automated placement or configuration of equipment for obtaining desired network performance objectives," granted November 13, 2007, U.S. Patent 7,295,960.
- [28] T.S. Rappaport, R.R. Skidmore, "System for the three-dimensional display of wireless communication system performance," granted November 20, 2007, U.S. Patent 7,299,168.
- [29] T.S. Rappaport, R.W. Heath, Jr, "Wireless network system and method," granted February 5, 2008, U.S. Patent 7,328,033.
- [30] T.S. Rappaport, D. Altounian, "Device and method for wireless communications selection and control," granted October 7, 2008, U.S. Patent 7,434,076.
- [31] T.S. Rappaport, R. Skidmore, B. Henty, "Textual and graphical demarcation of location, and interpretation of measurements," granted August 11, 2009, U.S. Patent 7,574,323.

- [32] T.S. Rappaport, R. Skidmore, "Method and system for generating a real time bill of materials and evaluating network performance," granted September 29, 2009, U.S. Patent 7,596,518.
- [33] T.S. Rappaport, "Broadband repeater with security for ultrawideband technologies," granted March 9, 2010, U.S. Patent 7,676,194.
- [34] Over 70 other US and International patents applied for and pending.