United States Patent [19] Christian et al. TIME DIVISION MULTIPLE ACCESS COMMUNICATIONS SYSTEM [75] Inventors: J. Robert Christian, Oceanport; Louis C. Poli, Hazlet, both of N.J. The United States of America as [73] Assignee: represented by the Secretary of the Army, Washington, D.C. [21] Appl. No.: 566,767 Dec. 29, 1983 [22] Filed: [51] Int. Cl.⁴ H04J 3/16; H04J 3/06; H04B 1/00; H04B 7/00 U.S. Cl. 370/95; 370/104; 455/56 455/56, 53 [56] References Cited

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[45]	Date of Patent:	Oct. 22, 1985	

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Primary Examiner—Douglas W. Olms
Assistant Examiner—Frank M. Scutch, III
Attorney, Agent, or Firm—Anthony T. Lane; Jeremiah
G. Murray; Edward Goldberg

[57] ABSTRACT

A covert line of sight time division multiple access communications system comprised of a plurality of geographically separated transceivers consisting of identical hardware and capable of operating either as a master station or a slave station, and when desirable as a repeater station. The system operates with a non-committed master station operating within a predetermined power circle of operation whereby multiple slave stations and/or repeaters communicate with each other by way of the master station in a one half duplex mode at a single frequency in the millimeter wave frequency range between 54 and 58 GHz.

13 Claims, 10 Drawing Figures

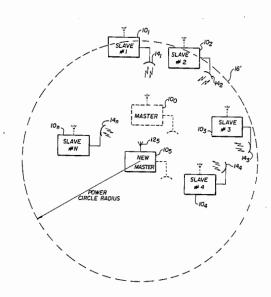




FIG.I

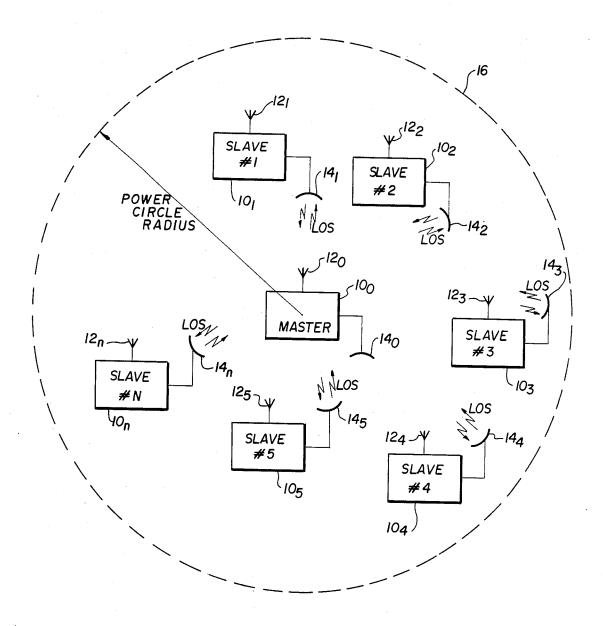
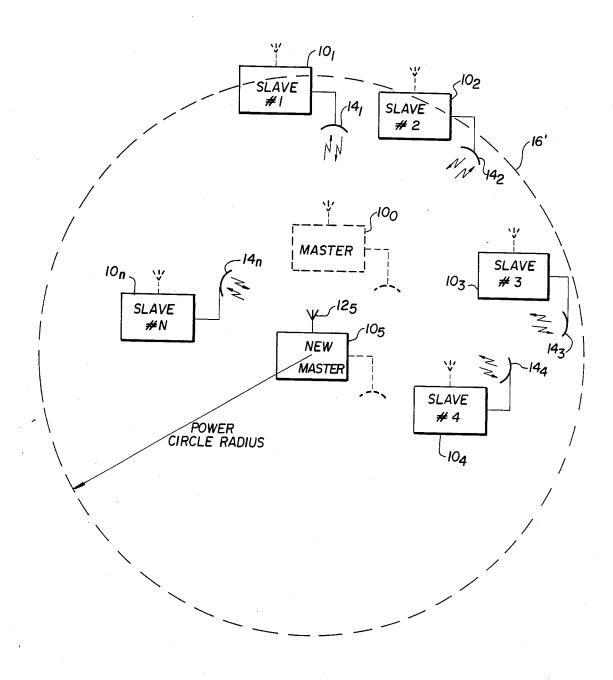
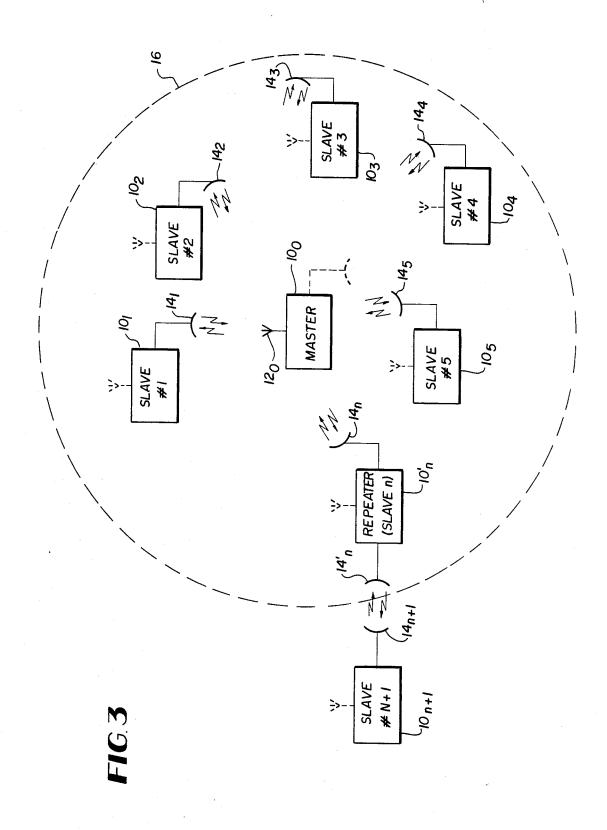
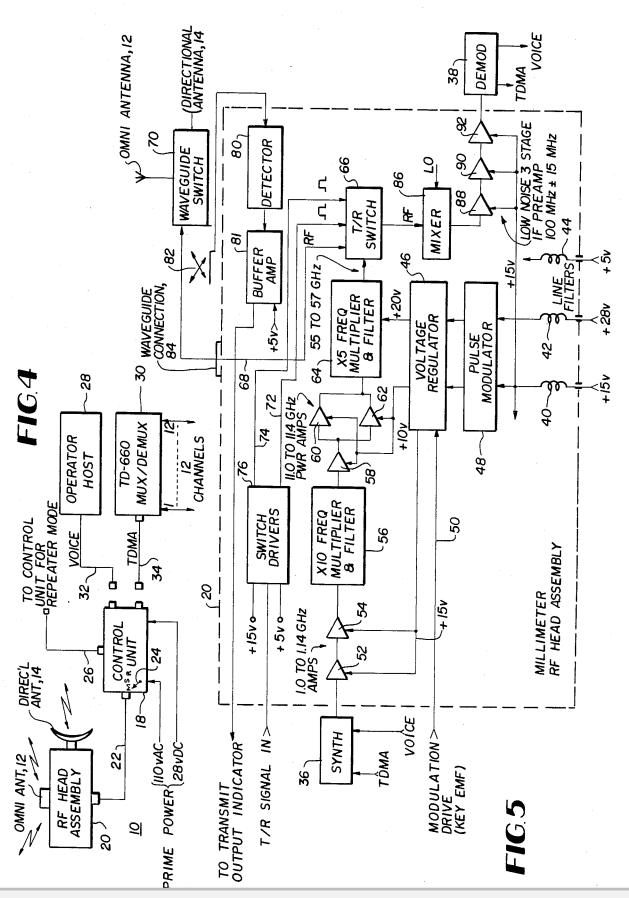


FIG.2









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