



US006175737B1

(12) **United States Patent**
Kao

(10) **Patent No.:** **US 6,175,737 B1**
(45) **Date of Patent:** ***Jan. 16, 2001**

(54) **METHOD AND APPARATUS FOR WIRELESS COMMUNICATIONS FOR BASE STATION CONTROLLERS**

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(*) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.

(21) Appl. No.: **08/751,520**

(22) Filed: **Nov. 15, 1996**

(51) Int. Cl.⁷ **H04Q 7/22; H04Q 7/30**

(52) U.S. Cl. **455/447; 455/560; 455/562**

(58) Field of Search **455/422, 447, 455/554, 560, 561, 562**

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(57) **ABSTRACT**

A cellular communication system having a plurality of wireless in-band channels and having a plurality of cells with a plurality of mobile stations in each cell where a base station (BTS) is the interface between mobile stations and a base station controller (BSC). The base station controller monitors and controls one or more base stations. A wireless trunk is established between the base station and the base station controller using selected ones of the allocated channels otherwise available for mobile station communications.

26 Claims, 9 Drawing Sheets

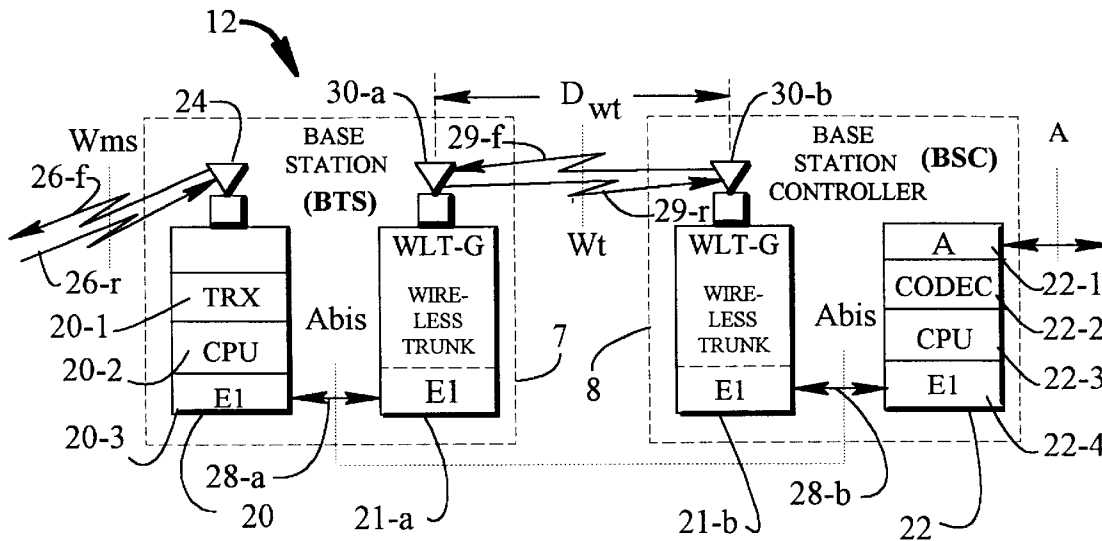
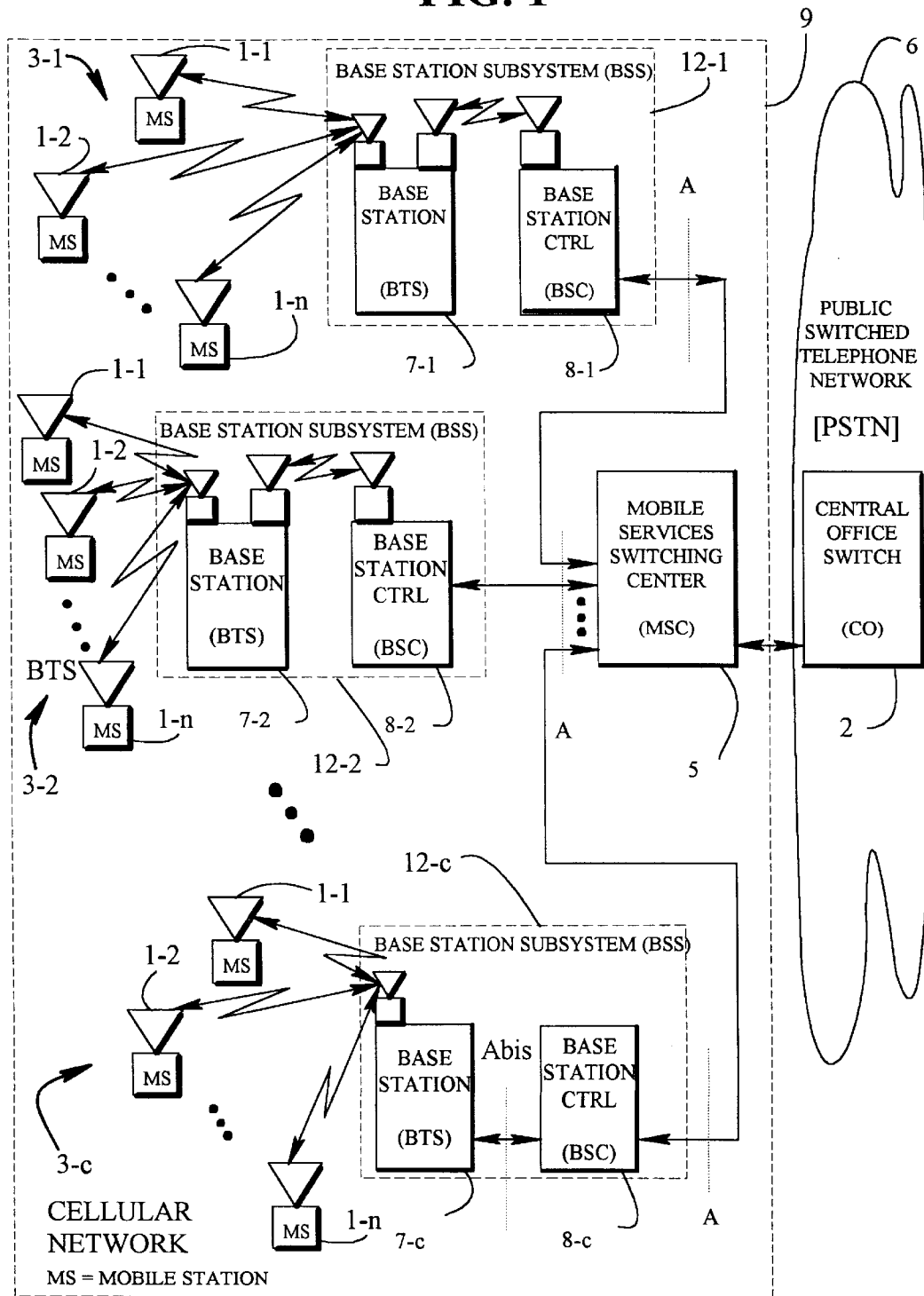
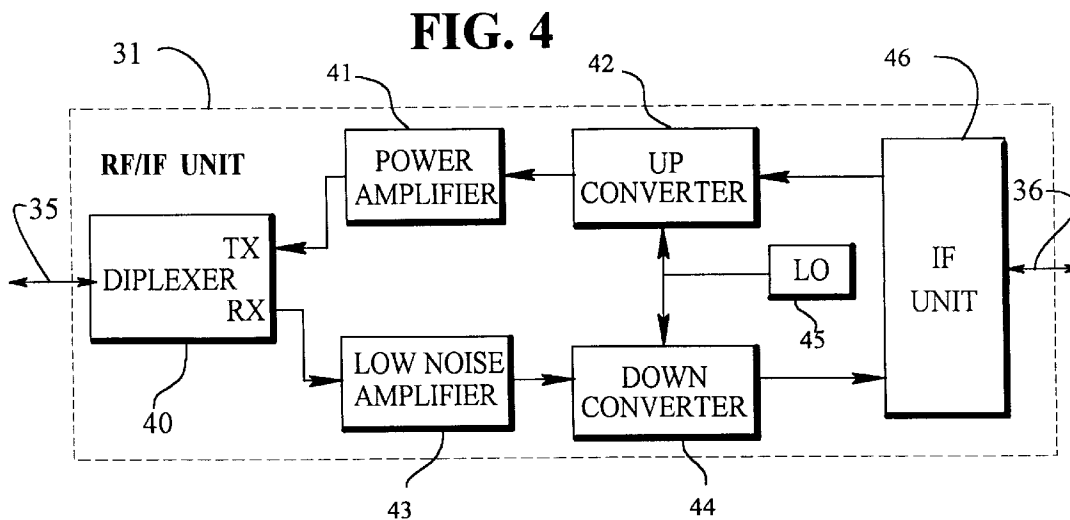
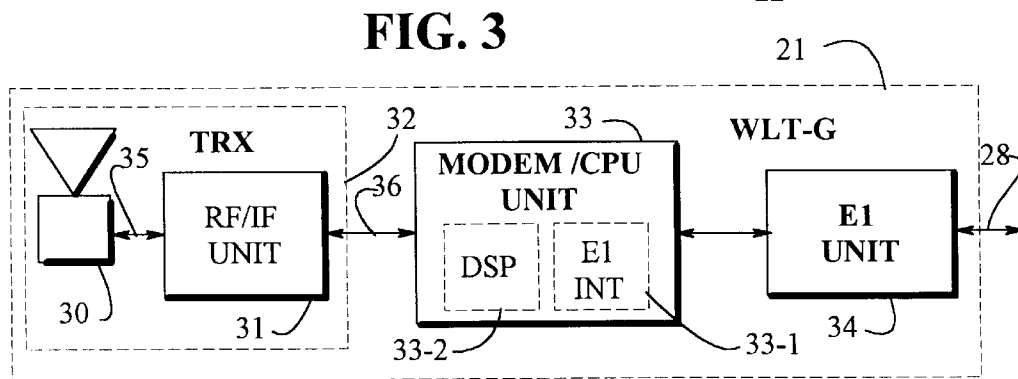
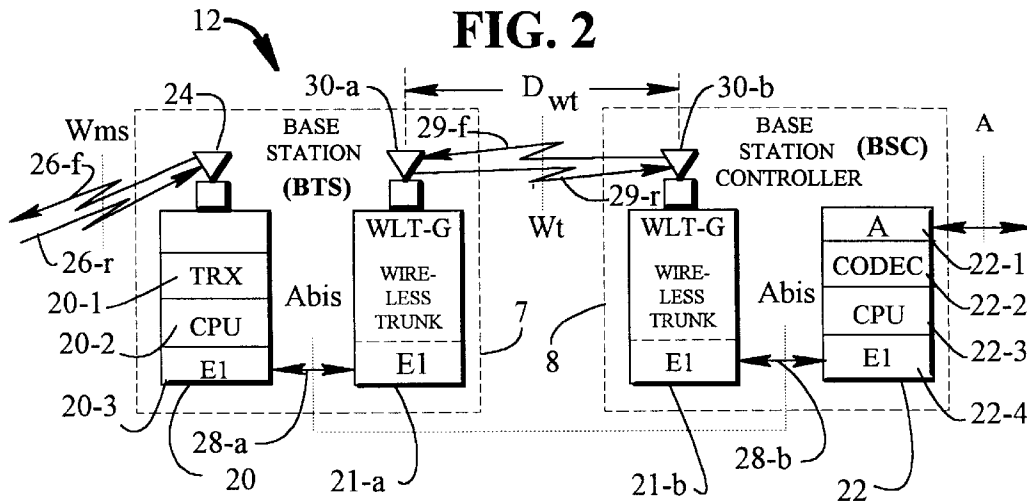


FIG. 1





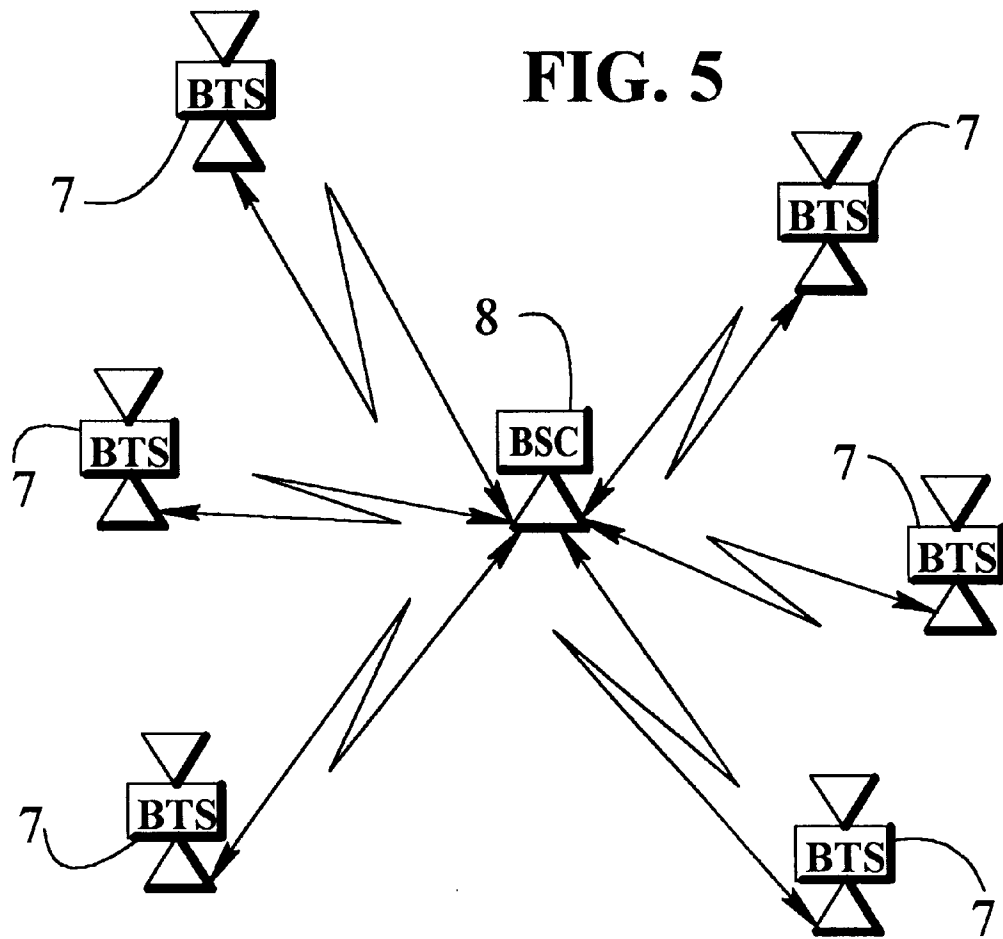
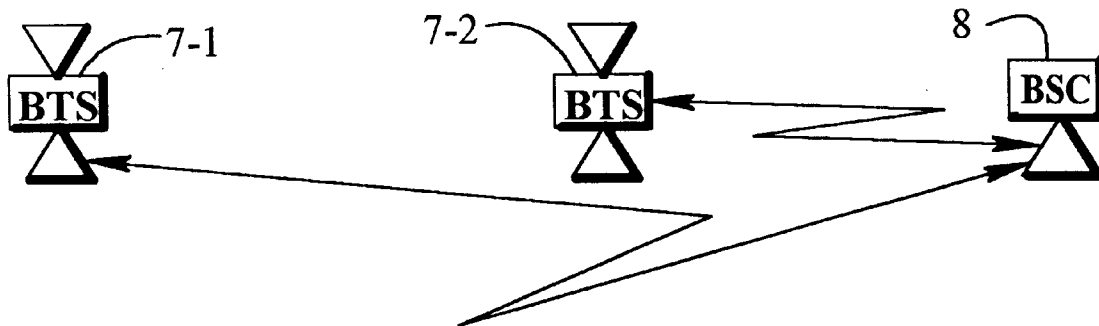
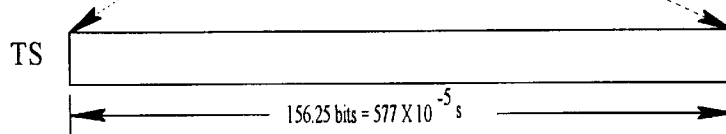
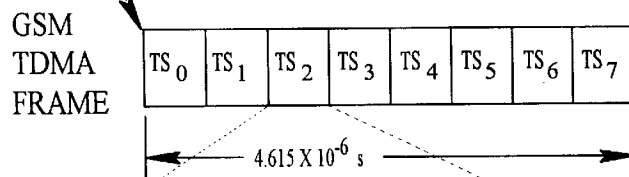
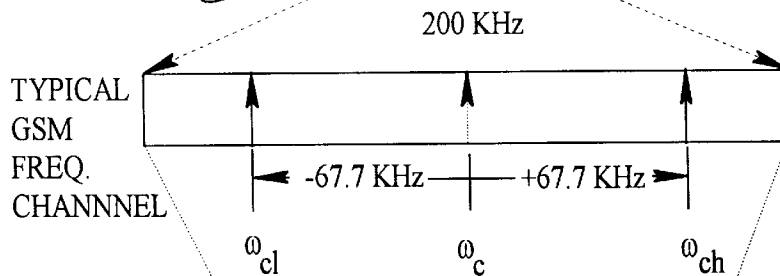
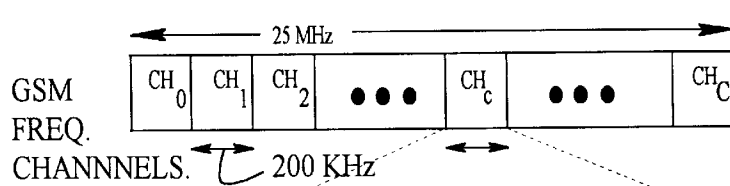
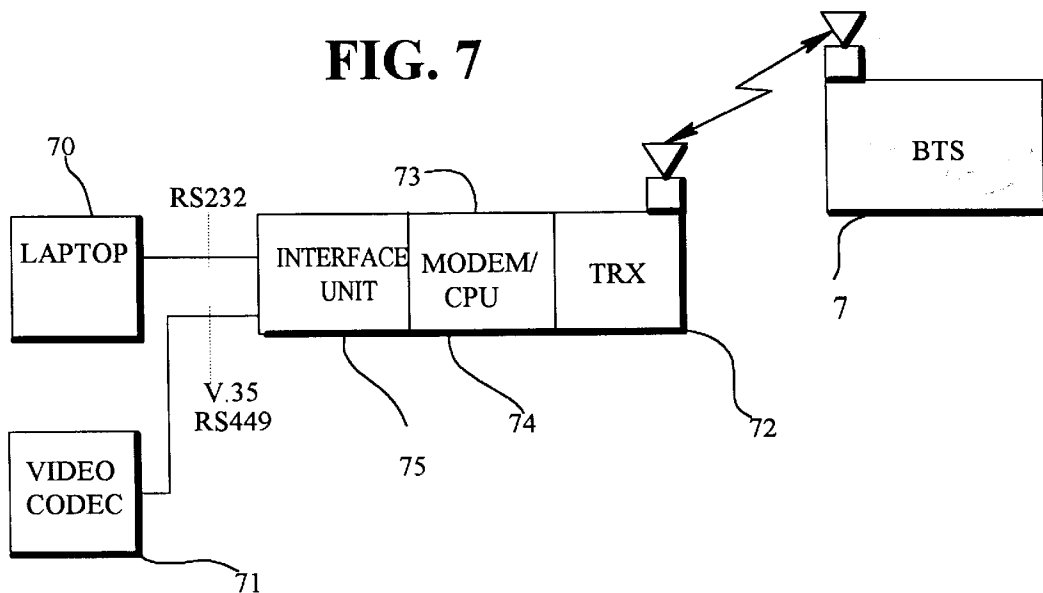


FIG. 6





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