



US005355374A

United States Patent [19]
Hester et al.

[11] **Patent Number:** **5,355,374**
[45] **Date of Patent:** **Oct. 11, 1994**

- [54] **COMMUNICATION NETWORK WITH DIVISIBLE AUXILLIARY CHANNEL ALLOCATION**
- [75] **Inventors:** Phillip Hester, Indian Harbour Beach; William Highsmith; Don McDaniel, both of Indialantic, all of Fla.; Alan Lusk, Dallas, Tex.
- [73] **Assignee:** Scientific-Atlanta, Inc., Atlanta, Ga.
- [21] **Appl. No.:** 165,830
- [22] **Filed:** Dec. 14, 1993

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Attorney, Agent, or Firm—Banner, Birch, McKie & Beckett

[57] **ABSTRACT**

A communication network having a master and a plurality of remotes, these remotes supporting a plurality of co-services, in which access to inbound frequencies among the remotes is shared. When a need by a remote for an extraordinary amount of bandwidth is detected, a reserved spillover frequency from a set of frequencies is reserved for that remote. This bandwidth is reallocated when the need for extraordinary bandwidth for that remote has ended.

9 Claims, 6 Drawing Sheets

Related U.S. Application Data

- [62] Division of Ser. No. 880,209, May 8, 1992, abandoned.
- [51] **Int. Cl.⁵** **H04J 3/22**
- [52] **U.S. Cl.** **370/84; 370/95.1; 455/54.2**
- [58] **Field of Search** 455/49.1, 53.1, 54.2, 455/68; 379/58, 63; 370/69.1, 84, 95.1, 95.3; 340/825.03, 825.07, 825.54

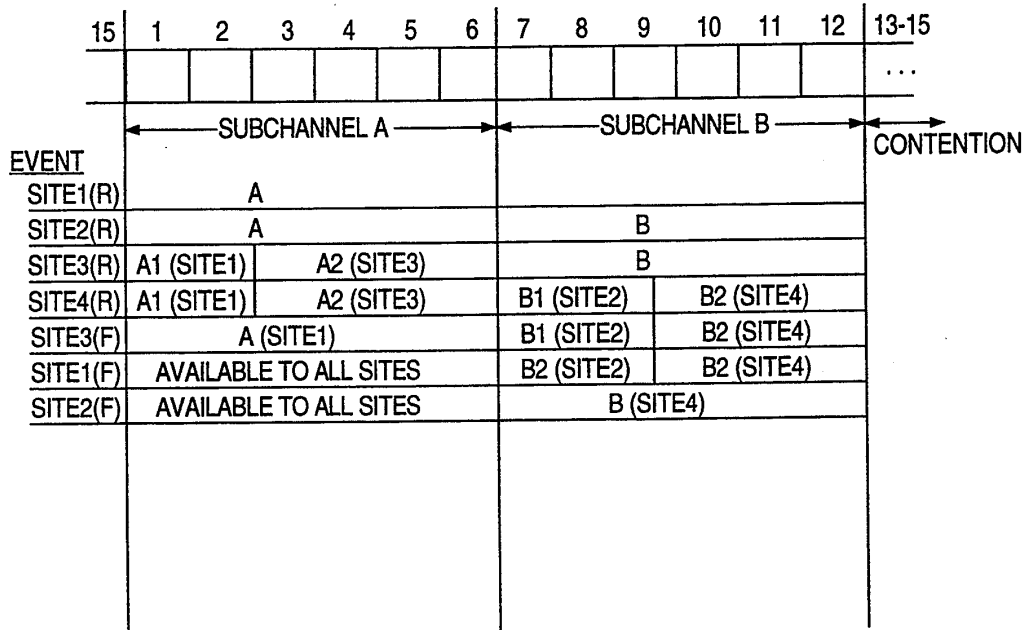


FIG. 1

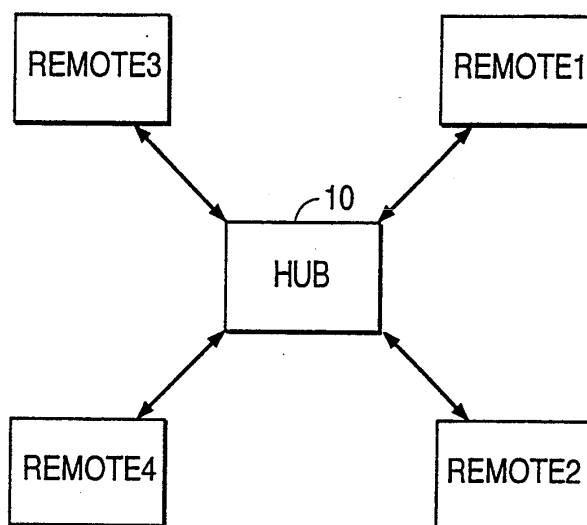


FIG. 4

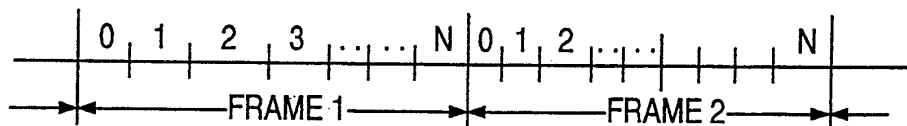
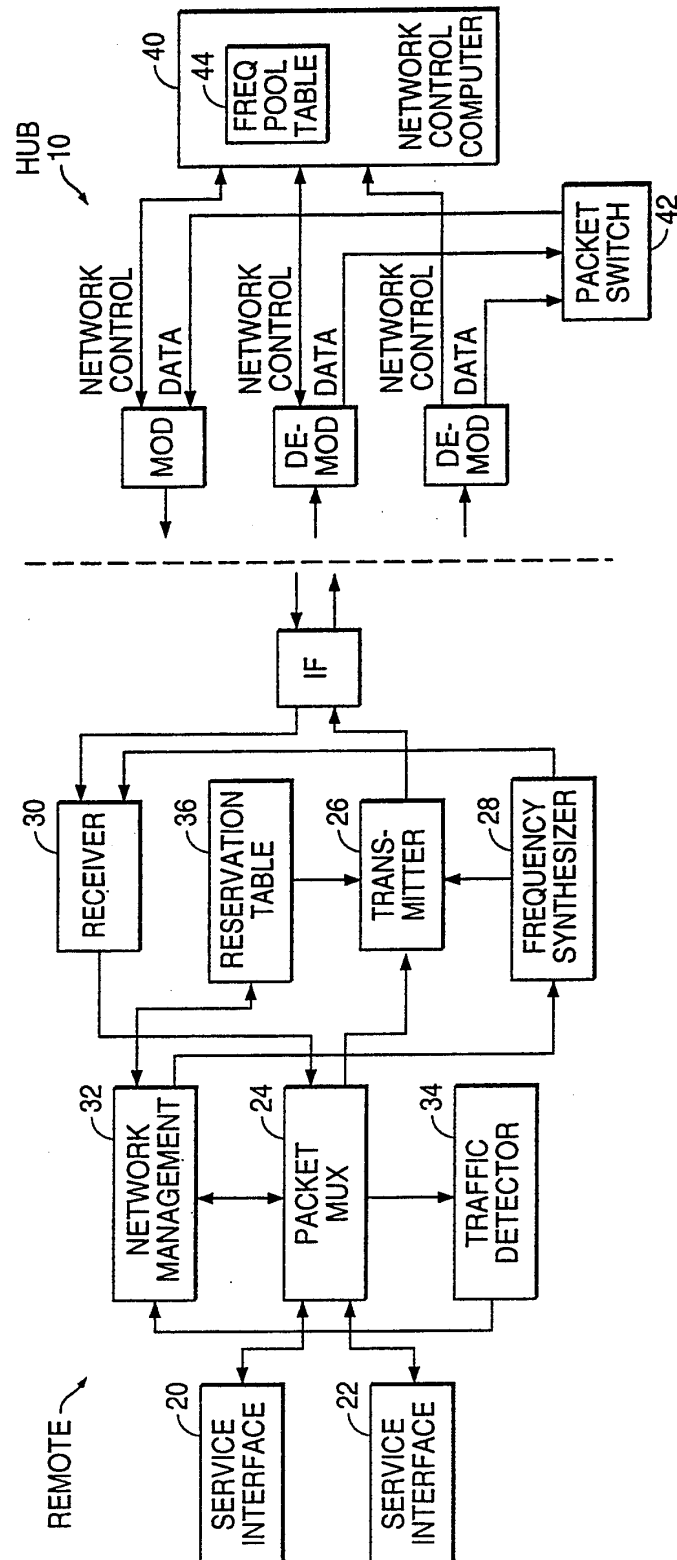


FIG. 2



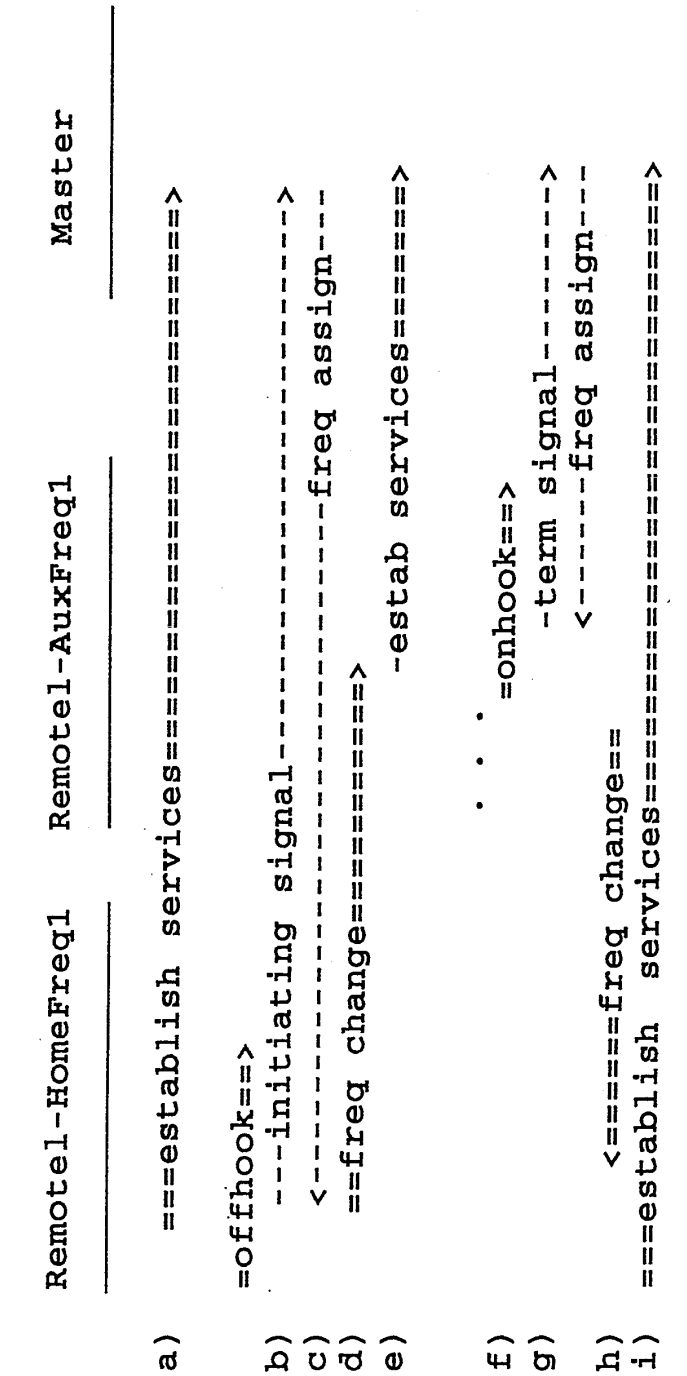


FIG. 3

Master

Remotel

```

    . . .
=init'g event===>
  ---initiating signal----->
  <-----subchan definition---
  <-----termination metric--- (opt)
=use subchan===>

    . . .
=term event=====>
  or
=metric exp=====>
  -term signal----->
  <-----subchan def clear--
=use gen pool===>

```

FIG. 5

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