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Thoumy et al.

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(54) **DEVICE AND METHOD FOR THE DYNAMIC ALLOCATION OF FREQUENCIES FOR MULTICARRIER MODULATION SYSTEMS**

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(21) Appl. No.: **09/450,716**

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(30) **Foreign Application Priority Data**

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Jan. 29, 1999 (FR) 99 0134
Oct. 11, 1999 (FR) 99 12648

(51) **Int. Cl.**
H04L 27/10 (2006.01)

(52) **U.S. Cl.** **375/275; 375/260**

(58) **Field of Classification Search** **375/275, 375/271, 279, 260, 281, 222, 246**
See application file for complete search history.

(56) **References Cited**

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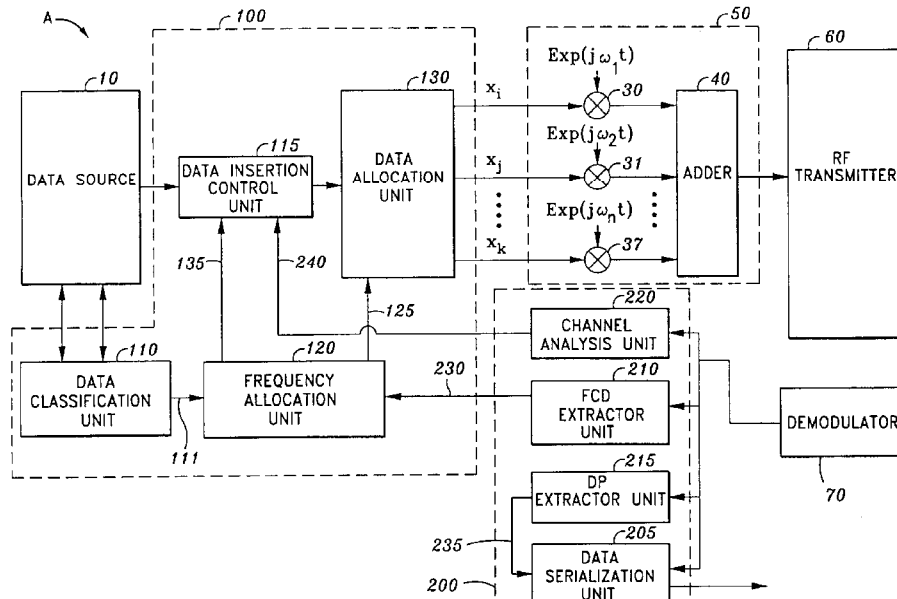
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(57) **ABSTRACT**

The method of transmitting data in the form of symbols sent over an electromagnetic channel is characterized in that a measurement of significance is attributed to each group of data to be transmitted, in that the transmission reliability of the carriers is estimated dynamically, and in that the most significant data are sent over the most reliable carriers at each instant, the other data being sent over the carriers of decreasing reliability, in decreasing order of significance of the data.

101 Claims, 30 Drawing Sheets



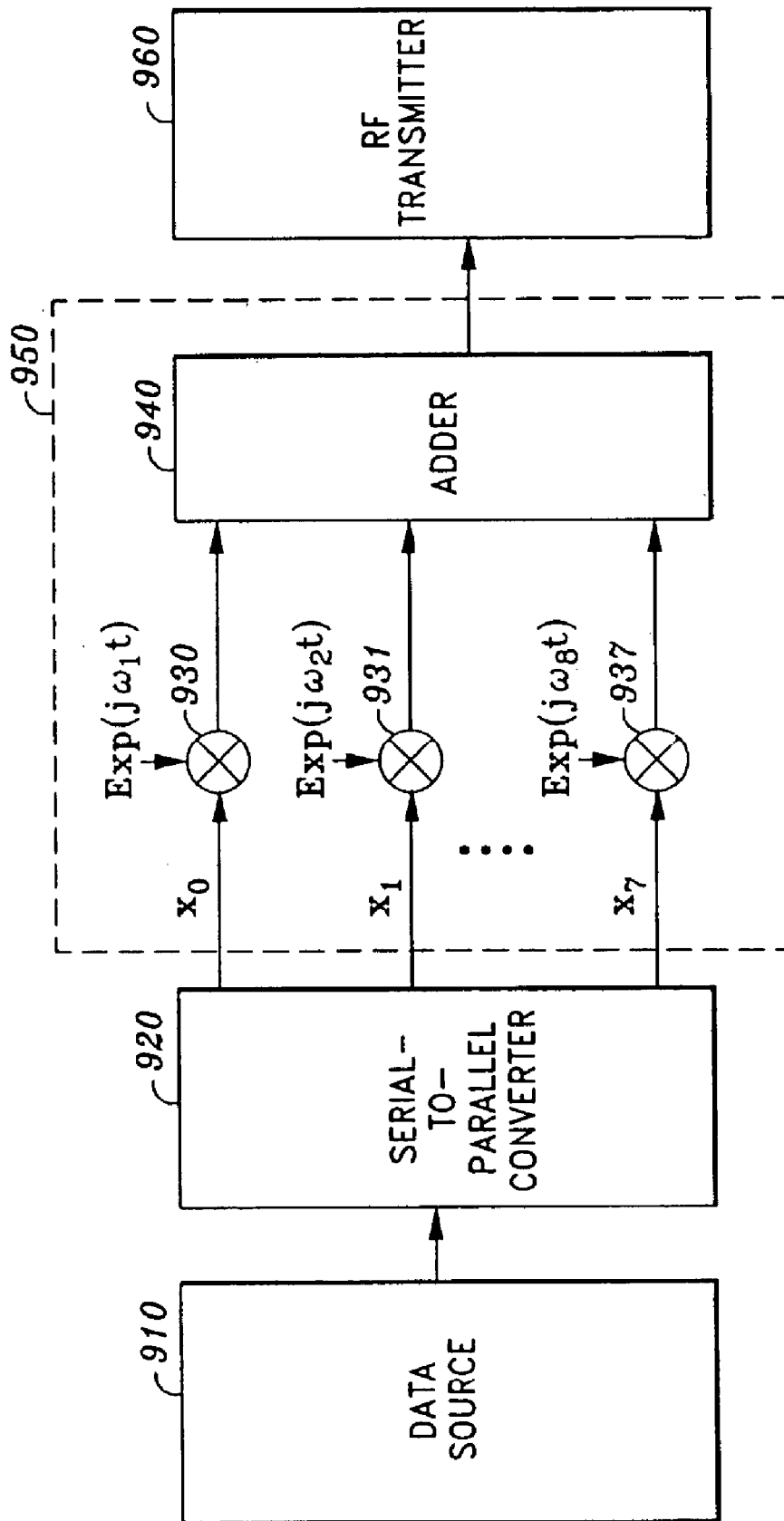


FIG. 1
(PRIOR ART)

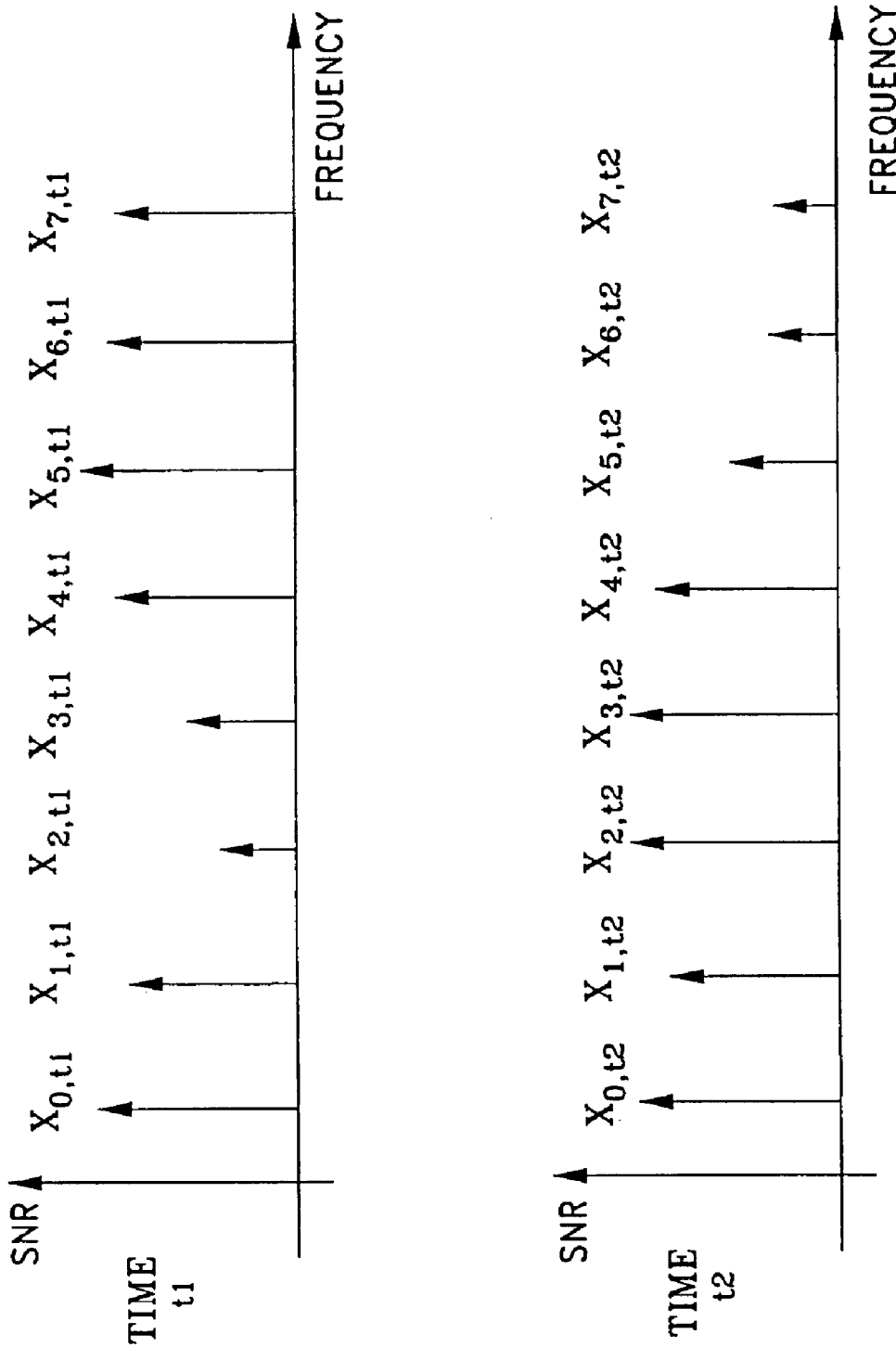


FIG. 2
(PRIOR ART)

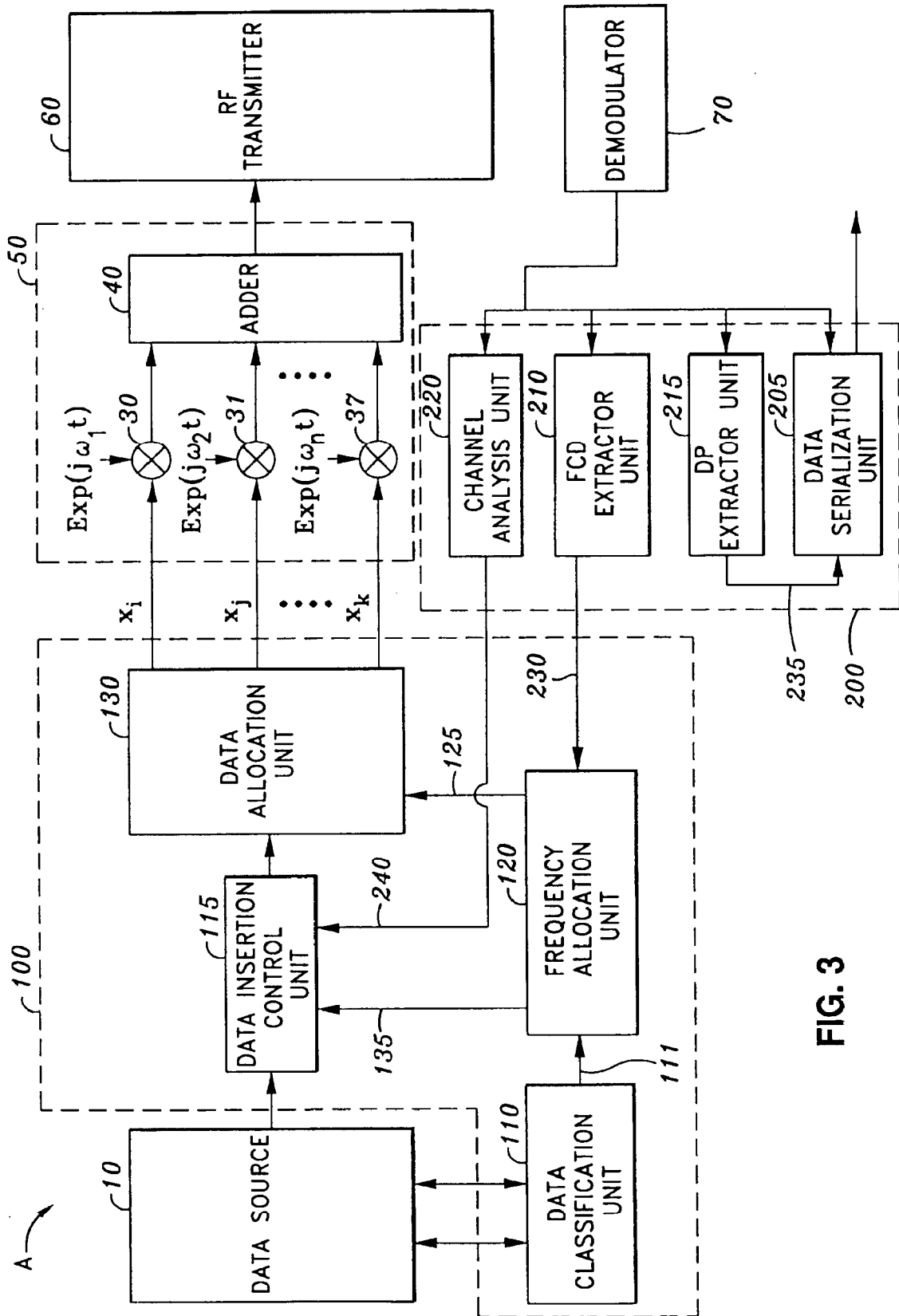


FIG. 3

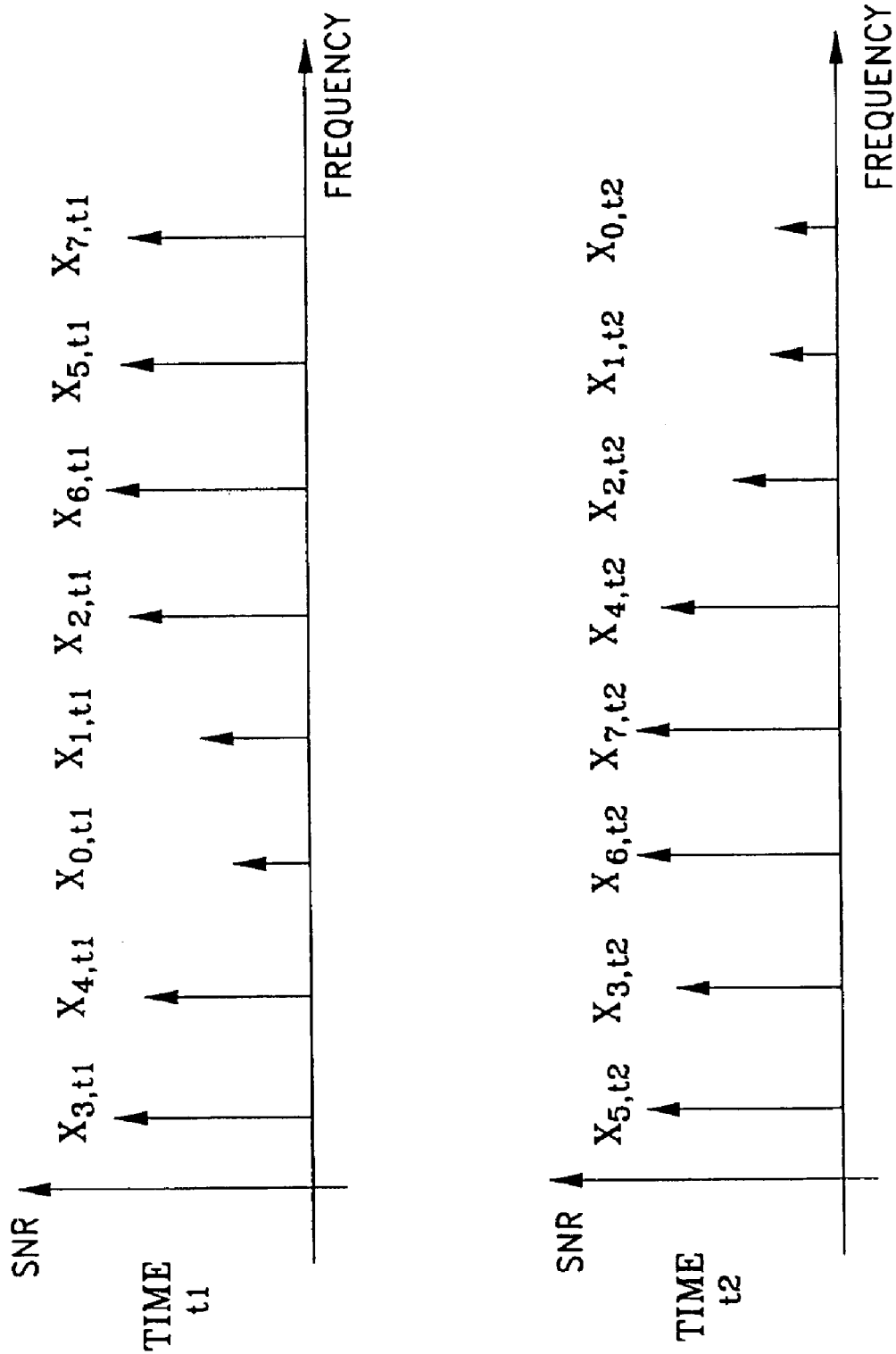


FIG. 4

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