

United States Patent [19]

Cotie et al.

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[54] ADDRESSING SYSTEM FOR
SIMULTANEOUSLY POLLING PLURAL
REMOTE STATIONS

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[51] Int. Cl.⁴ **H04Q 9/00; G05B 23/02**

[52] U.S. Cl. **340/825.08; 340/825.54**

[58] Field of Search **340/825.54, 825.08,
340/310 R, 310 A, 870.02, 825.6, 825.16;
370/96; 455/14, 3**

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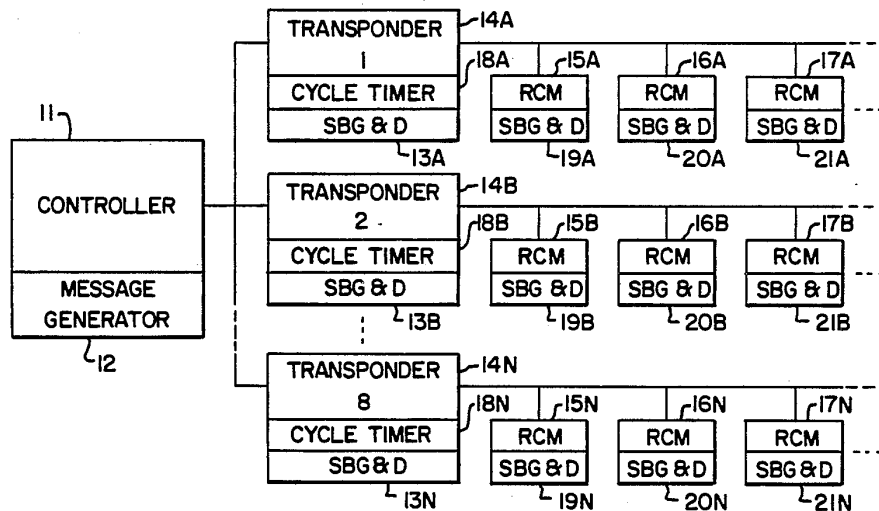
Primary Examiner—Donald J. Yusko

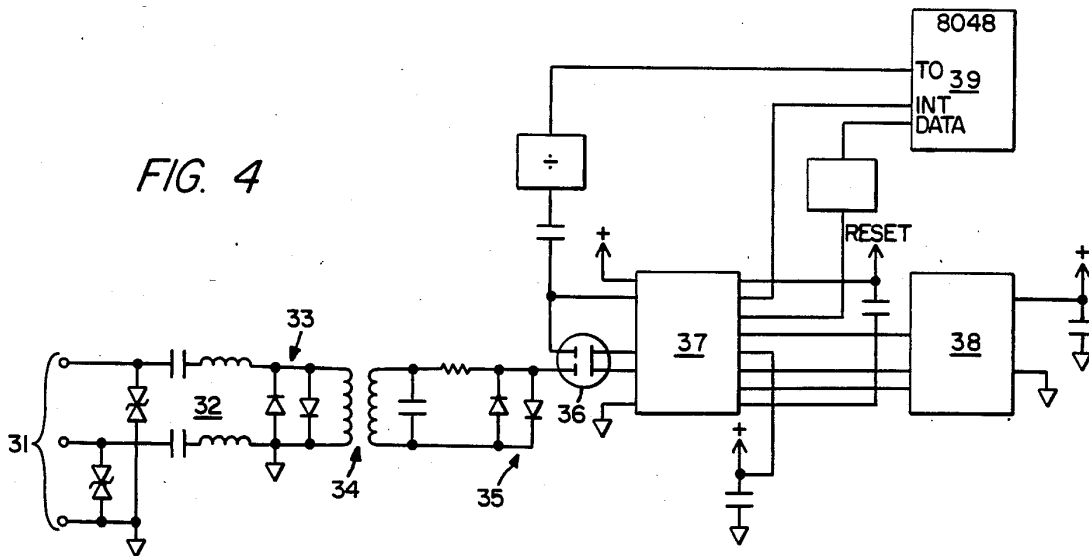
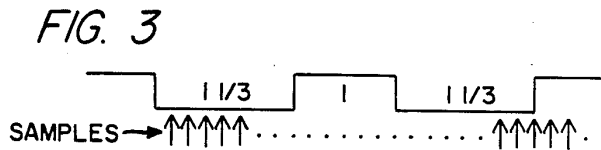
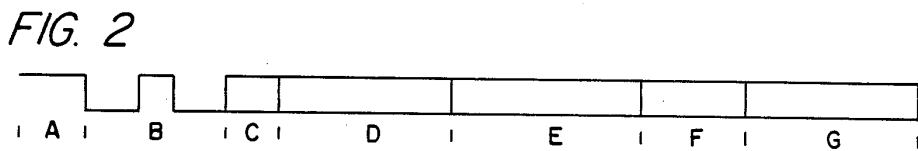
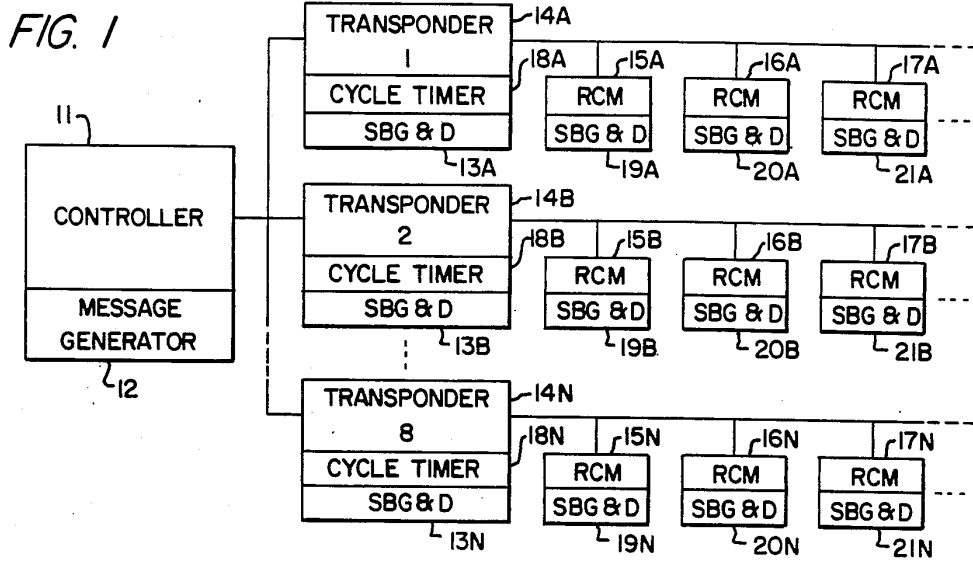
Attorney, Agent, or Firm—Trevor B. Joike; John P.
Sumner

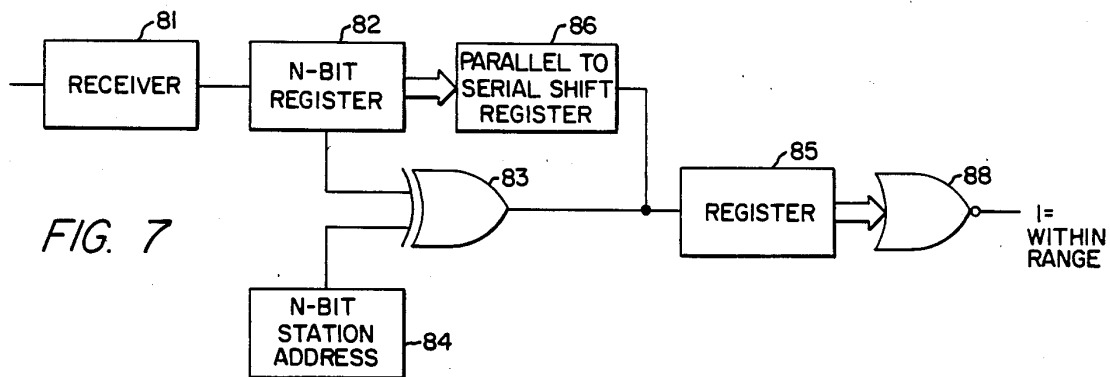
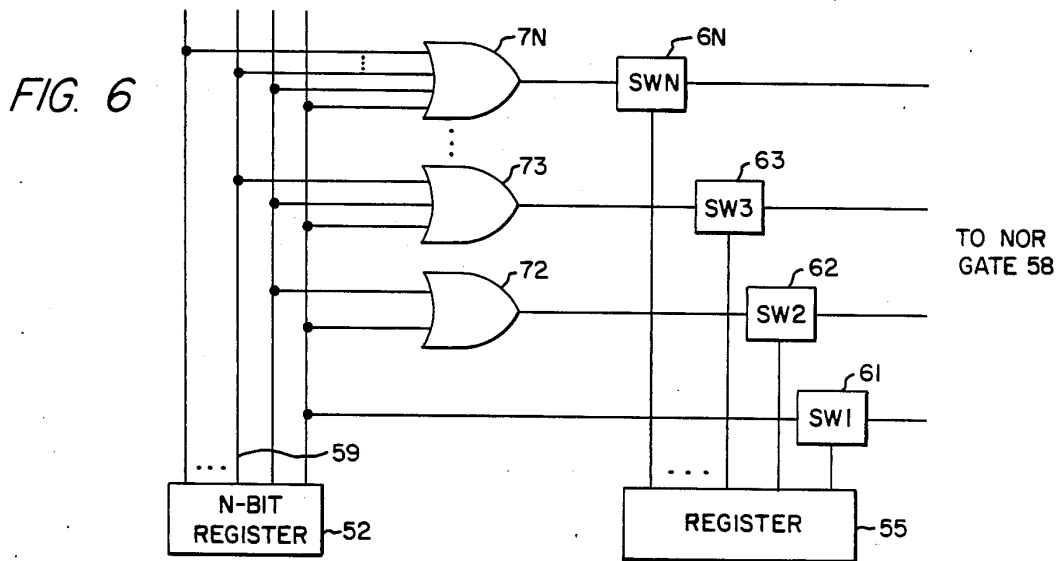
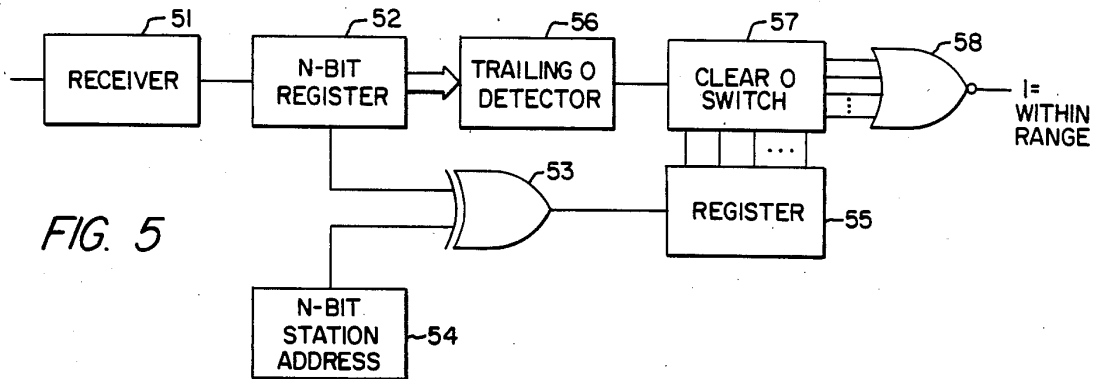
[57] ABSTRACT

In a contention polling arrangement wherein polling messages are transmitted by a central controller for simultaneously polling a group of remote stations, the polling message contains an address which defines the entire range of remote stations to be polled and the remote stations will respond if their addresses fall between the address contained in the polling message and an address resulting from converting any trailing 0's of the address in the polling message to 1's.

21 Claims, 11 Drawing Figures







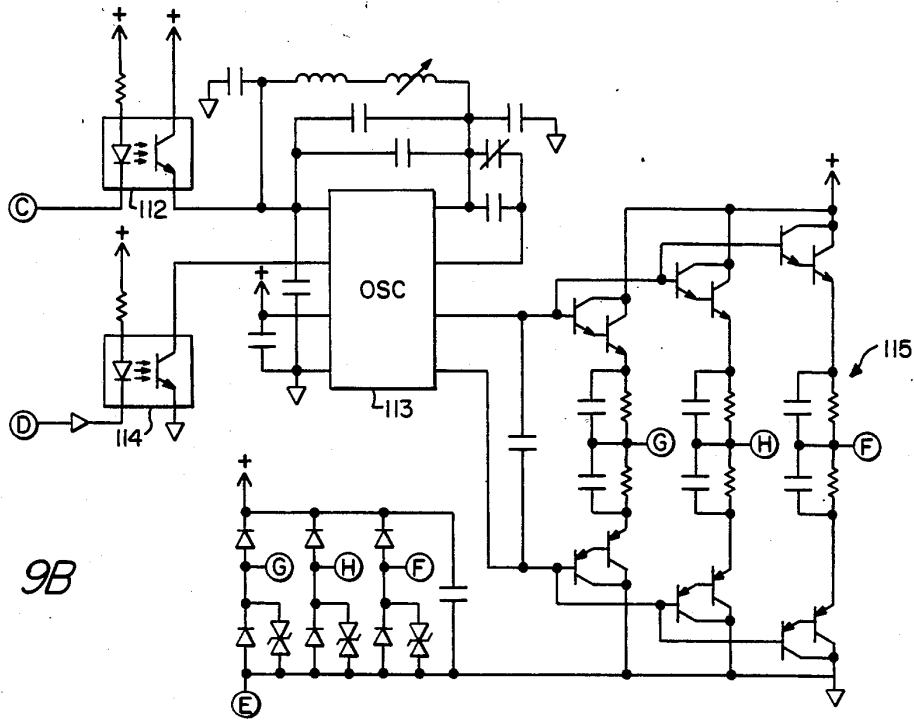


FIG. 9B

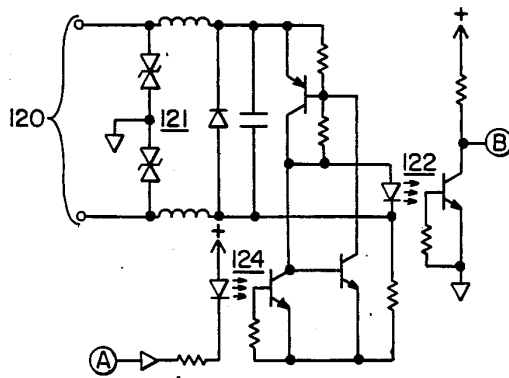
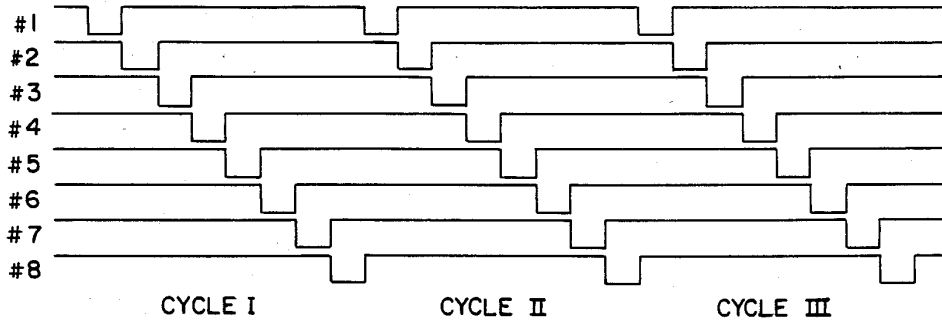


FIG. 9C

FIG. 8

TRANSPONDERS



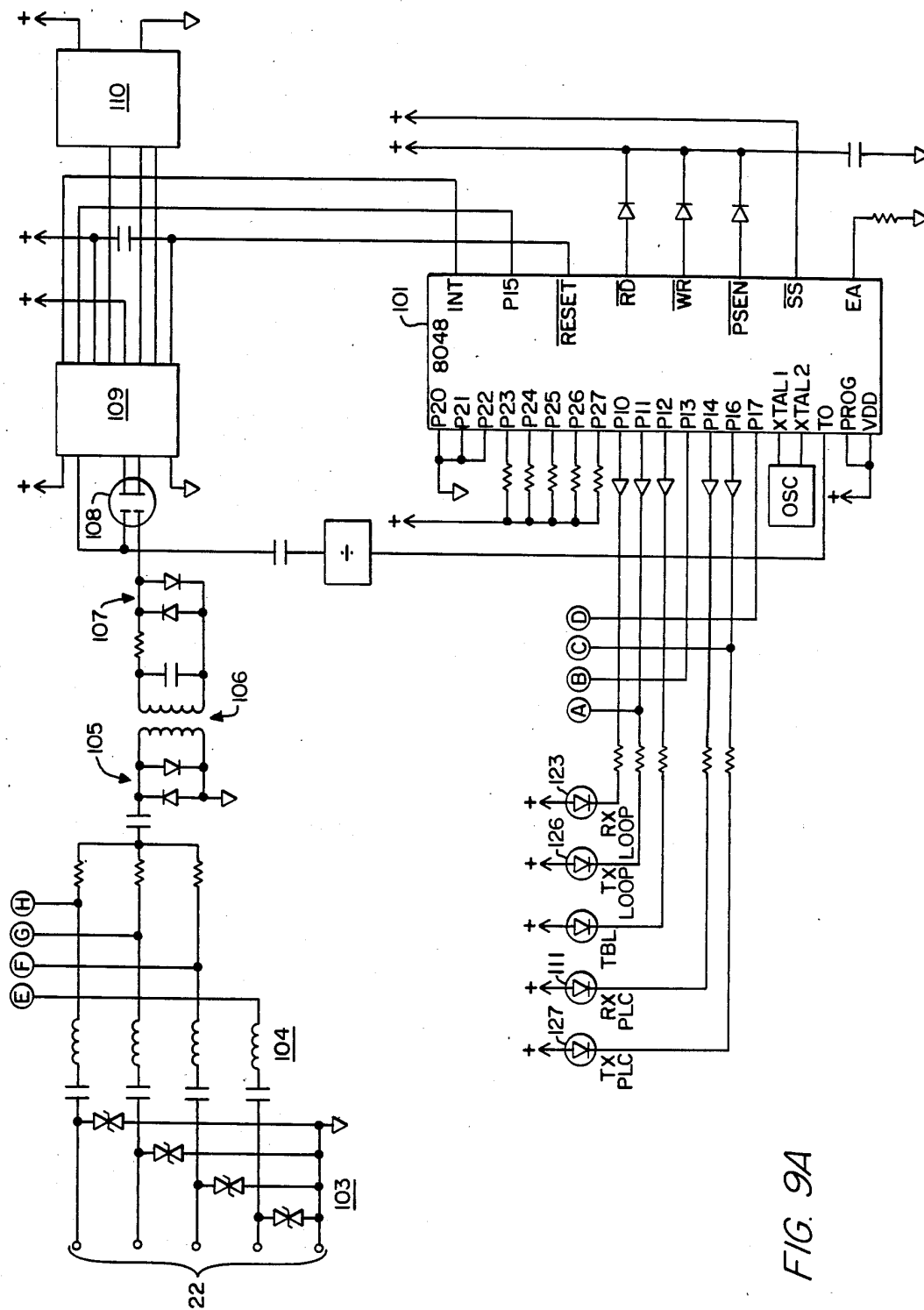


FIG. 9A

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