

[54] POLICE TRAFFIC RADAR USING ABSOLUTE SIGNAL STRENGTH INFORMATION TO IMPROVE TARGET SIGNAL PROCESSING ACCURACY

4,743,908	5/1988	Brassfield et al.	342/113
5,402,346	3/1995	Lion et al.	364/436
5,446,923	8/1995	Martinson et al.	455/330
5,504,488	4/1996	Henderson et al.	342/115

[75] Inventors: John L. Aker, Kansas City, Mo.; Robert S. Gammethaler, Princeton; Alan B. Mead, Plano, both of Tex.

OTHER PUBLICATIONS

Westlaw Search, Nov. 14, 1994.  
 Craig Paterson, Speed Enforcement Technology, An explanation of the latest features and capabilities of speed detection equipment, Law and Order, vol. 41, No. 9, Sep. 1993, pp. 32-41.

[73] Assignee: Applied Concepts, Inc., Plano, Tex.

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[22] Filed: Feb. 10, 1995

[51] Int. Cl.<sup>6</sup> ..... G01S 13/58

[52] U.S. Cl. .... 342/104; 342/115; 342/116; 342/196

[58] Field of Search ..... 342/104, 112, 342/115, 114, 116, 196

[57] ABSTRACT

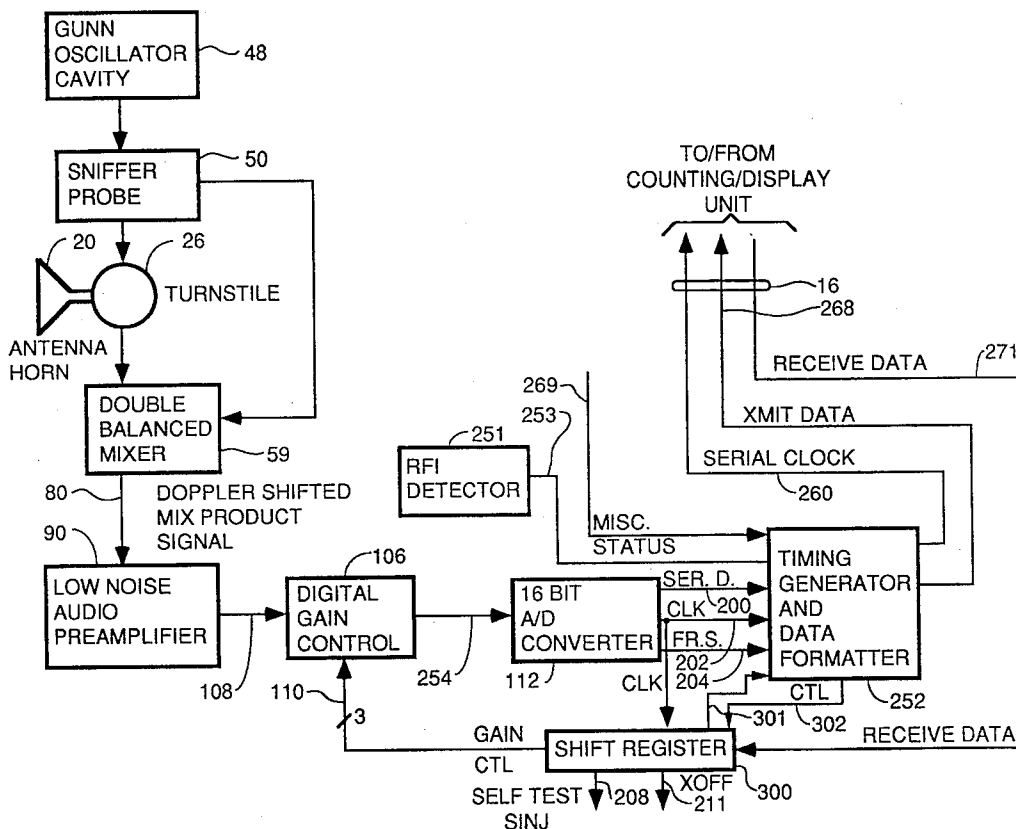
A police radar utilizing digital data transmission from the antenna unit to a separately housed counting and display unit. The antenna has a double balanced mixer to suppress even order harmonics. The counting and display unit has a computer programmed to perform digital signal processing on the digital data received from the antenna to improve the quality and accuracy of calculated speeds for patrol speed, strongest target speed and fastest target speed. Fastest target speed can be displayed simultaneously with strongest target speed. Signal processing techniques are used to suppress false signals caused by double and triple bounce, harmonics, intermodulation products, video display terminal interference, etc.

[56] References Cited

U.S. PATENT DOCUMENTS

3,438,031	4/1969	Fathauer	342/92
3,689,921	9/1972	Berry	342/115
3,936,824	2/1976	Aker et al.	342/115
4,214,243	7/1980	Patterson	342/115
4,236,140	11/1980	Aker et al.	342/115
4,293,859	10/1981	Sergent	343/702
4,335,382	6/1982	Brown et al.	342/104
4,335,383	6/1982	Berry	342/115
4,740,045	4/1988	Goodson et al.	342/112

22 Claims, 46 Drawing Sheets



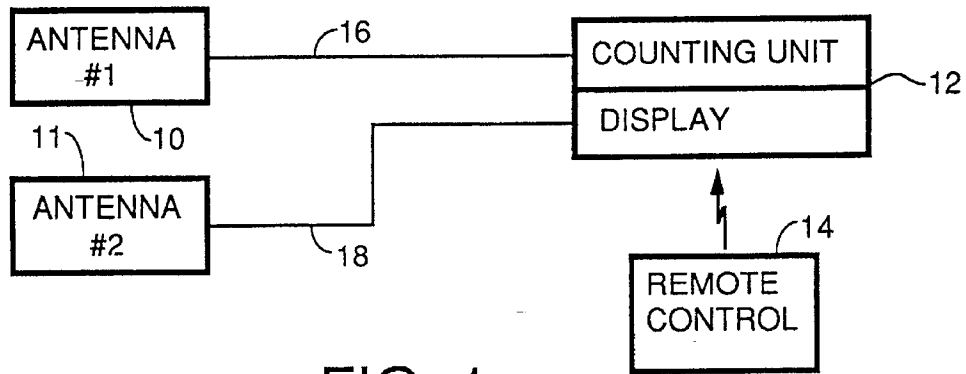


FIG. 1

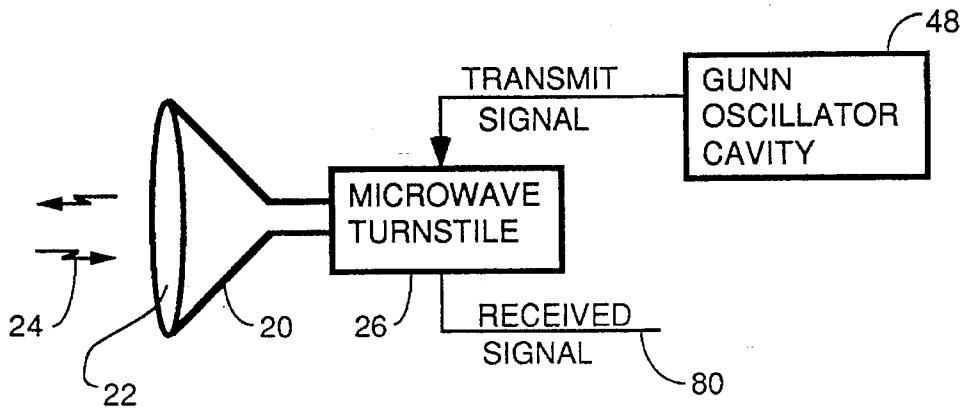


FIG. 2

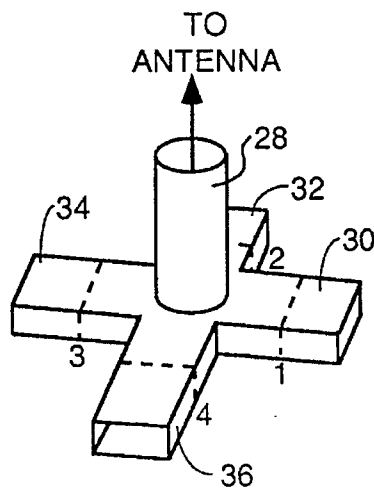


FIG. 3

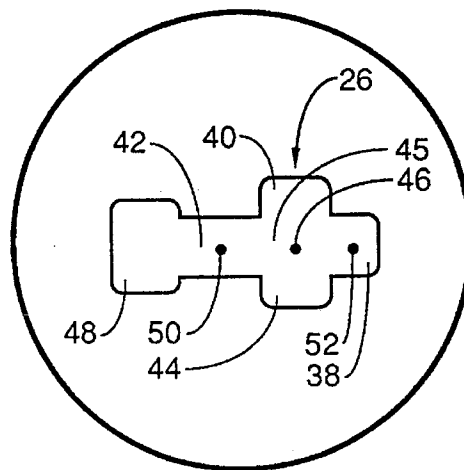


FIG. 4

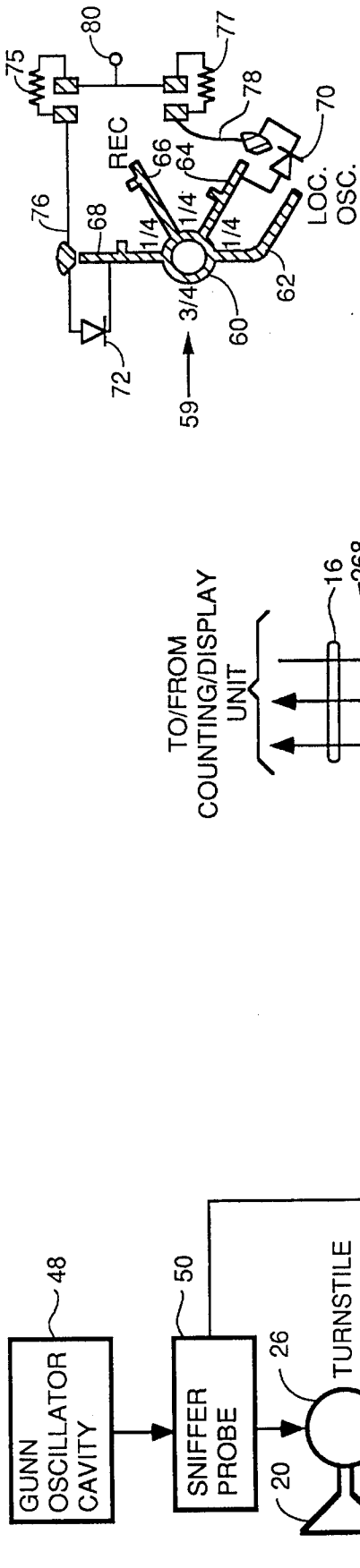


FIG. 5

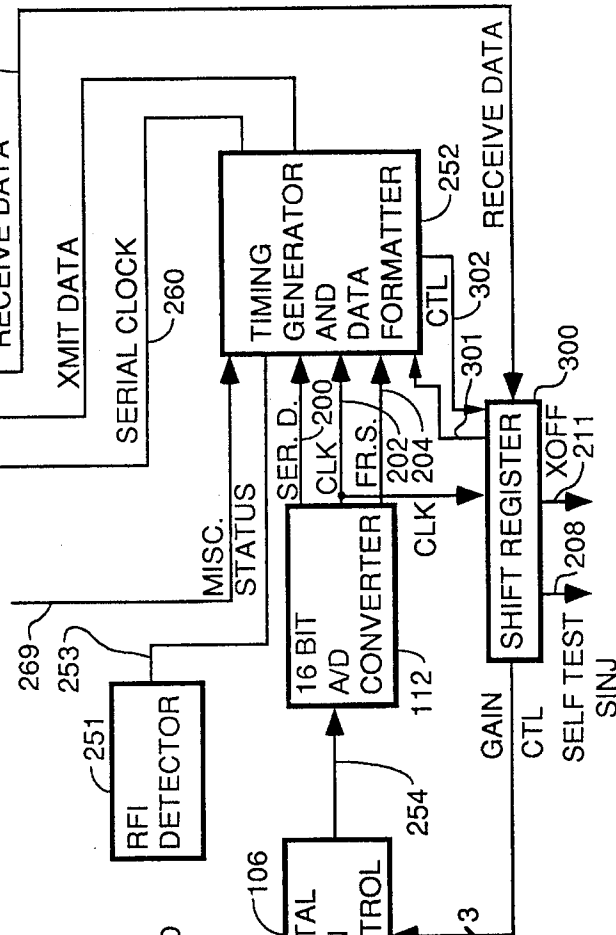


FIG. 6

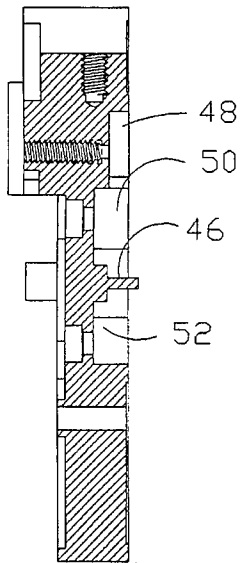


FIG. 8

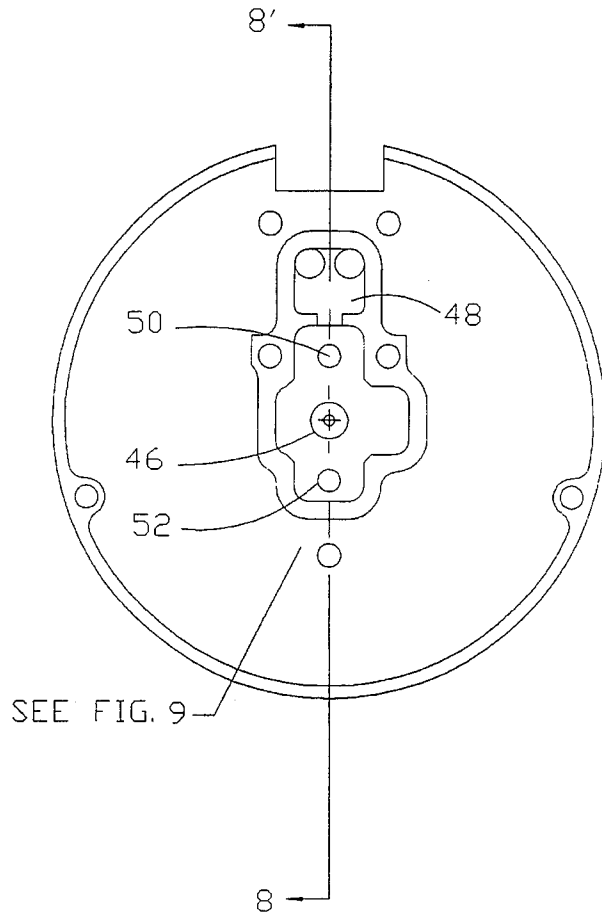


FIG. 7

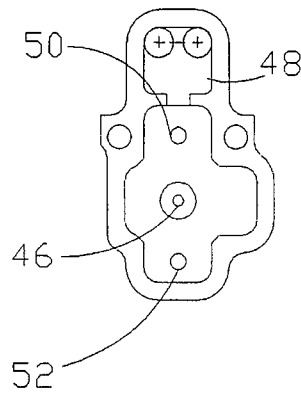


FIG. 9

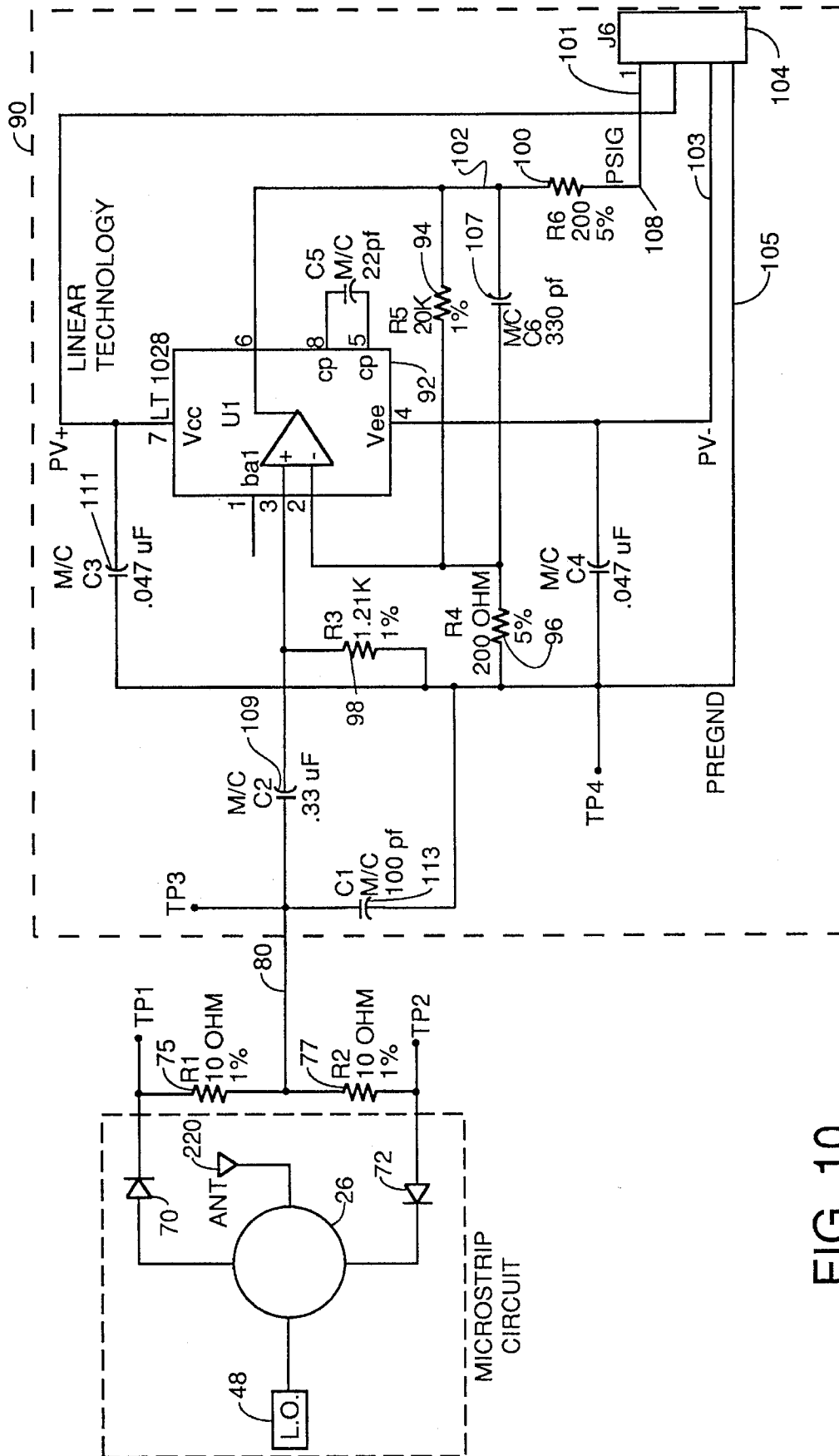


FIG. 10

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