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United States Patent [19]

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Eatwell

[45] Date of Patent: **Sep. 3, 1996**

[54] **METHOD AND SYSTEM FOR ON-LINE SYSTEM IDENTIFICATION**

IEEE Transactions of Information Theory. "Polyphase Codes with Good Periodic Correlation Properties." David Chu. Jul. 1972 pp. 531-535.

[75] Inventor: **Graham P. Eatwell**, Cambridge, United Kingdom

Adaptive Signal Processing Bernard Widrow and Samuel Stearns. Prentice Hall, Inc. 1985, Table of Contents.

[73] Assignee: **Noise Cancellation Technologies, Inc.**, Linthicum, Md.

Active Control of Sound. Nelson and Elliot. Academic Press. 1992, Table of Contents.

[21] Appl. No.: **15,195**

[22] Filed: **Feb. 10, 1993**

Primary Examiner—Curtis Kuntz

[51] Int. Cl.⁶ **A61F 11/06**

Assistant Examiner—Ping W. Lee

[52] U.S. Cl. **381/71**

[58] Field of Search **381/71, 94**

[56] References Cited

[57] ABSTRACT

U.S. PATENT DOCUMENTS

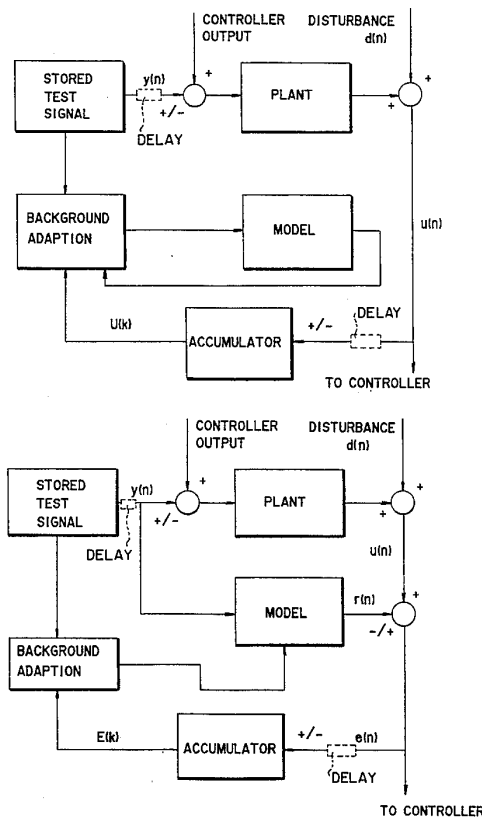
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4,953,217	8/1990	Twiney et al.	381/71
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5,278,913	1/1994	Delfosse et al.	381/71

OTHER PUBLICATIONS

IBM J. Research and Development "Periodic Sequences with Optimal Properties for Channel Estimation and Fast Start Up Equalization" A. Milewski. pp. 426-430. Vol. 27 No. 5 Sep. 1983.

This invention relates to an improved method of on-line system identification for use with active control systems which requires less computation and reduces the problem of coefficient jitter in the filters of the active control system by using a fixed test signal which is designed to have a particular power spectrum.

18 Claims, 4 Drawing Sheets



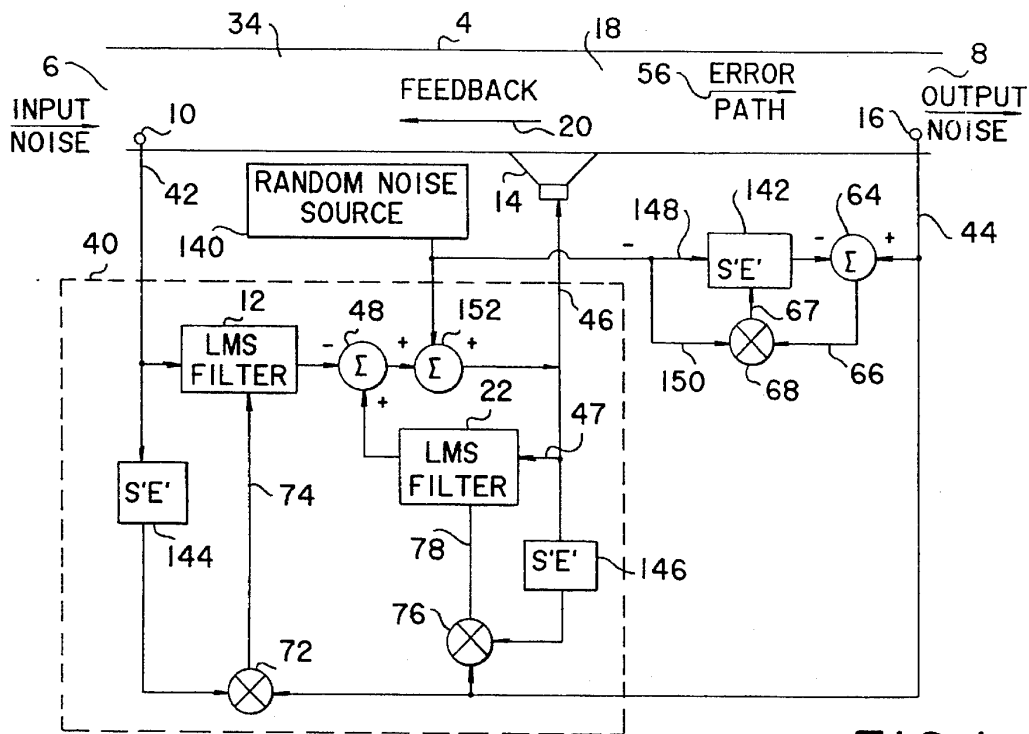


FIG. 1

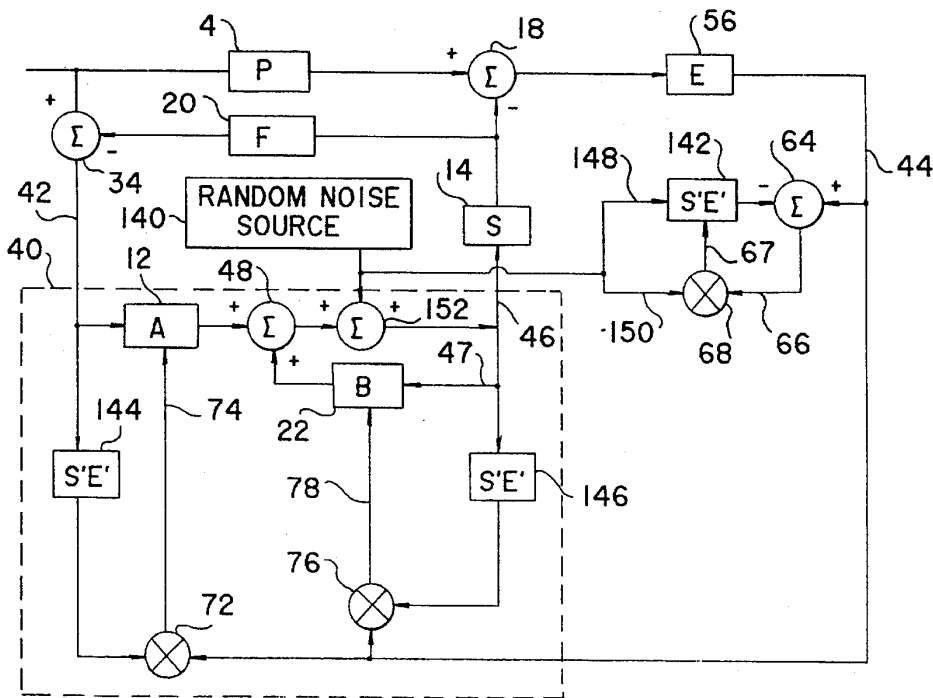


FIG. 2

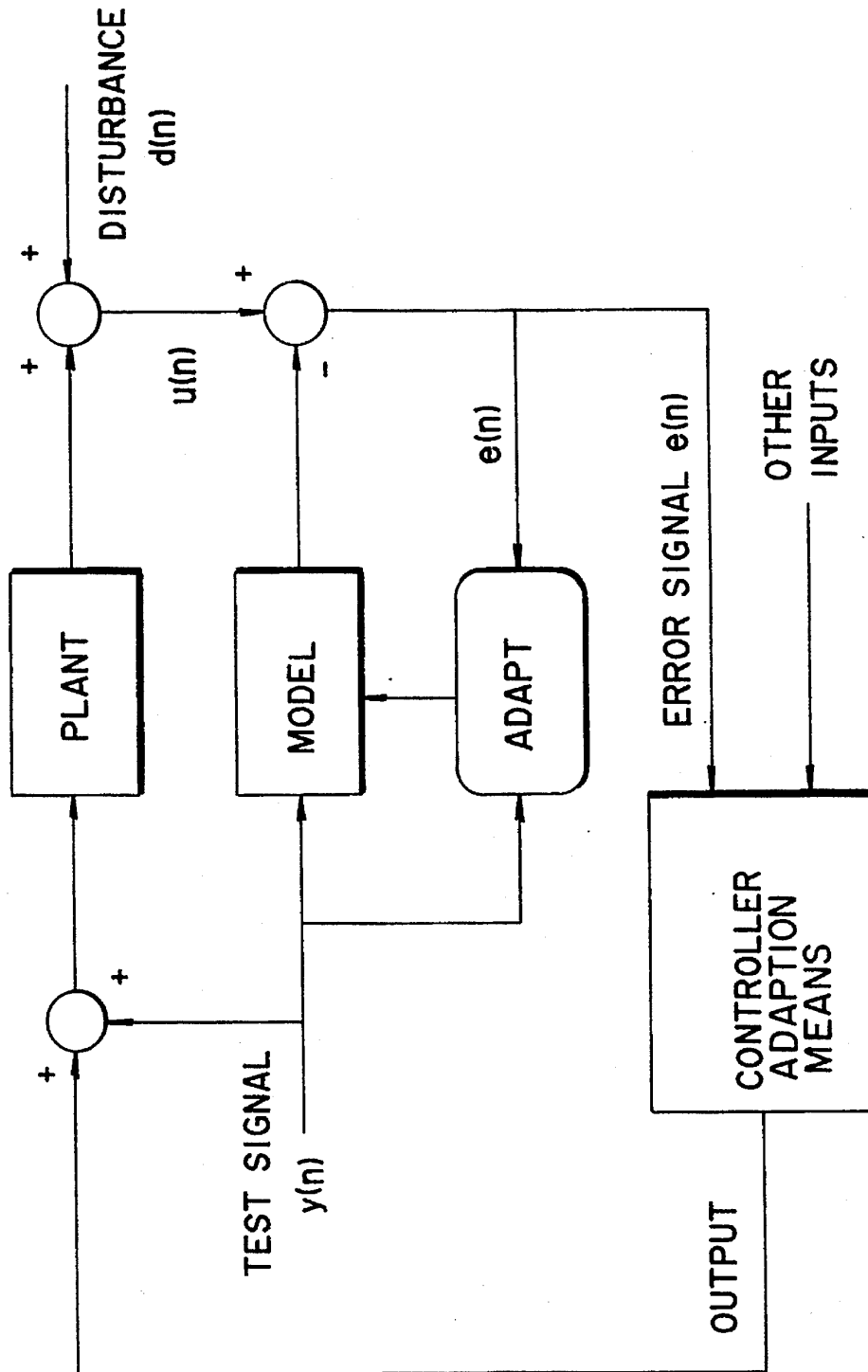


FIG.3

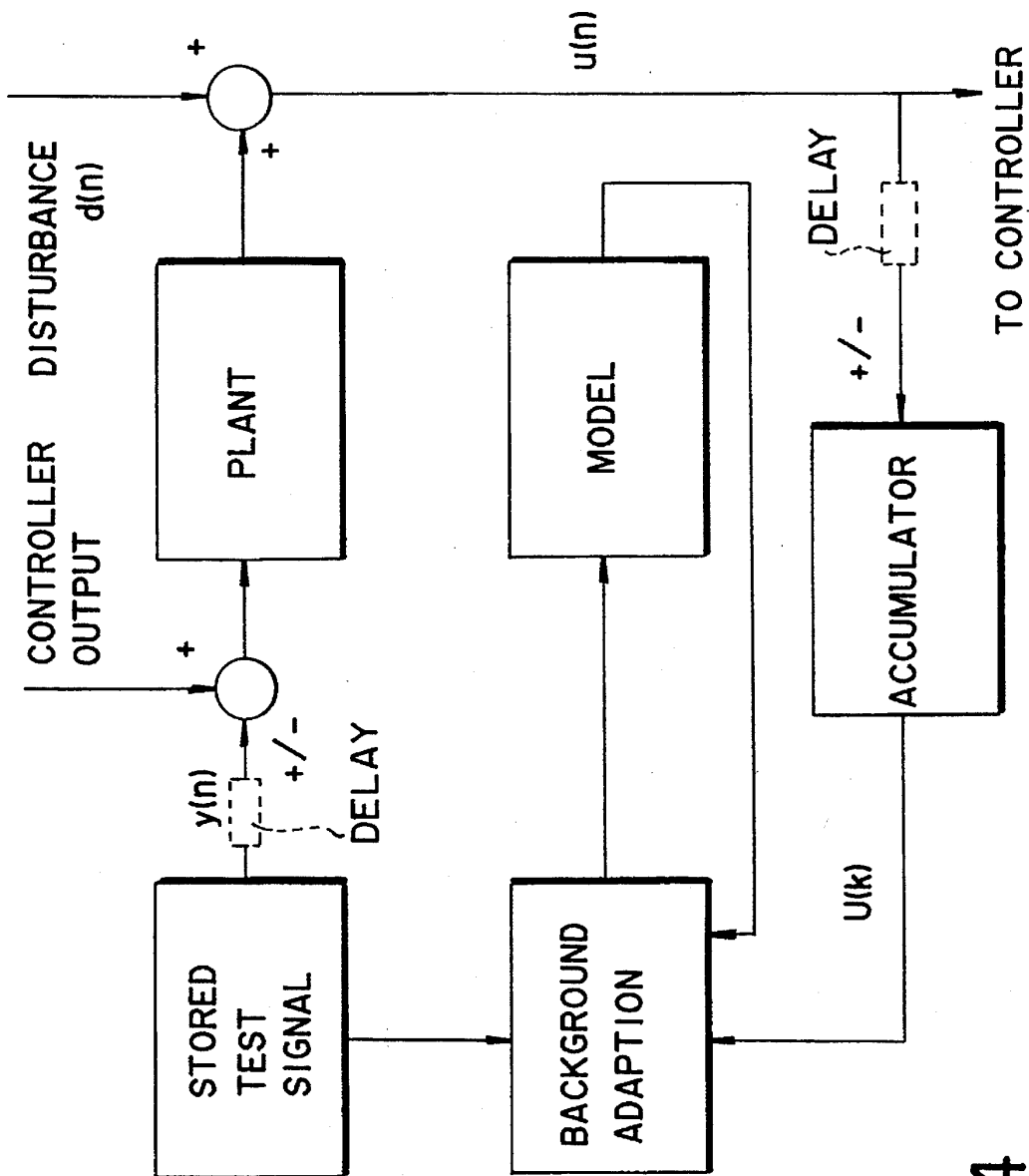


FIG.4

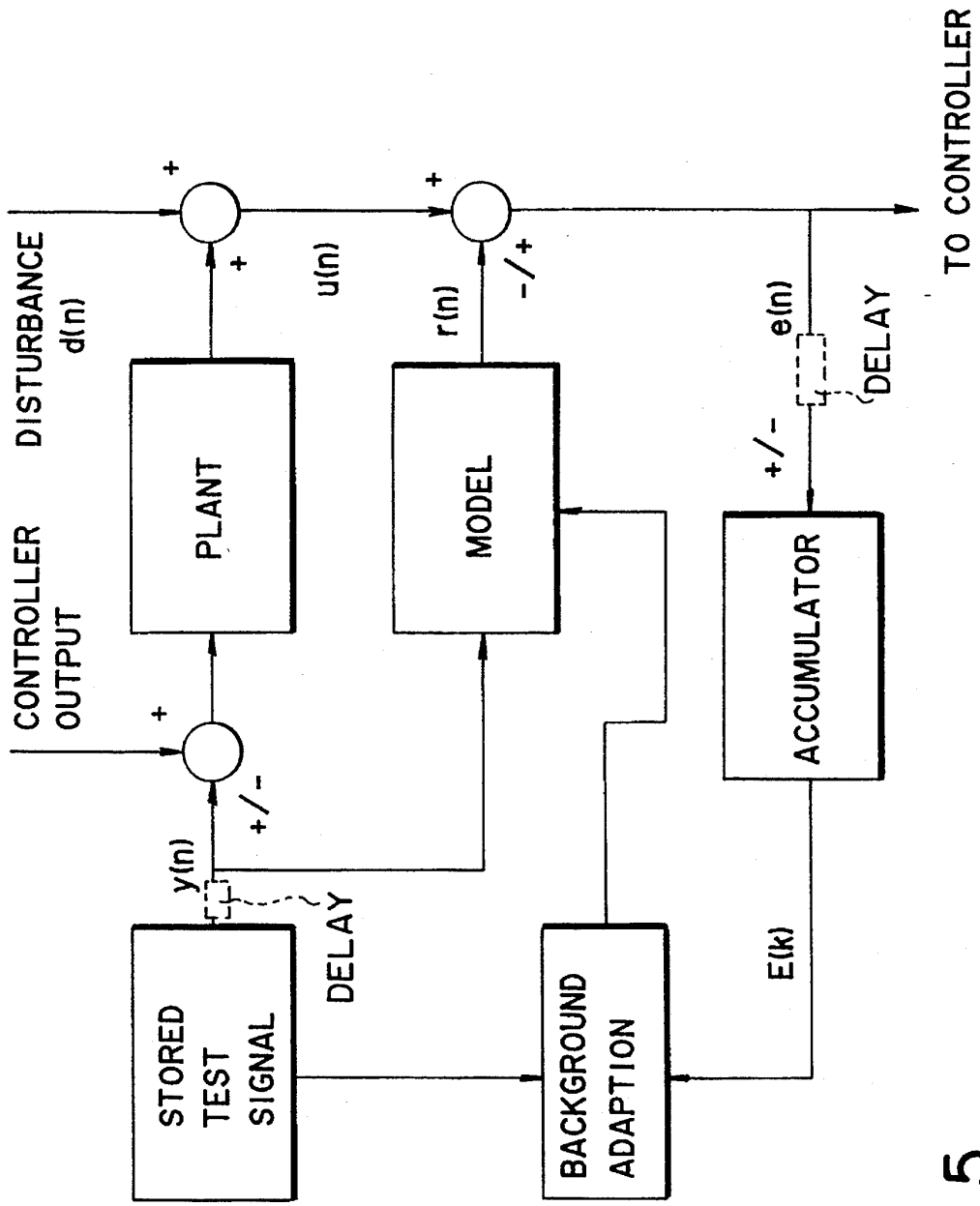


FIG. 5

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