



US005553153A

United States Patent [19] Eatwell

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

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

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

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

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

[51] Int. Cl.⁶ **A61F 11/06**

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

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

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

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Primary Examiner—Curtis Kuntz

Assistant Examiner—Ping W. Lee

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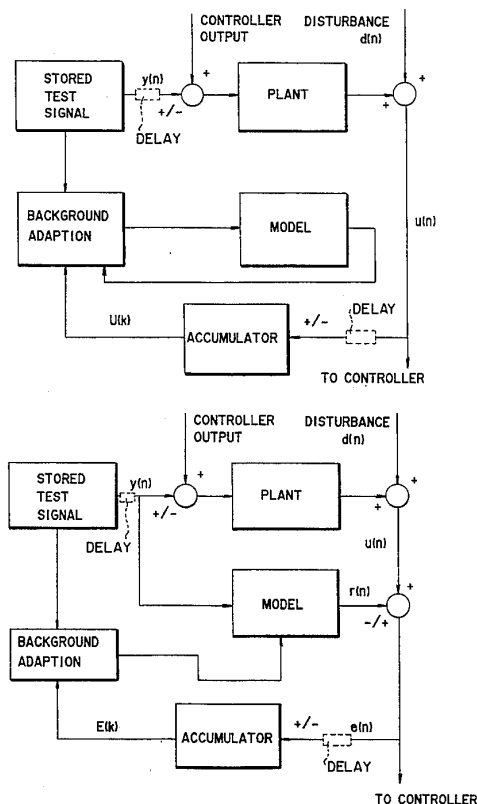
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[57] ABSTRACT

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



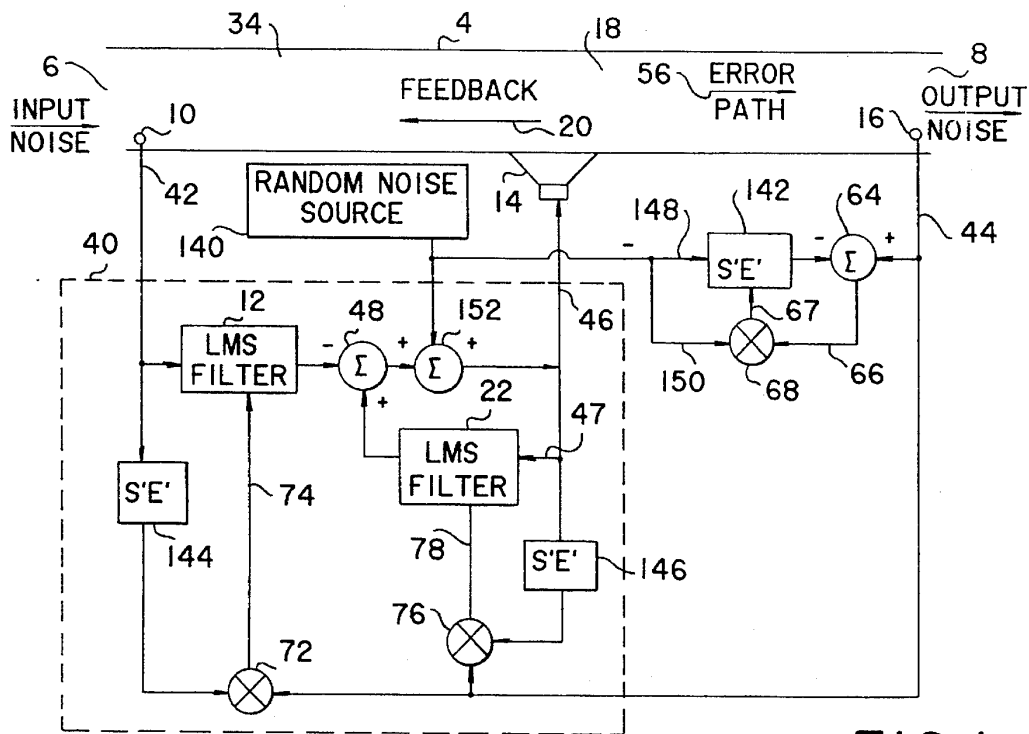


FIG. 1

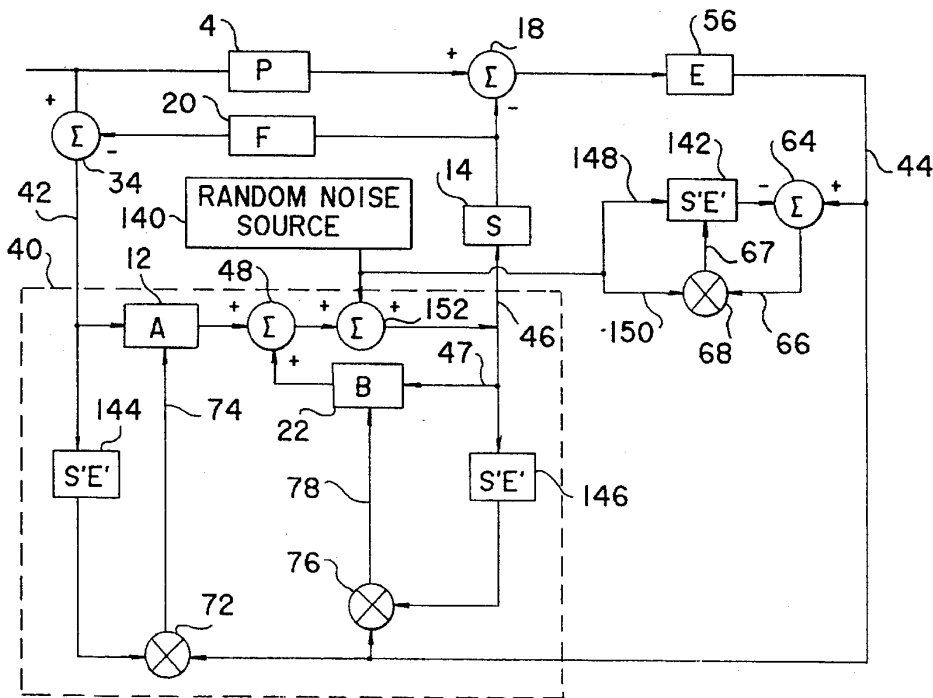


FIG. 2

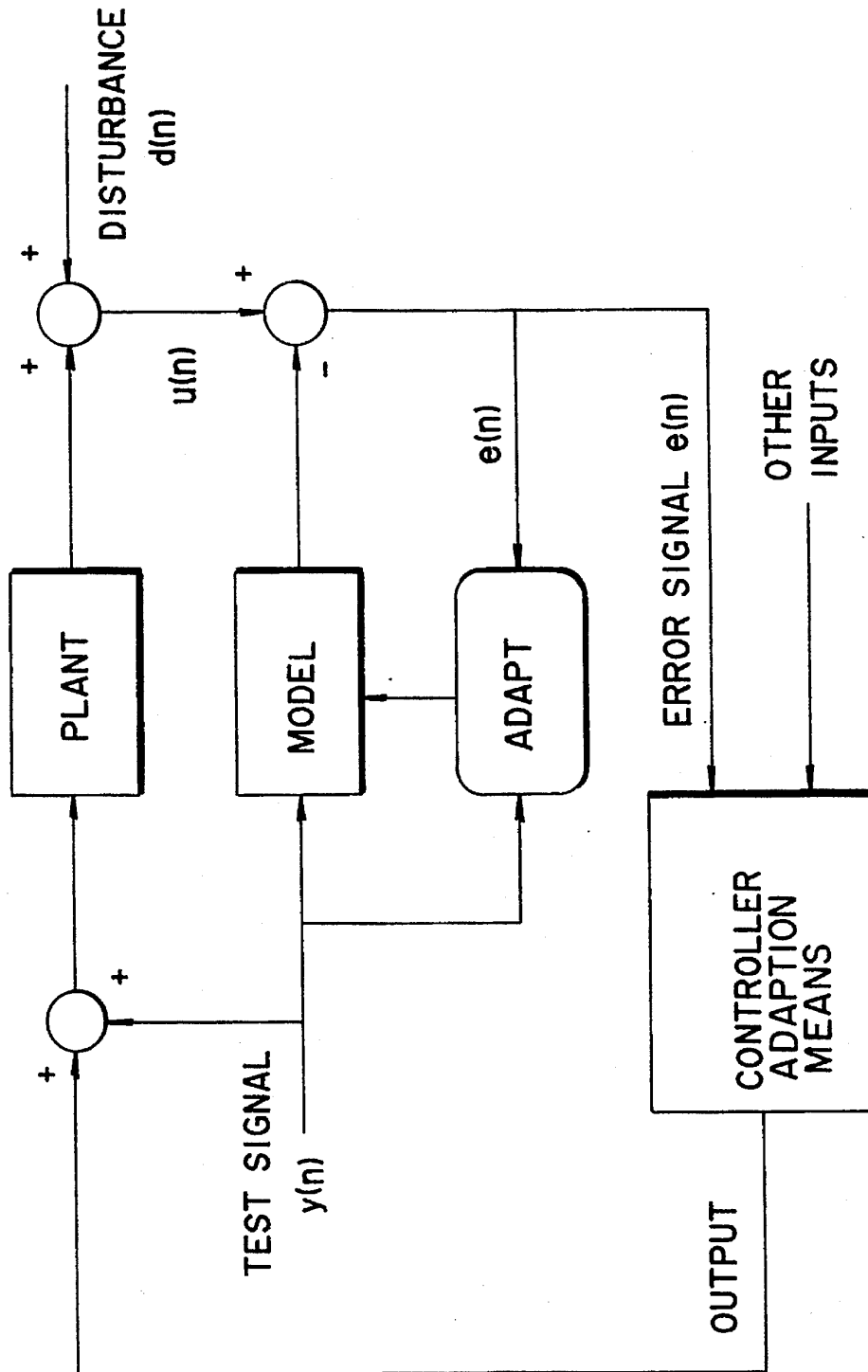


FIG.3

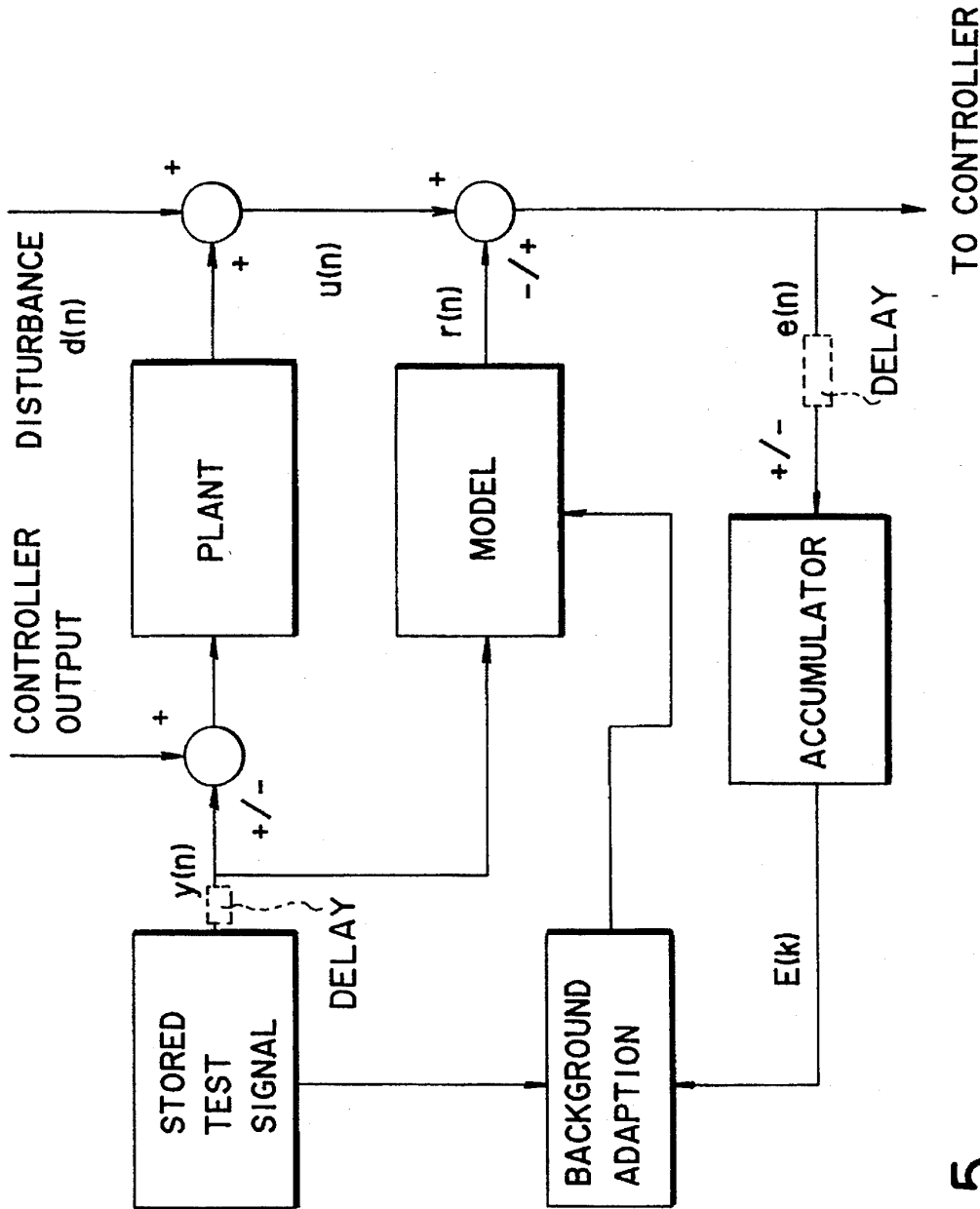


FIG. 5

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