

Ex. PGS 1067

[54] **SEISMIC VIBRATOR CONTROL SYSTEM**

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both of Ponca City, Okla.

[73] Assignee: **Conoco Inc.,** Ponca City, Okla.

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[51] Int. Cl.³ **G01V 1/155; G01V 1/143**

[52] U.S. Cl. **367/189; 181/107**

[58] Field of Search 367/23, 41, 49, 189;
364/421; 181/107; 73/662

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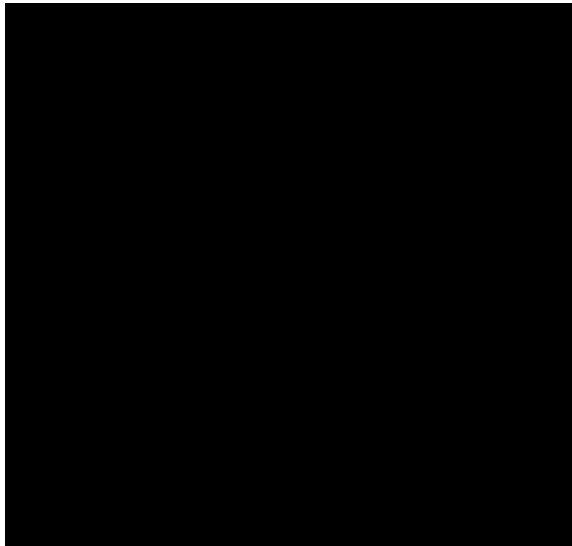
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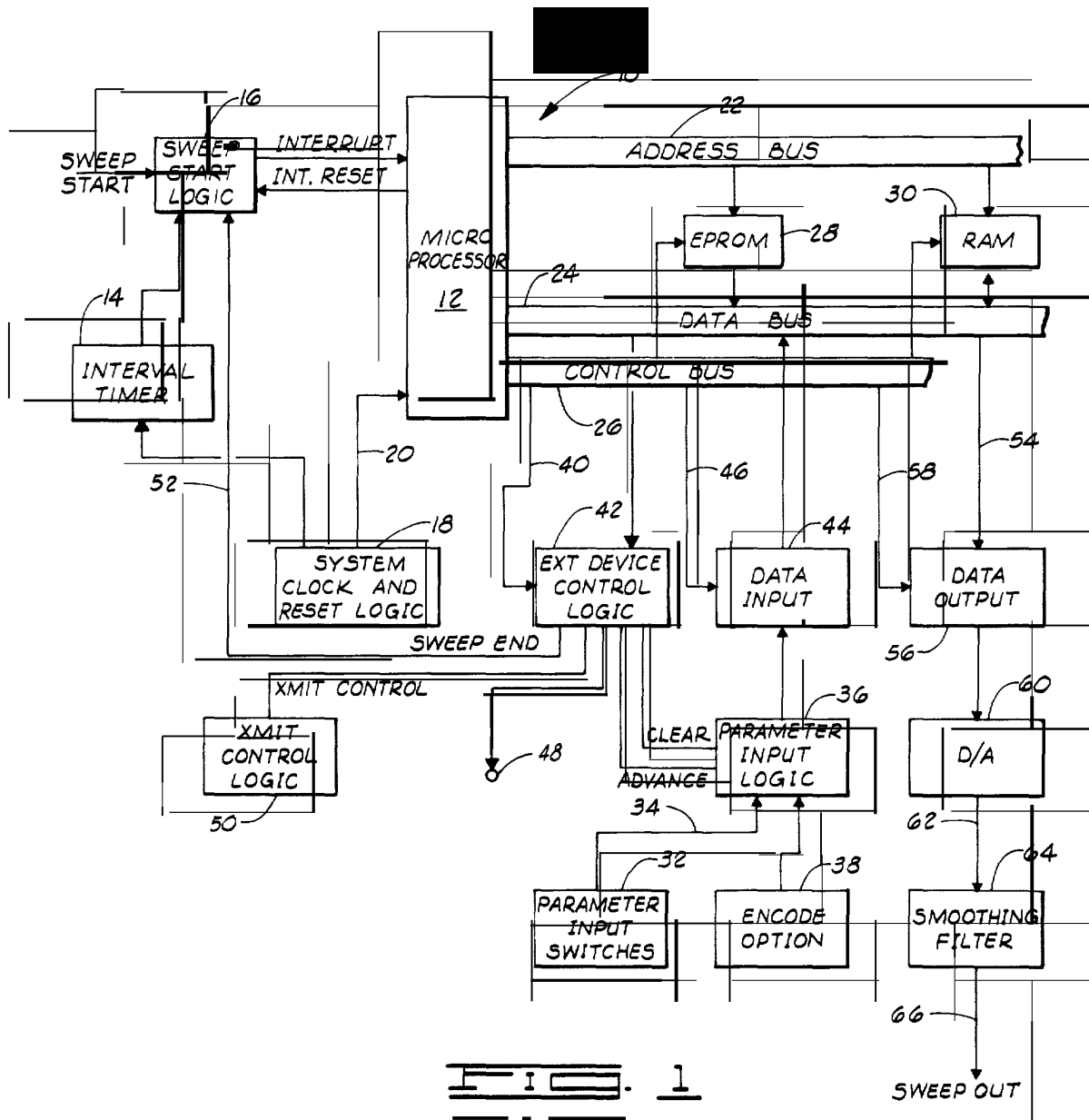
Primary Examiner—Nelson Moskowitz
Attorney, Agent, or Firm—William J. Miller

[57] **ABSTRACT**

A method and apparatus for construction of a seismic vibrator control signal which comprises manually selecting sweep parameter data values for starting frequency, ending frequency, sweep time and taper time and inputting to an addressable storage medium. Thereafter, determining for each of a plurality of sample points throughout the sweep time, the sweep rate of change per sample point and the accumulated frequency value per sample point, and outputting in real time the digital sweep values for each successive sample point, and subsequently converting and smoothing said successive digital sweep values to an analog control signal of the selected frequency, relative amplitude and duration of sweep length.

12 Claims, 5 Drawing Figures





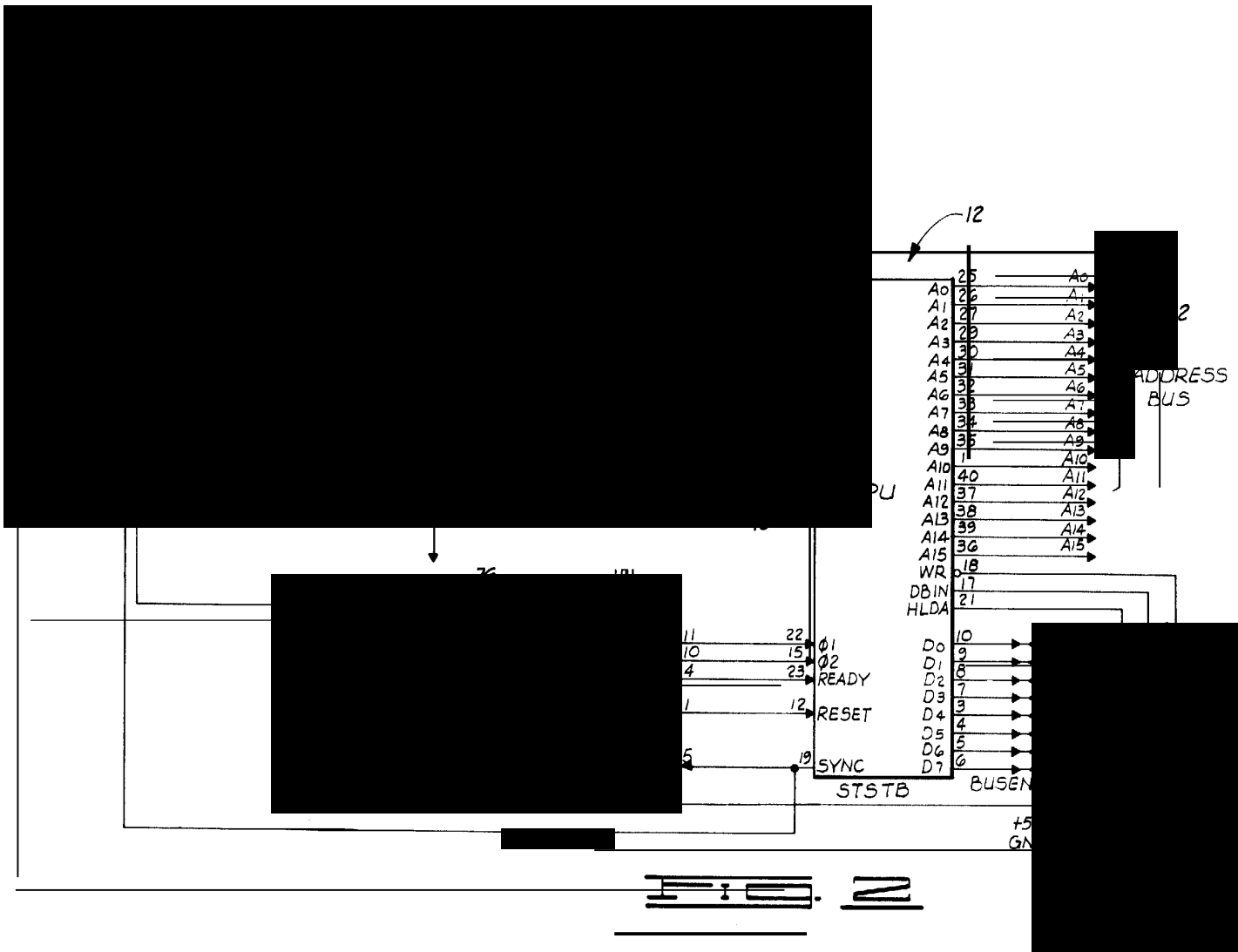
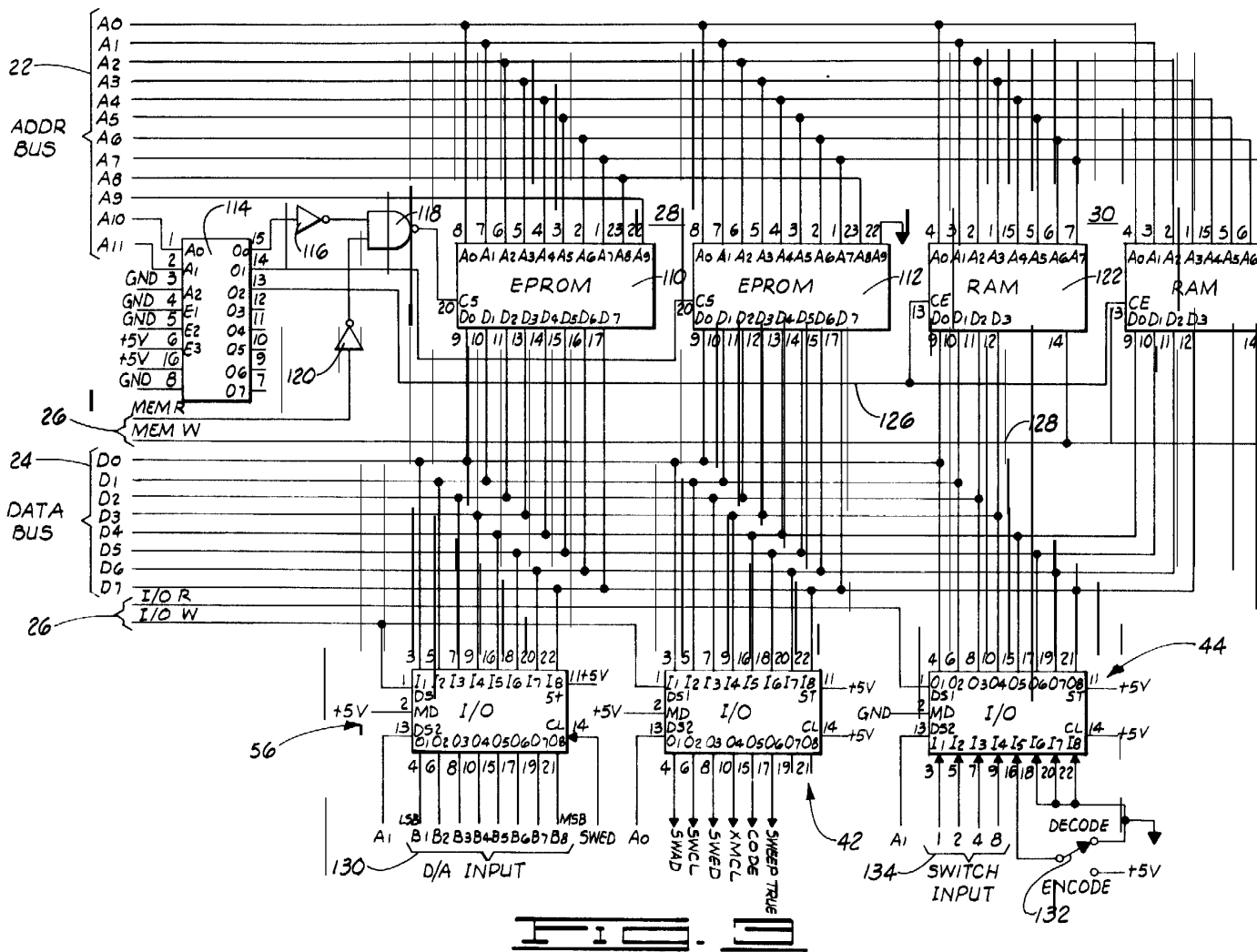


FIG. 2



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