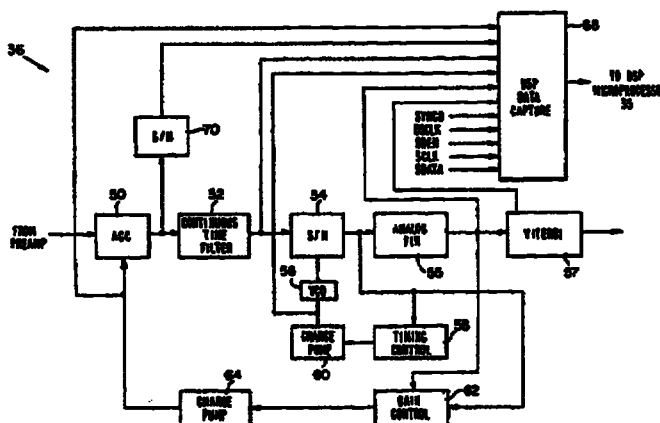


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(54) Title: SYSTEM AND METHOD FOR RECONSTRUCTING A SIGNAL WAVE IN A PARTIAL RESPONSE READ CHANNEL**(57) Abstract**

A read channel is described for use in a storage device including a storage medium (22a-d) for storing data, an interactive element (24a-h) for reading information from and writing information on the storage medium (22a-d) and a processor (35) for performing control functions in the storage device. The read channel comprises a set of electronic components (50-64) for receiving and processing information read by the interactive element from the storage medium. Each component of the set of electronic components includes an output and is coupled in a predetermined arrangement to other components of the set of electronic components. A data capture circuit (68) includes an input circuit (200) and an output circuit (202) with the input circuit being coupled to the output of each component of the set of electronic components, and the output circuit being coupled to the input circuit to capture a signal from a preselected one of the outputs coupled to the input circuit. The output circuit (202) is adaptable to transfer the acquired signal to the processor (35).