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(71) Applicant: **SAMSUNG ELECTRONICS CO., LTD.**, Suwon-si (KR)

(72) Inventor: **Gaurav Malhotra**, Cupertino, CA (US)

(73) Assignee: **SAMSUNG ELECTRONICS CO., LTD.**, Suwon-si (KR)

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ABSTRACT

A clock and data recovery (CDR) system includes a correlator configured to receive data, determine a first value of the received data, and output a second value corresponding to the received data, an accumulator configured to generate an accumulation value by accumulating the second value output from the correlator and output the accumulation value, and a state machine configured to determine whether a repeating pattern is present in the CDR system based on the accumulation value.

