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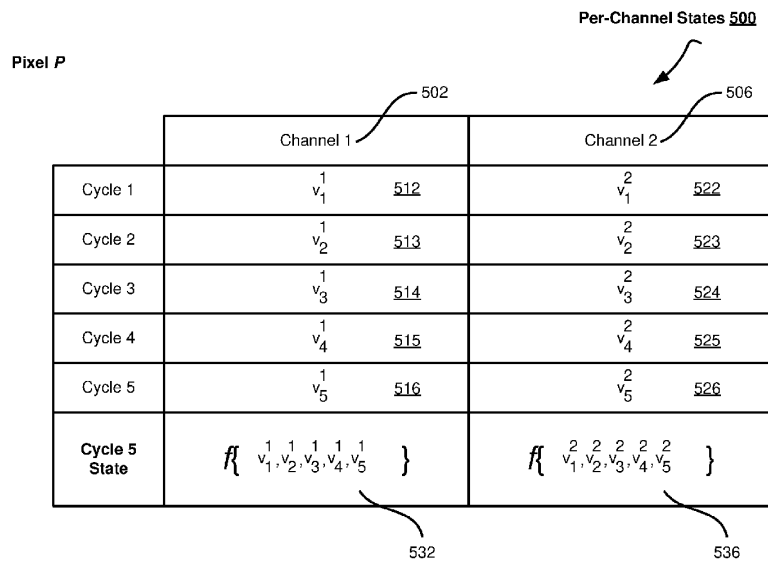
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(54) Title: STATE-BASED BASE CALLING



$f = \text{AVG, MAX, MIN, EXPWEGAVG, MOVAVG, EXPMOVAVG, STDEV}$

Figure 5

(57) Abstract: The technology disclosed relates to state-based base calling. In particular, the technology disclosed relates to incorporating state information about data from previous sequencing cycles into the analysis of data from a current sequencing cycle when generating a base call for the current sequencing cycle. For example, when generating a base call for an Nth sequencing cycle, the technology disclosed can incorporate into the base calling logic state information about data from sequencing cycles 1 to N-1.

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