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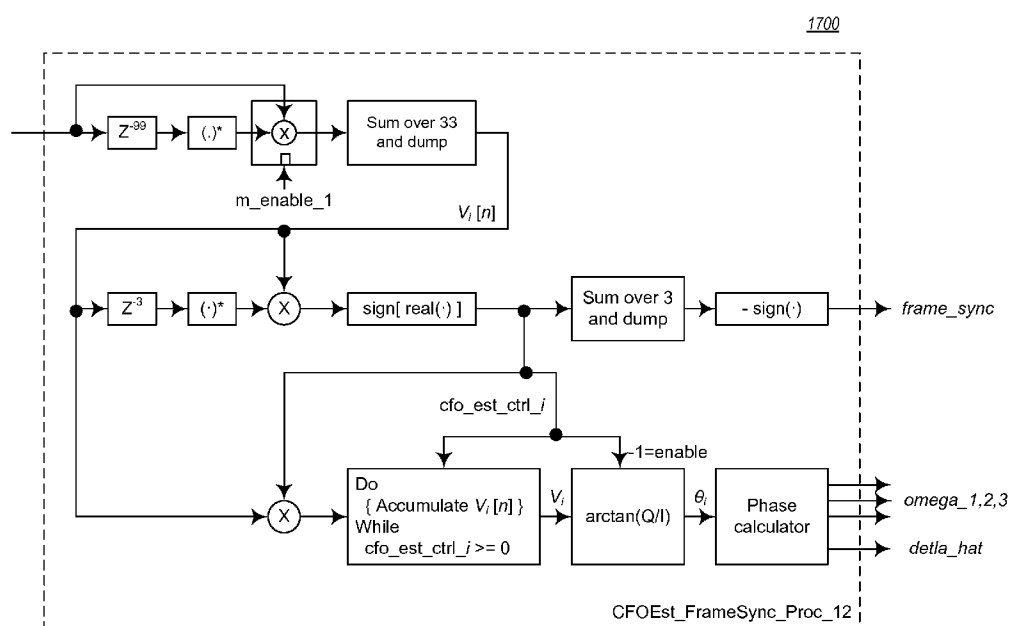
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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR CARRIER FREQUENCY OFFSET ESTIMATION AND FRAME SYNCHRONIZATION IN A WIRELESS COMMUNICATIONS SYSTEM



(57) Abstract: A method for performing carrier frequency offset estimation and frame synchronization is disclosed herein. In one approach, the method includes performing a first level frequency discrimination on at least one estimated channel tap to generate a frequency discriminated value; estimating a phase error from the frequency discriminated value; and, detecting a predetermined frame synchronization pattern from the frequency discriminated value. A computer program product having code and a wireless communications apparatus for performing the method are also described herein.

WO 2008/052192 A1



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