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(54) **MATRIX COMPUTATION ENGINE**

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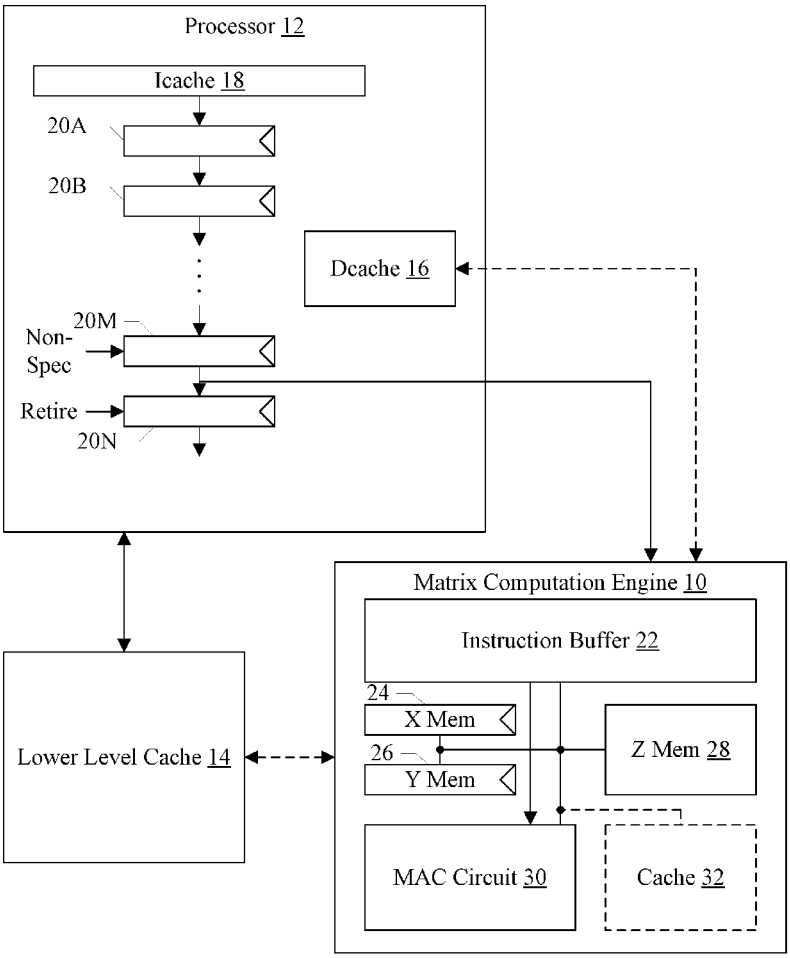
(57) **ABSTRACT**

In an embodiment, a matrix computation engine is configured to perform matrix computations (e.g. matrix multiplications). The matrix computation engine may perform numerous matrix computations in parallel, in an embodiment. More particularly, the matrix computation engine may be configured to perform numerous multiplication operations in parallel on input matrix elements, generating resulting matrix elements. In an embodiment, the matrix computation engine may be configured to accumulate results in a result memory, performing multiply-accumulate operations for each matrix element of each matrix.