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(54) **ELECTRONIC DEVICE FOR PERFORMING
TOKEN PRUNING IN FREQUENCY DOMAIN
AND METHOD FOR OPERATING THE
SAME**

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(57) **ABSTRACT**

According to various embodiment of the present disclosure, an electronic device for performing token pruning in a frequency domain may include a processor, and the processor may be configured to divide an image frame into a plurality of patches, convert tokens based on the plurality of patches from a spatial domain to a frequency domain through a fast Fourier transform (FFT)-based frequency domain conversion algorithm, the tokens being output from a predetermined transformer block among a plurality of transformer blocks, after performing patch embedding on the plurality of patches, and convert the remaining tokens other than specific tokens from the frequency domain to the spatial domain, after pruning specific tokens from the tokens based on frequency information of the tokens converted into the frequency domain. Various other embodiments are also possible.

