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(54) **Title:** METHOD AND APPARATUS FOR MULTI-LEARNING RATES OF SUBSTITUTION IN NEURAL IMAGE COMPRESSION

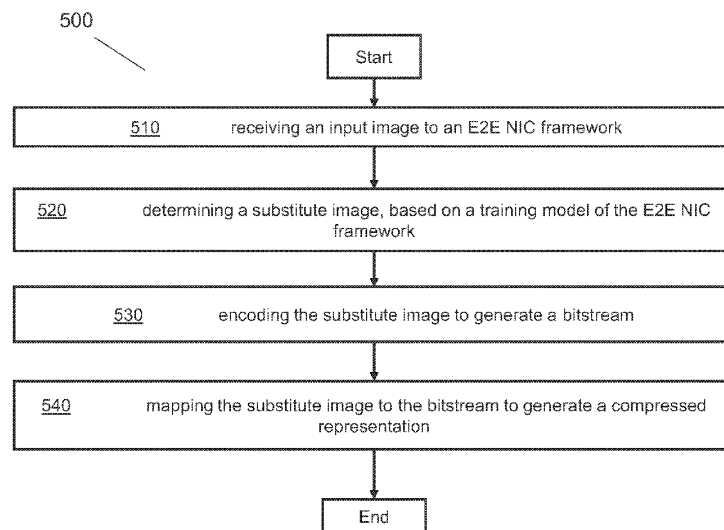


FIG. 5

(57) **Abstract:** Neural network based substitutional end-to-end (E2E) image compression (NIC) being performed by at least one processor and includes receiving an input image to an E2E NIC framework, determining a substitute image based on a training model of the E2E NIC framework, encoding the substitute image to generate a bitstream, mapping the substitute image to the bitstream to generate a compressed representation of the input image. Further, the input may be partitioned into blocks for which a substitute representation is determined for each block and each block is encoded instead of the entire substitute image.

[Continued on next page]

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