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(54) Title: DEVICE MANAGEMENT IN AN ELECTRIC POWER GRID

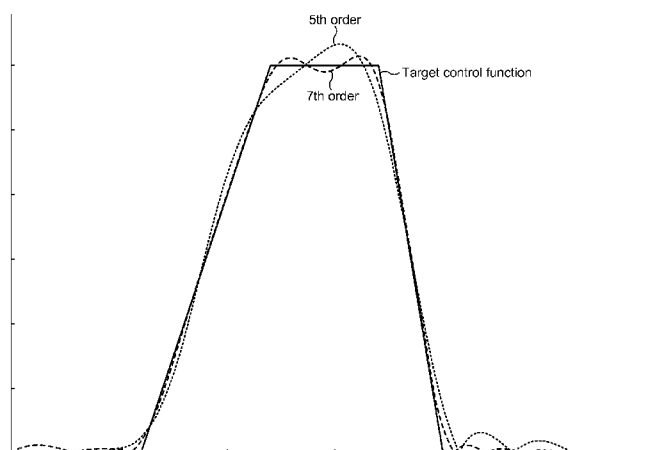


FIG. 14

(57) Abstract: Methods and apparatuses for controlling one or more electricity characteristics of electricity flowing in an electric power grid are described. Data indicative of a control function representing characteristics of a contribution to the one or more electricity characteristics to be made by a distributed plurality of power units during a control period is provided to the distributed plurality of power units. The power units individually determine and provide a contribution to the one or more electricity characteristics based on the received control function and profile information relating to the power units. This saves processing resources at the central location providing the control function and/or communications bandwidth/ resources. Instructions sent from a control node to power units may include a frequency-domain representation of the contribution. The control node may perform a transform process to transform the time- domain representation into a frequency-domain representation, the transform process comprising e.g. a Fourier Transform or a wavelet transform.

