



(54) **APPARATUS FOR CONTROLLING AN EQUALIZER, SIGNAL PROCESSING SYSTEM, RECEIVER, BASE STATION, MOBILE DEVICE, METHOD FOR CONTROLLING AN EQUALIZER**

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(57) **ABSTRACT**

An apparatus for controlling an equalizer is provided. The apparatus comprises interface circuitry configured to receive at least one of an input signal and an output signal of the equalizer. The apparatus further comprises processing circuitry configured to determine at least one signal metric based on the at least one of the input signal and the output signal of the equalizer, select an operating mode of the equalizer from a plurality of different operating modes based on the determined signal metric, and control the equalizer to operate in the selected operating mode.

