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(54) Title: OUTPUT POWER CONTROL FOR A BEAMFORMING TRANSMISSION SYSTEM

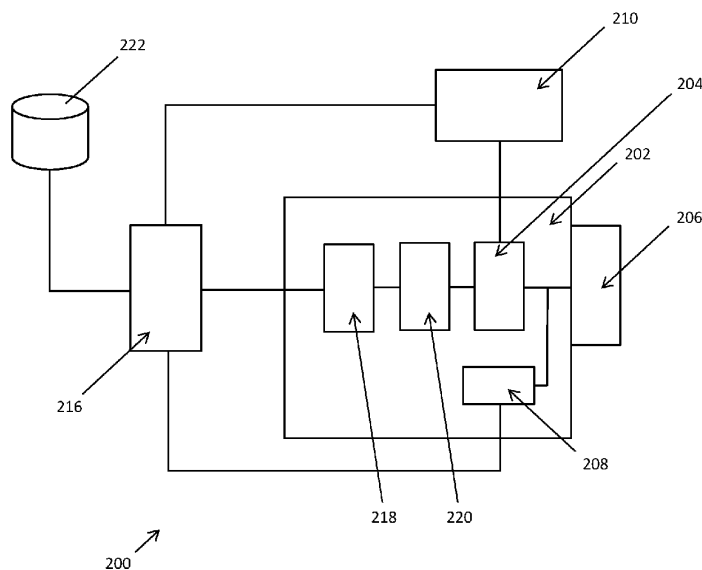


FIG. 2

(57) Abstract: A beamforming transmission system and a method of controlling an output power of a beamforming transmission system are disclosed, the system comprising one or more transmission elements, the one or more transmission elements each comprising a power amplifier; an antenna coupled to the power amplifier; and a power detector coupled to the antenna; a power controller coupled to the power amplifier; a system processing module coupled to the one or more transmission elements, the system processing module further coupled to the power controller, the system processing module being arranged to instruct the power controller to control an output power of the power amplifier; wherein the system processing module is arranged to determine a desired beam scanning angle of the one or more transmission elements and to obtain a present output power of the power amplifier from the power detector; and further wherein the system processing module is arranged to instruct the power controller to control the output power of the power amplifier

[Continued on next page]

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based on both the desired beam scanning angle and the present output power of the power amplifier.