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Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

[Continued on next page]

(54) Title: DYNAMIC IOT SETPOINTS AND INTERFERENCE CONTROL

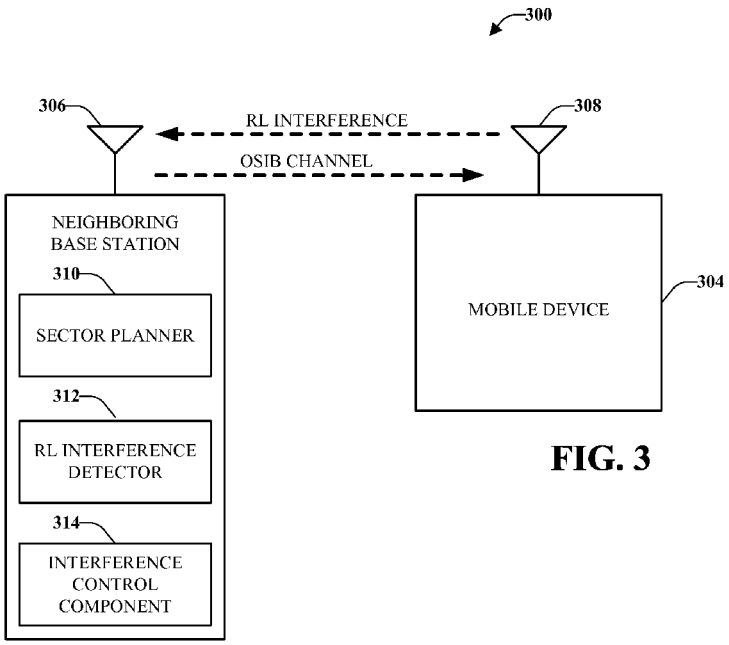

FIG. 3

(57) Abstract: Reverse link interference can be controlled by utilizing a dynamic and changeable IoT setpoint, which is a quantitative measurement of total interference received at a base station. The interference can occur when a mobile device in an adjacent sector is communicating over the reverse link. The IoT setpoint can be changed based on conditions occurring in the sector and/or scheduling information for the future. A fast up indicator (Up+) can be transmitted for reverse link interference, which allows the receiving device to take advantage of the fact that additional interference created will not affect the sector. An interference control action can be transmitted in an Other Sector Interference Bit (OSIB) channel over the air or over the backhaul. The interference control action can be determined as a function of the dynamic IoT setpoint.

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