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(54) **UPLINK POWER CONTROL FOR WIRELESS SYSTEMS**

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(57) **ABSTRACT**

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455/447, 449, 453, 442-445, 450-452.2,
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See application file for complete search history.

Techniques are described that can be used to determine a transmitter power level of a mobile station at cell edge. To determine transmitter power level, the technique considers at least a balance of power transmitted by mobile stations near cell edge and power transmitted by mobile stations closer to cell center, target mean received power by the base station from mobile stations near center cell, target mean power transmitted from cell edge mobile stations, signal-to-interference-power ratio between signals transmitted from base stations of different cells to the mobile station at cell edge, and channel gain.

21 Claims, 2 Drawing Sheets

