

Exhibit 5



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Bergljung et al.

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(54) **METHOD AND ARRANGEMENT IN A
CELLULAR COMMUNICATIONS SYSTEM**

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H04K 1/10 (2006.01)

(52) **U.S. Cl.** **375/260; 375/268; 455/59**

(58) **Field of Classification Search** **375/260**
See application file for complete search history.

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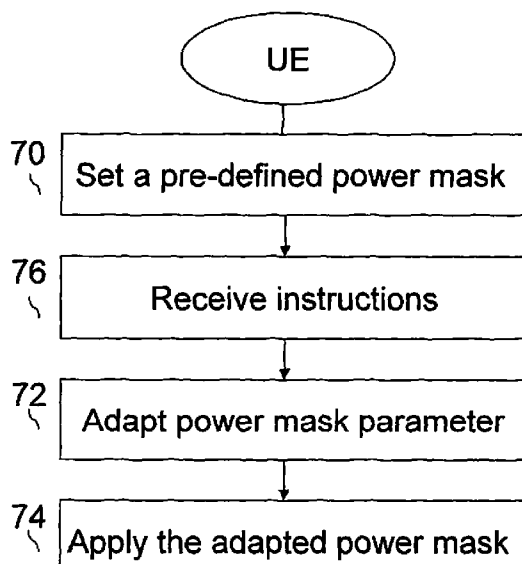
Primary Examiner — Chieh M Fan

Assistant Examiner — Santiago Garcia

(57) **ABSTRACT**

The present invention relates to the area of wireless communication, and especially to a method and an arrangement for transmission output power control in a cellular telecommunications network. An improved transmission output power control is achieved by adapting a pre-defined power mask to a signal transmission characteristic of the signal transmission and applying the adapted power mask to a sub-frame or an OFDM symbol. The present invention could be implemented in a network node such as an eNodeB or in a user equipment.

30 Claims, 12 Drawing Sheets



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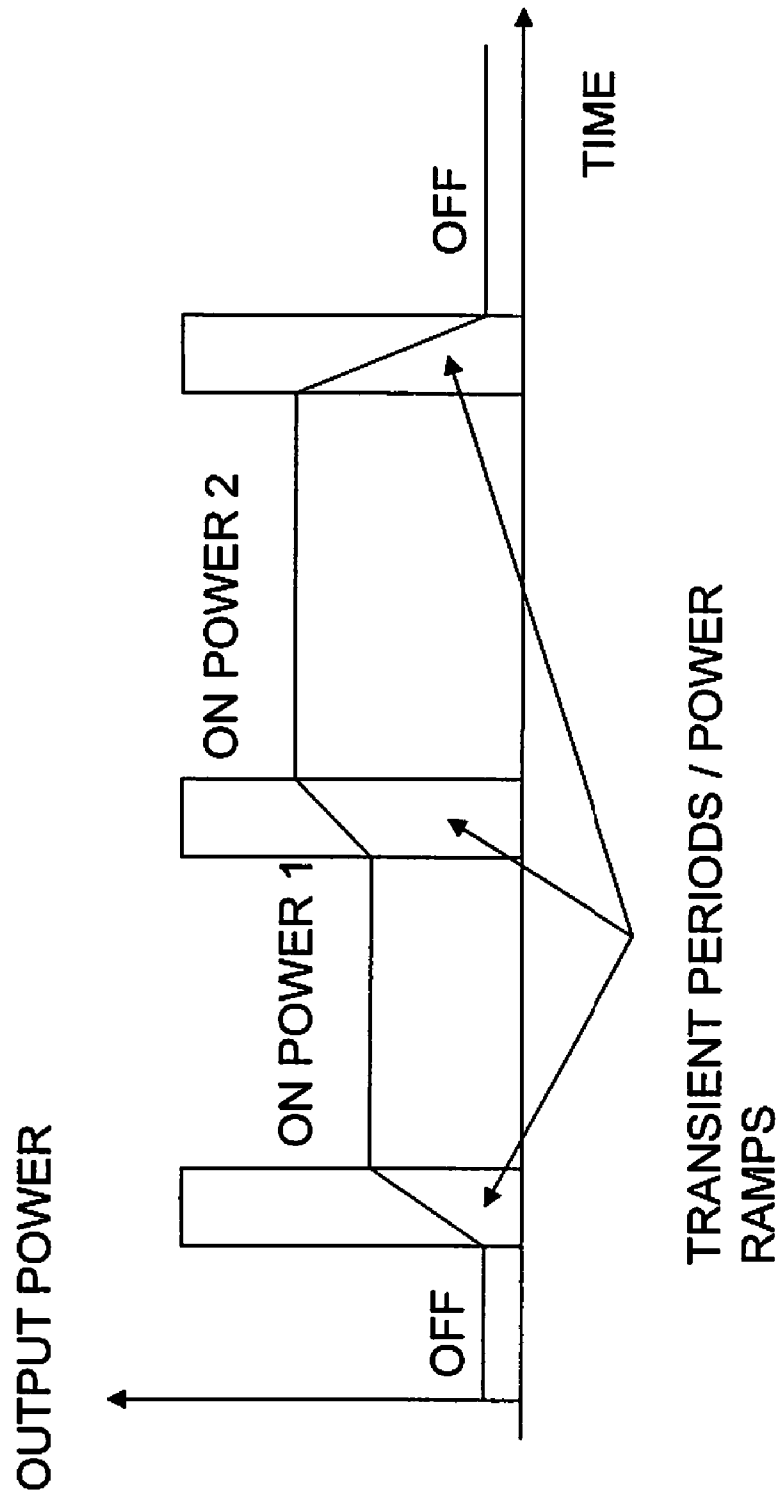


Fig. 1

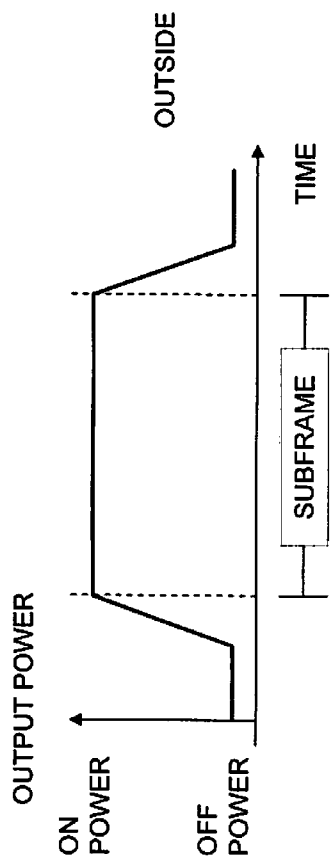


Fig. 2a

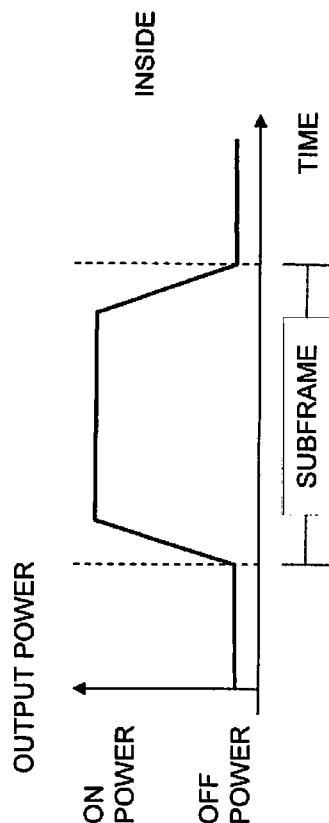


Fig. 2b

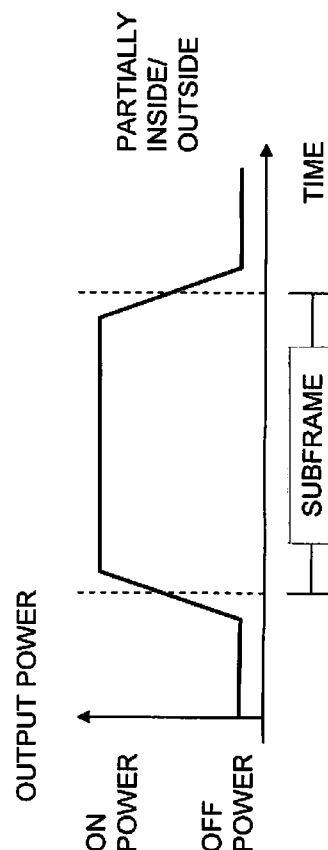


Fig. 2c

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