

# Exhibit 5



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**Bergljung et al.**

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

(56) **References Cited**

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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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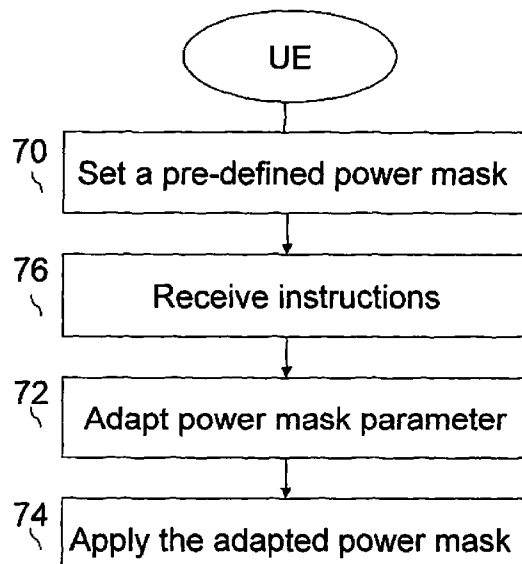
(Continued)

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*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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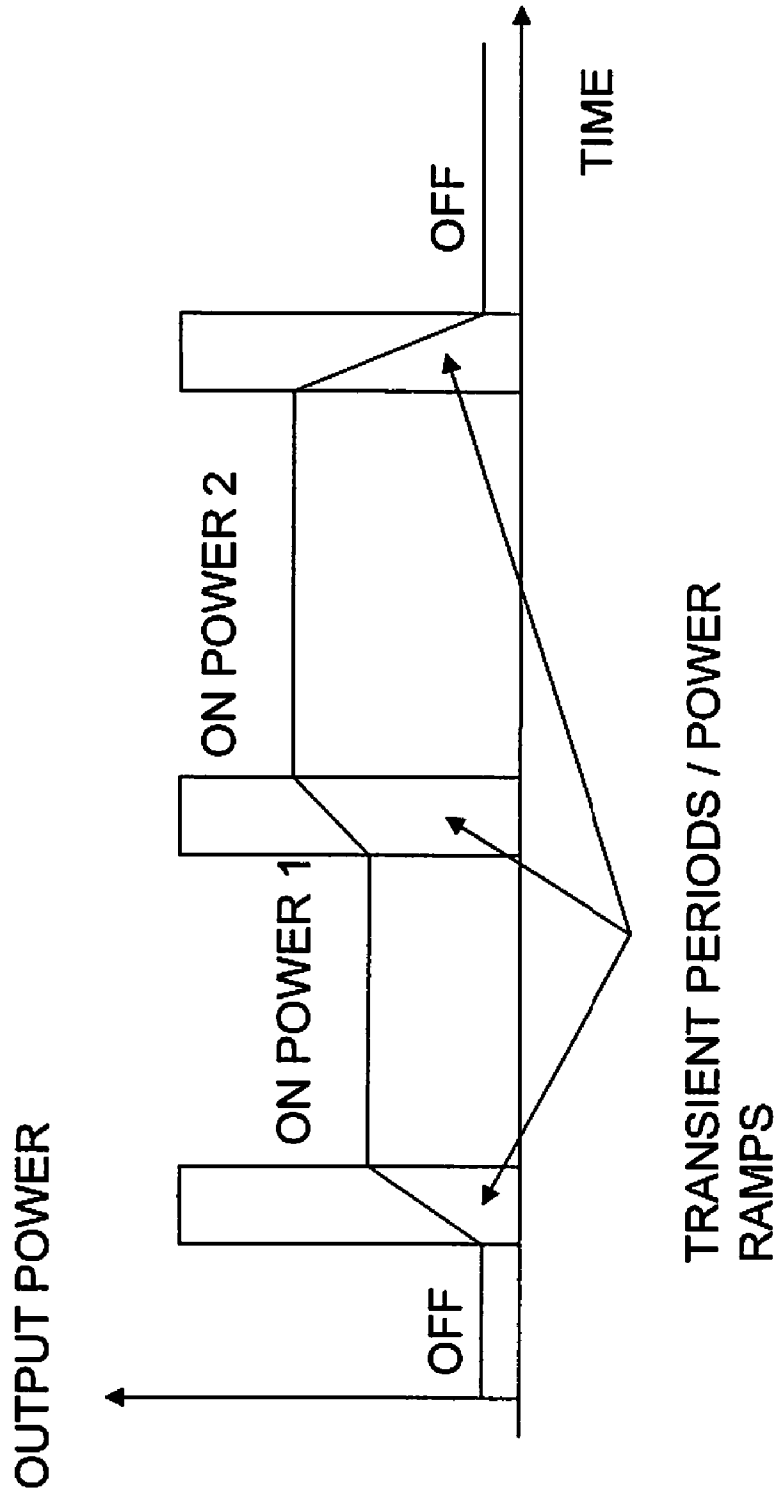


Fig. 1

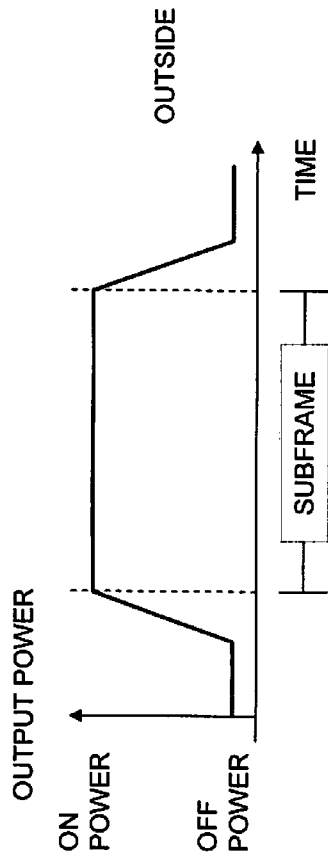


Fig. 2a

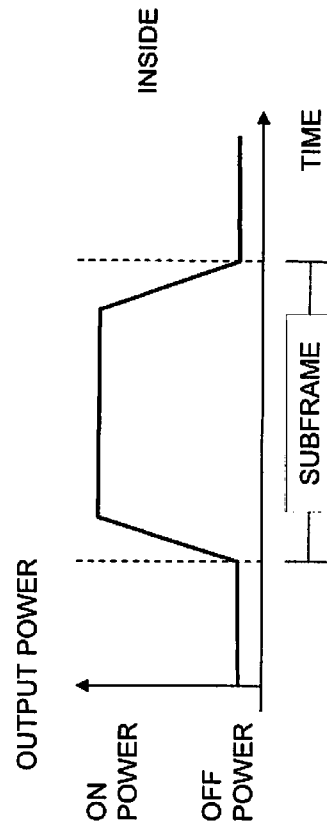


Fig. 2b

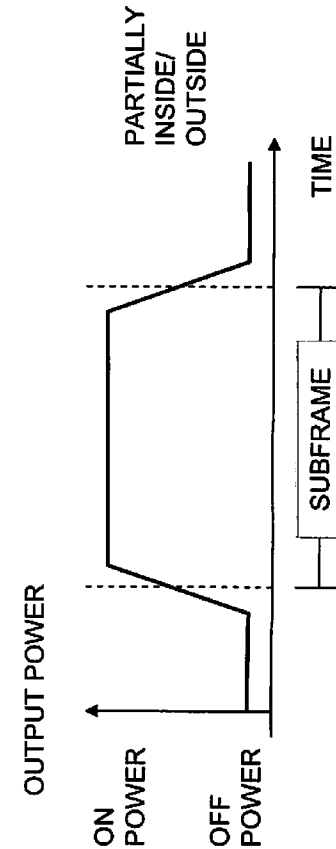


Fig. 2c

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