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**Howard**

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(54) **COMMUNICATIONS IN A WIRELESS NETWORK**

(71) Applicant: **Intellectual Ventures II LLC**,  
Wilmington, DE (US)

(72) Inventor: **Paul Howard**, Bristol (GB)

(73) Assignee: **Intellectual Ventures II LLC**,  
Wilmington, DE (US)

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(51) **Int. Cl.**

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**H04W 72/04** (2023.01)  
**H04W 72/12** (2023.01)  
**H04W 52/14** (2009.01)  
**H04J 3/16** (2006.01)

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(2013.01); **H04L 5/0053** (2013.01); **H04W**  
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(58) **Field of Classification Search**

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See application file for complete search history.

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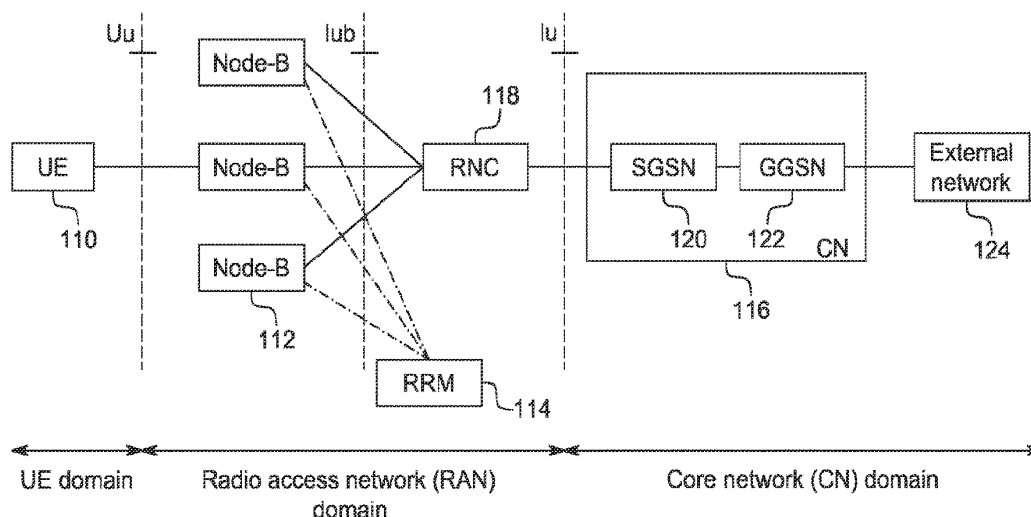
*Primary Examiner* — Ronald B Abelson

(74) *Attorney, Agent, or Firm* — Volpe Koenig

(57) **ABSTRACT**

A user equipment (UE) is configured to receive a control message over a physical control channel in a first time slot, wherein the control message has power control bits for a plurality of UEs, wherein the plurality of UEs include the first UE. The UE is further configured to extract power control information for the first UE from the control message, and to transmit a signal over a physical control channel to a base station in a second time slot at a transmission power level based on the extracted power control information.

**16 Claims, 5 Drawing Sheets**



**Related U.S. Application Data**

continuation of application No. 17/339,550, filed on Jun. 4, 2021, now Pat. No. 11,239,908, which is a continuation of application No. 16/682,854, filed on Nov. 13, 2019, now Pat. No. 11,032,000, which is a continuation of application No. 14/458,693, filed on Aug. 13, 2014, now Pat. No. 11,044,010, which is a continuation of application No. 13/176,298, filed on Jul. 5, 2011, now Pat. No. 8,811,356, which is a continuation of application No. 11/646,692, filed on Dec. 27, 2006, now Pat. No. 8,009,639.

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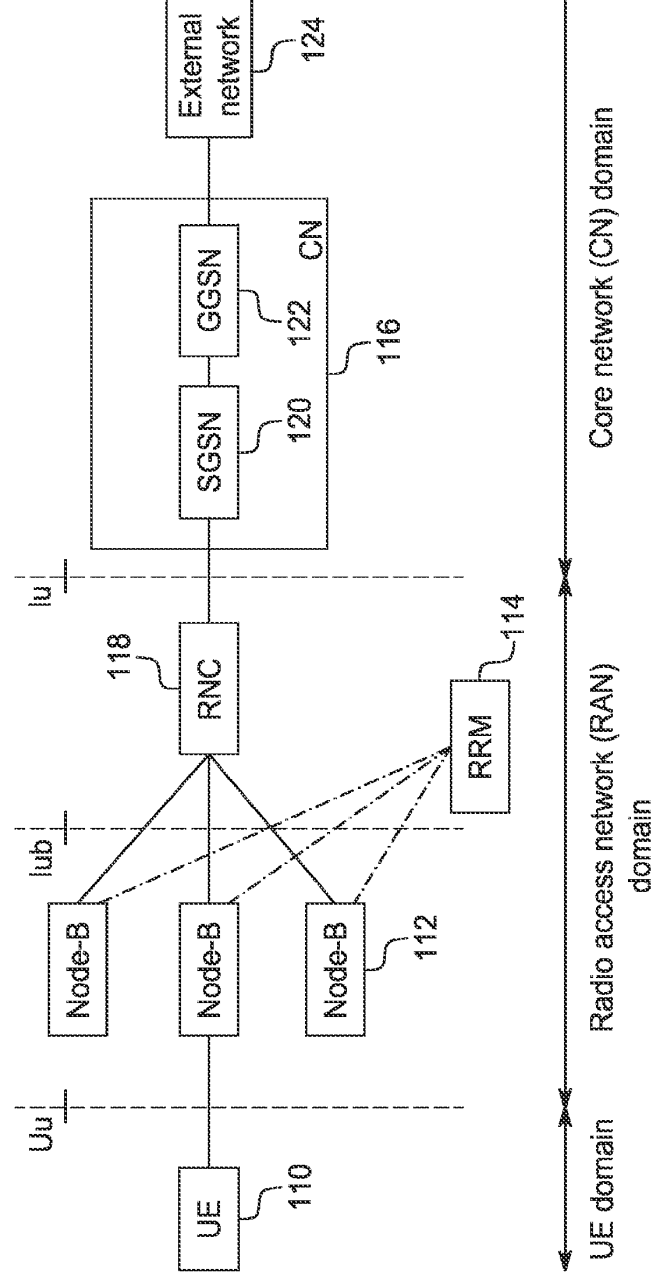


FIG. 1

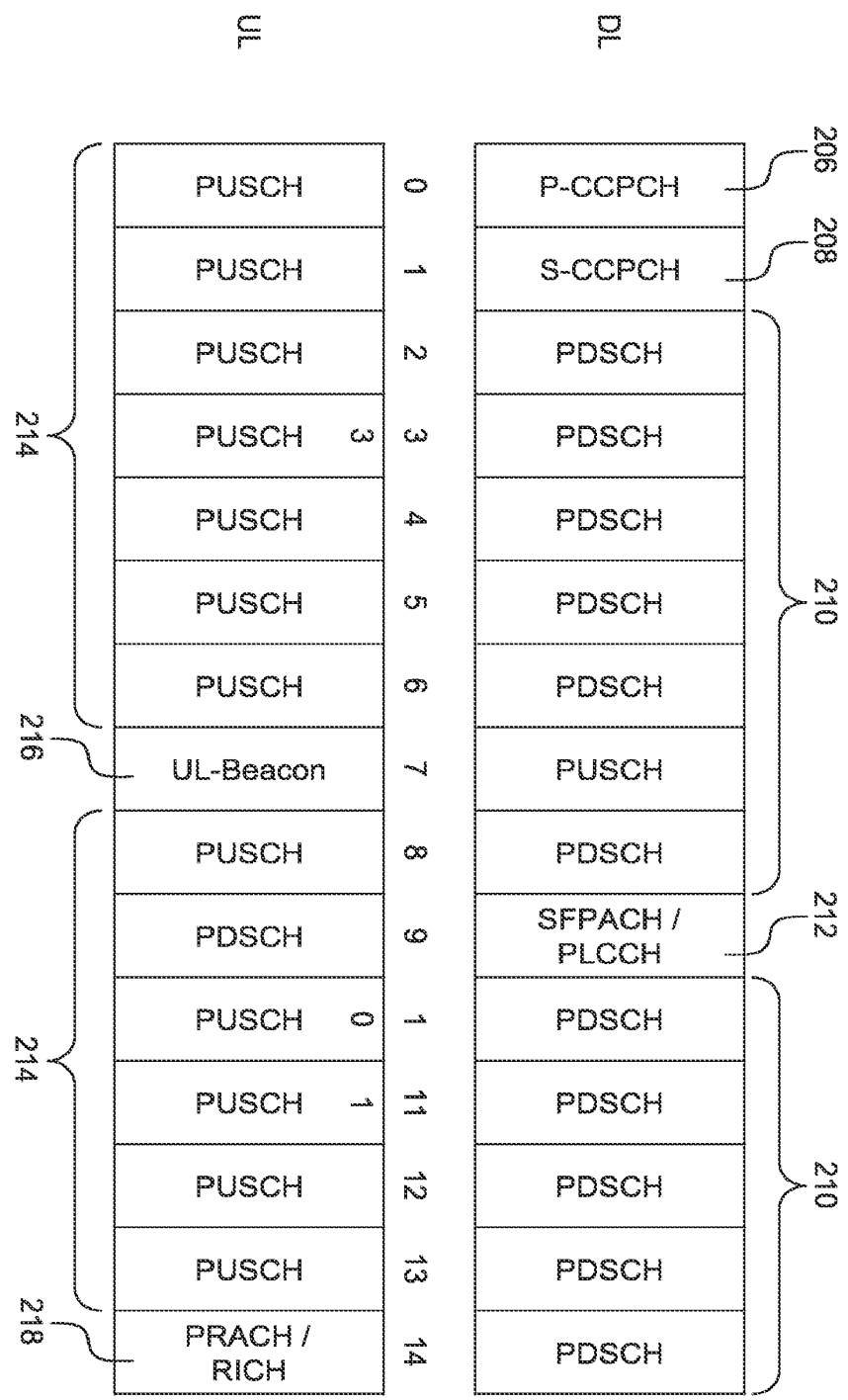


FIG. 2

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