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# Exhibit "B"

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US008848556B2

## (12) United States Patent

#### Wu et al.

#### (54) CARRIER AGGREGATION WITH POWER HEADROOM REPORT

- (75) Inventors: Chunli Wu, Beijing (CN); Benoist Pierre Sebire, Tokyo (JP)
- (73) Assignee: Cellular Communications Equipment LLC, Plano, TX (US)
- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 743 days.
- (21) Appl. No.: 13/164,266
- (22) Filed: Jun. 20, 2011

#### (65) Prior Publication Data

US 2011/0310760 A1 Dec. 22, 2011

#### **Related U.S. Application Data**

- (60) Provisional application No. 61/356,867, filed on Jun. 21, 2010.
- (51) Int. Cl. *H04L 1/00* (2006.01) *H04L 12/26* (2006.01)

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## (45) **Date of Patent:** Sep. 30, 2014

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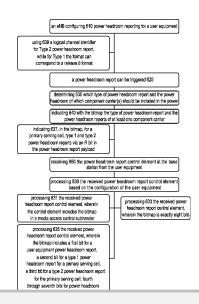
Primary Examiner — Ronald Abelson

(74) Attorney, Agent, or Firm - Martin & Ferraro, LLP

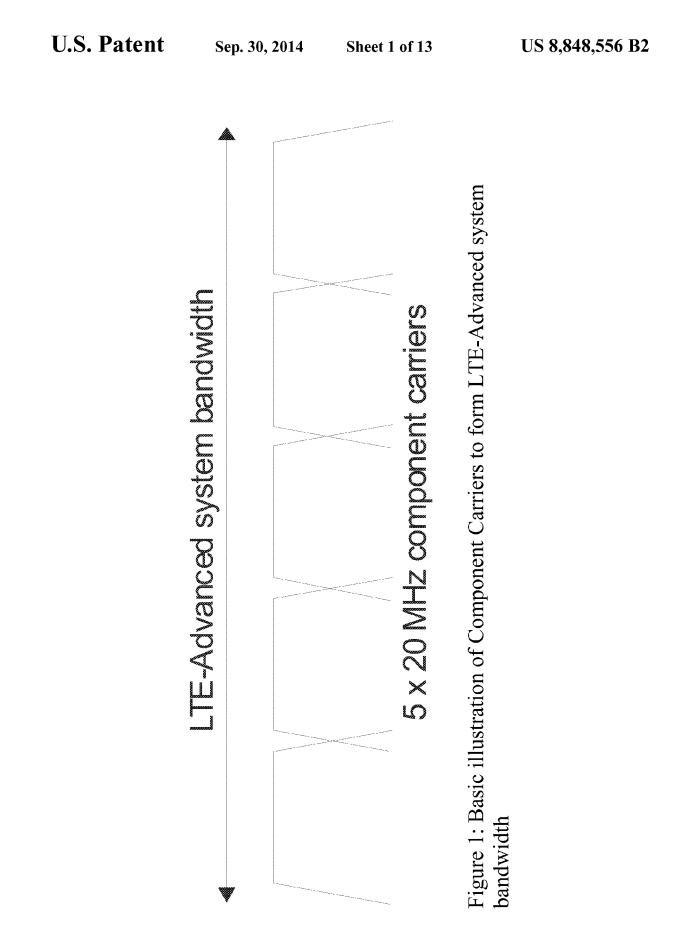
#### (57) ABSTRACT

Methods, apparatuses, and software can be used for providing power headroom reporting in a telecommunication system. A method can include configuring a user equipment to send a power headroom report control element in uplink, wherein the power headroom report control element includes a bitmap indicating which power headroom reports are being reported. The method can further include receiving the power headroom report control element from the user equipment. The method additionally can include processing the received power headroom report control element based on the configuration of the user equipment.

#### 24 Claims, 13 Drawing Sheets



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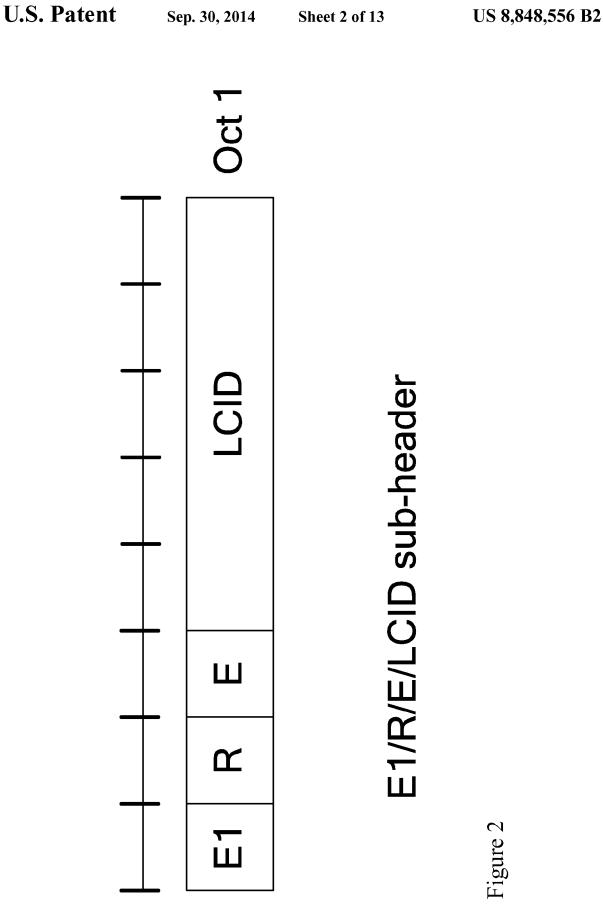


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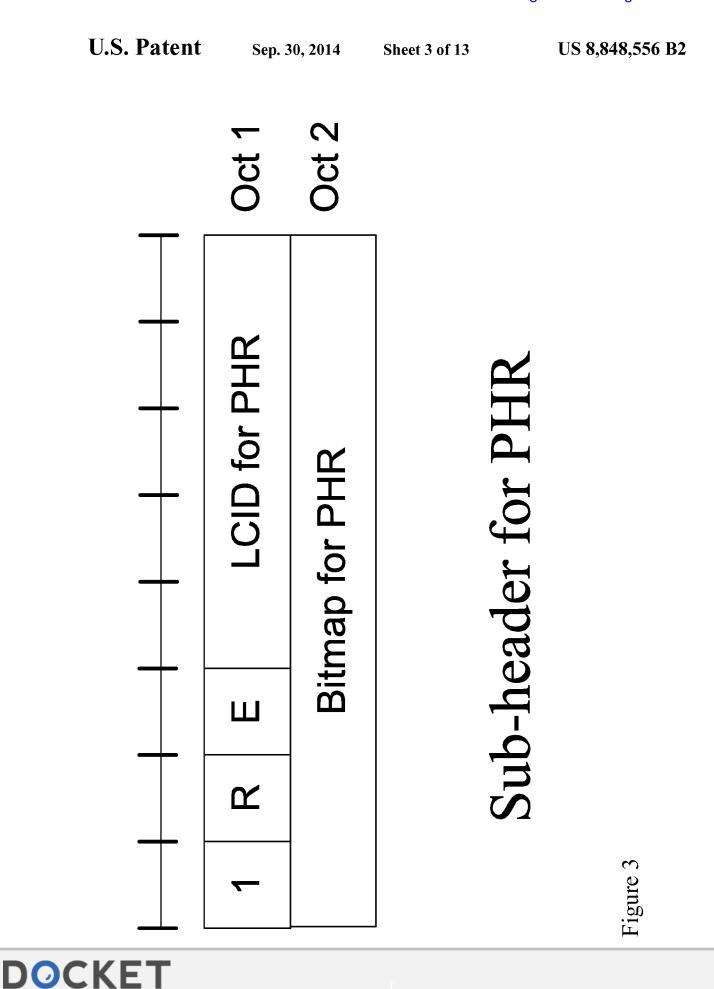
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