



US 20160192292A1

(19) **United States**

(12) **Patent Application Publication**  
**Höglund et al.**

(10) **Pub. No.: US 2016/0192292 A1**

(43) **Pub. Date: Jun. 30, 2016**

(54) **NETWORK NODE AND MOBILE DEVICE FOR USE IN A COMMUNICATION NETWORK, METHODS OF OPERATING THE SAME AND COMPUTER PROGRAM PRODUCTS**

**Publication Classification**

(51) **Int. Cl.**  
*H04W 52/02* (2006.01)  
*H04W 68/00* (2006.01)  
*H04W 76/04* (2006.01)  
(52) **U.S. Cl.**  
CPC ..... *H04W 52/0216* (2013.01); *H04W 76/048* (2013.01); *H04W 68/00* (2013.01)

(71) Applicant: **TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)**, Stockholm (SE)

(72) Inventors: **Andreas Höglund**, Solna (SE); **Gunnar Mildh**, Sollentuna (SE); **Tuomas Tirronen**, Helsinki (FI); **Emre Yavuz**, Stockholm (SE)

(57) **ABSTRACT**

According to one aspect, there is provided a method of operating a network node in a communication network with the communication network comprising at least one mobile device that is operating in a discontinuous reception, DRX, mode with a DRX cycle length that is longer than a modification period in the network. In the method, when an update to system information is to occur in an updated information modification period, the modification period immediately preceding the updated information modification period comprising a change notification modification period, a paging message is transmitted to the mobile device during a modification period other than the change notification modification period and the updated information modification period, the paging message informing the mobile device that an update to system information is to occur in the updated information modification period.

(21) Appl. No.: **14/909,778**

(22) PCT Filed: **Jul. 4, 2014**

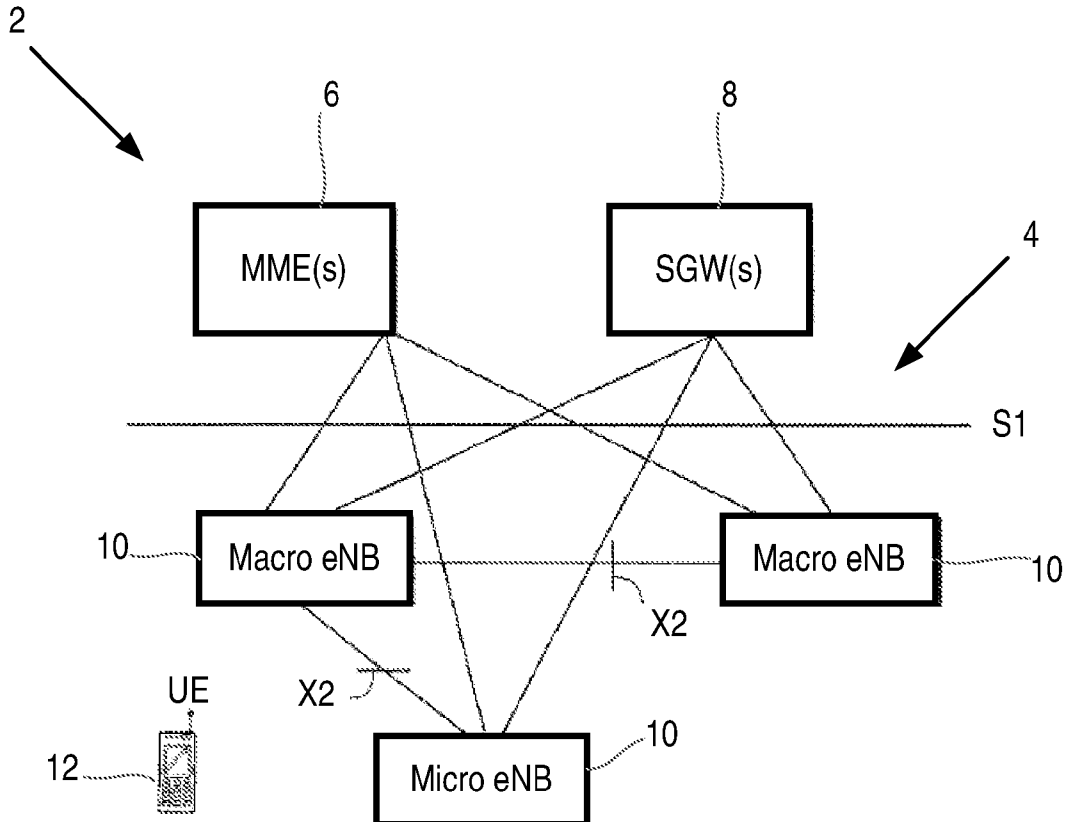
(86) PCT No.: **PCT/SE2014/050857**

§ 371 (c)(1),

(2) Date: **Feb. 3, 2016**

**Related U.S. Application Data**

(60) Provisional application No. 61/863,989, filed on Aug. 9, 2013.



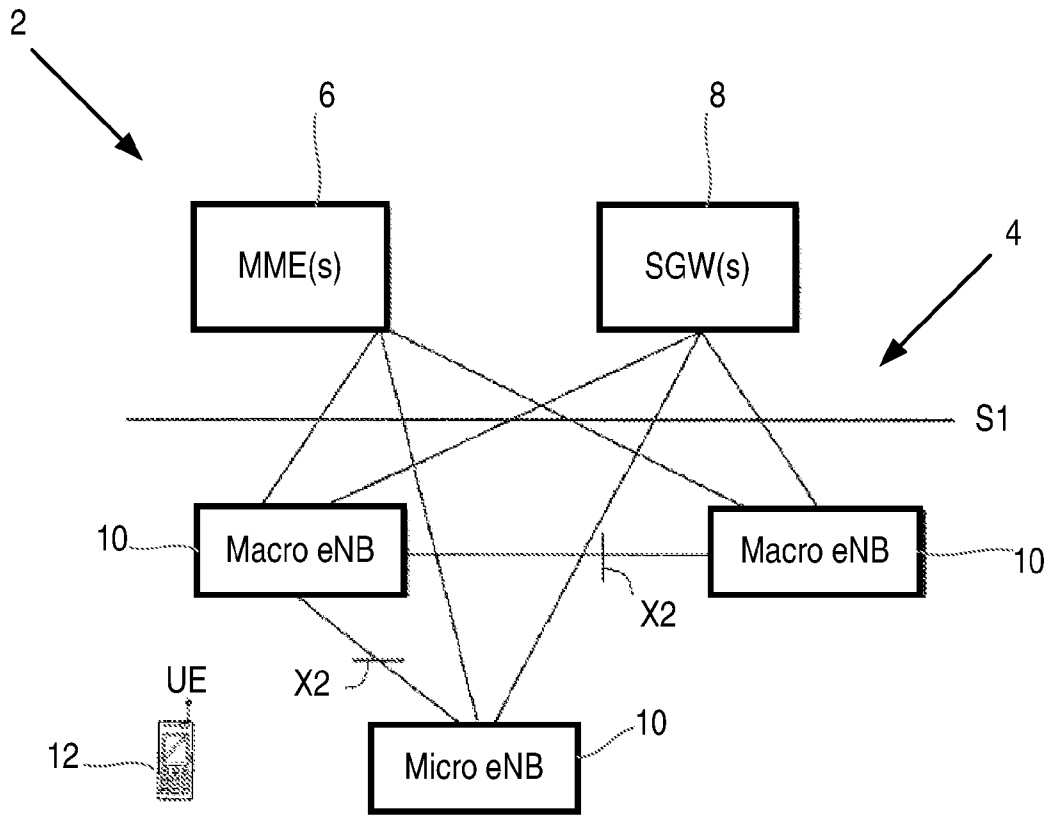


Figure 1

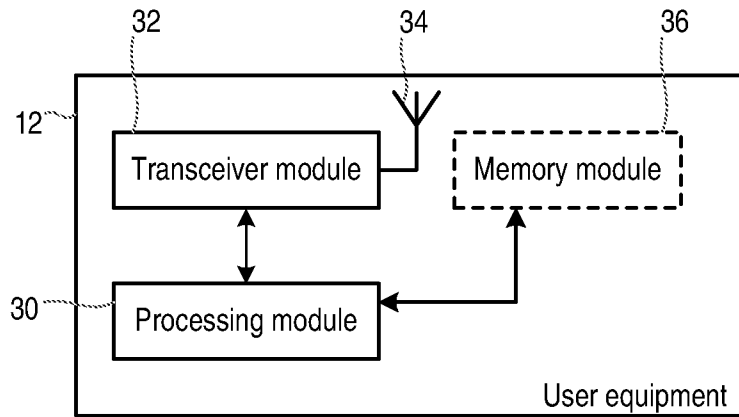


Figure 2

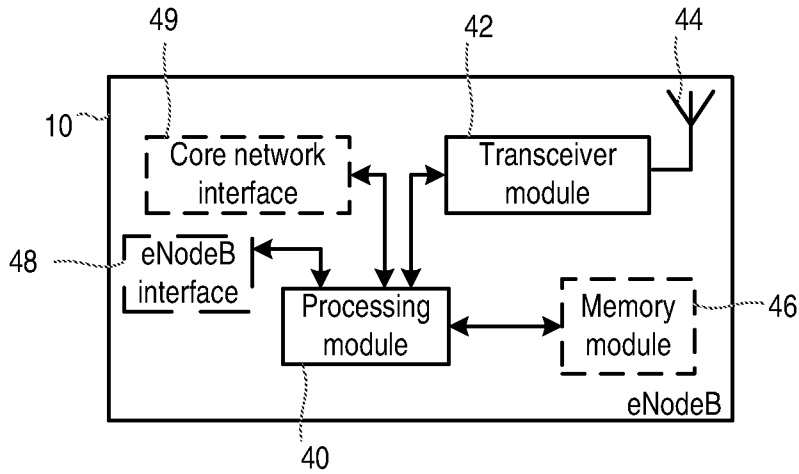


Figure 3

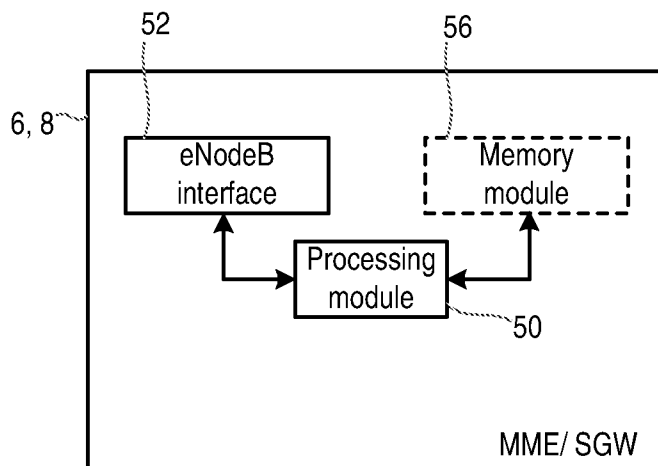


Figure 4

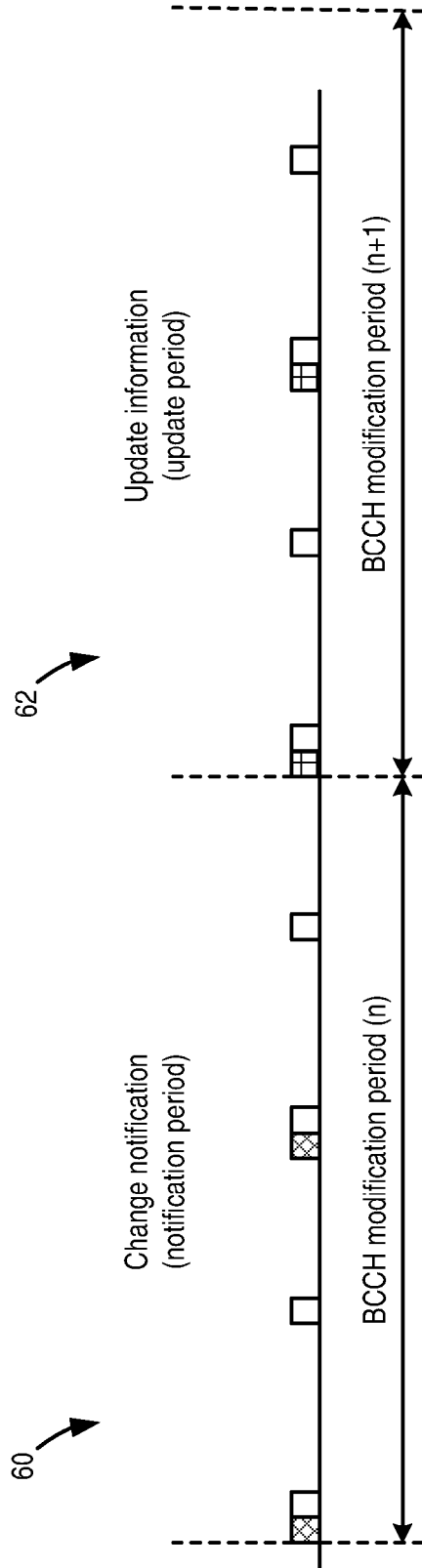


Figure 5

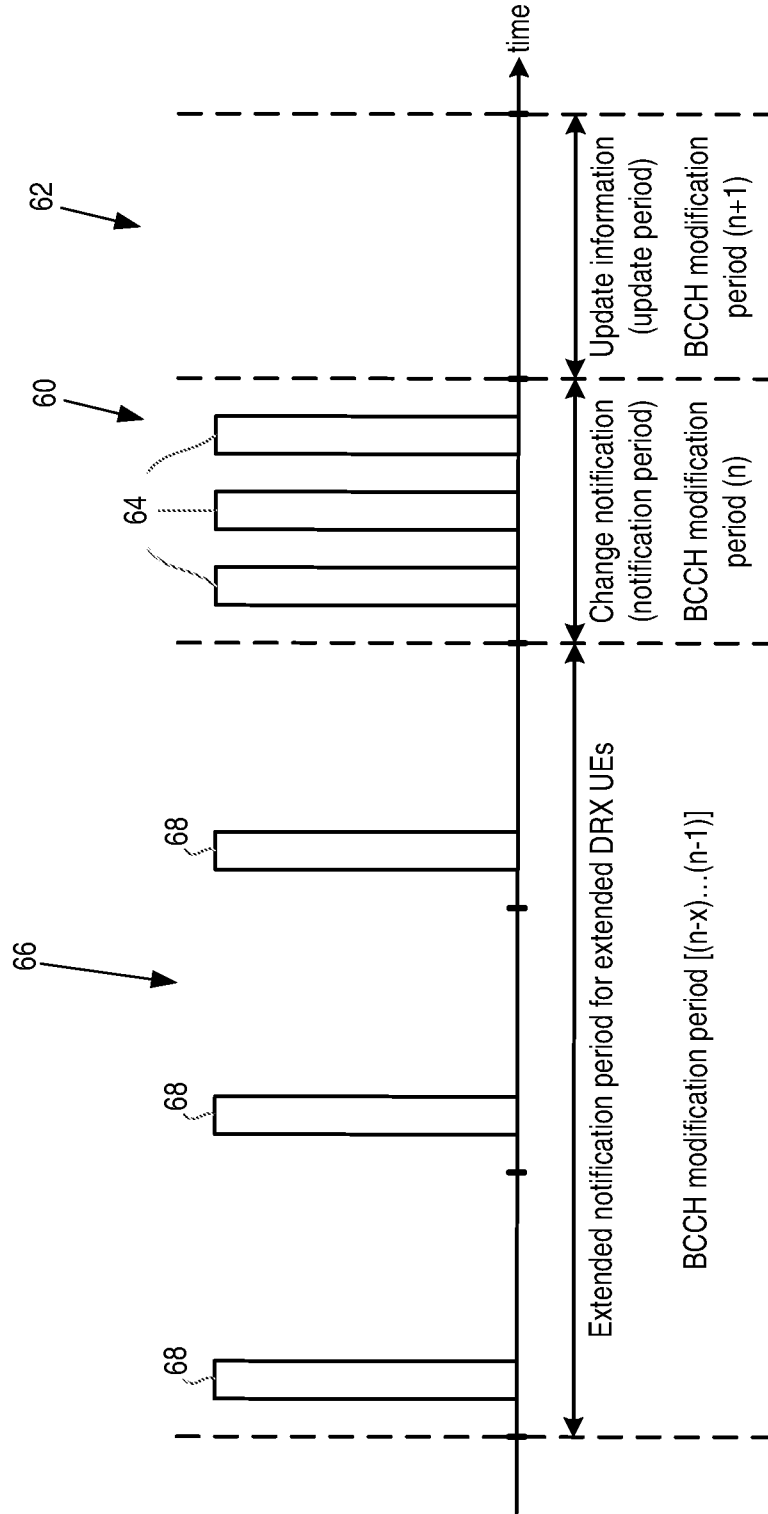


Figure 6

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.