



US 20080298315A1

(19) **United States**

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

(10) **Pub. No.: US 2008/0298315 A1**  
(43) **Pub. Date: Dec. 4, 2008**

(54) **METHOD OF TRANSMITTING AND RECEIVING INFORMATION OF ALLOCATING UPLINK REGION IN BROADBAND WIRELESS ACCESS**

Jun. 13, 2005 (KR) ..... 10-2005-0050367  
Jun. 14, 2005 (KR) ..... 10-2005-0051039  
Jul. 7, 2005 (KR) ..... 10-2005-0061432

(76) Inventors: **Bin Chul Ihm**, Anyang (KR); **Ki Seon Ryu**, Seoul (KR)

Correspondence Address:  
**LEE, HONG, DEGERMAN, KANG & WAIMEY**  
660 S. FIGUEROA STREET, Suite 2300  
LOS ANGELES, CA 90017 (US)

(21) Appl. No.: **11/910,441**  
(22) PCT Filed: **Mar. 30, 2006**  
(86) PCT No.: **PCT/KR2006/001160**  
§ 371 (c)(1),  
(2), (4) Date: **Jul. 23, 2008**

(30) **Foreign Application Priority Data**

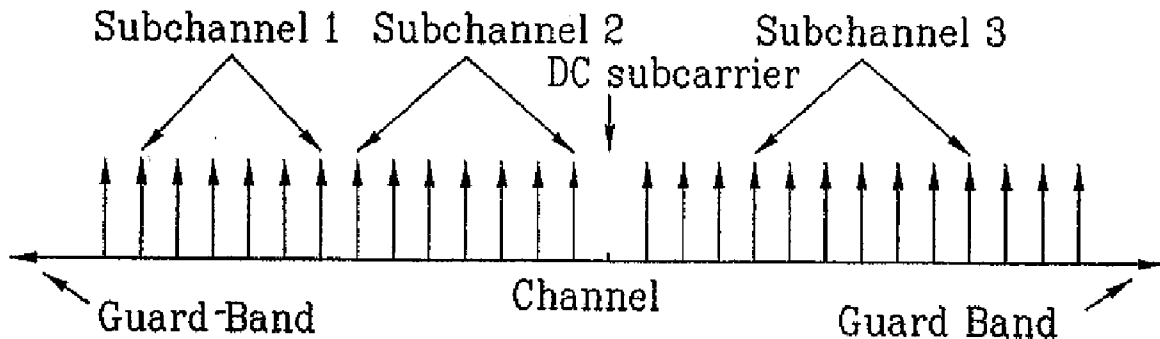
Mar. 30, 2005 (KR) ..... 10-2005-0026795  
Apr. 28, 2005 (KR) ..... 10-2005-0035404

**Publication Classification**

(51) **Int. Cl.**  
**H04Q 7/00** (2006.01)  
(52) **U.S. Cl.** ..... **370/329**

(57) **ABSTRACT**

A method of receiving the uplink region allocation information is disclosed. In a broadband wireless access system, in which a mobile terminal receives uplink region allocation information, the present invention includes the steps of receiving an uplink map message from which an uplink map information element (UL-MAP IE) for a ranging region or an uplink bandwidth request region is omitted from a base station and receiving information for a region for a ranging region or uplink bandwidth request using a message periodically transmitted for a control information transmission for an uplink channel. By transmitting uplink region allocation information via a periodically transmitted message, the uplink region allocation information can be efficiently transmitted.



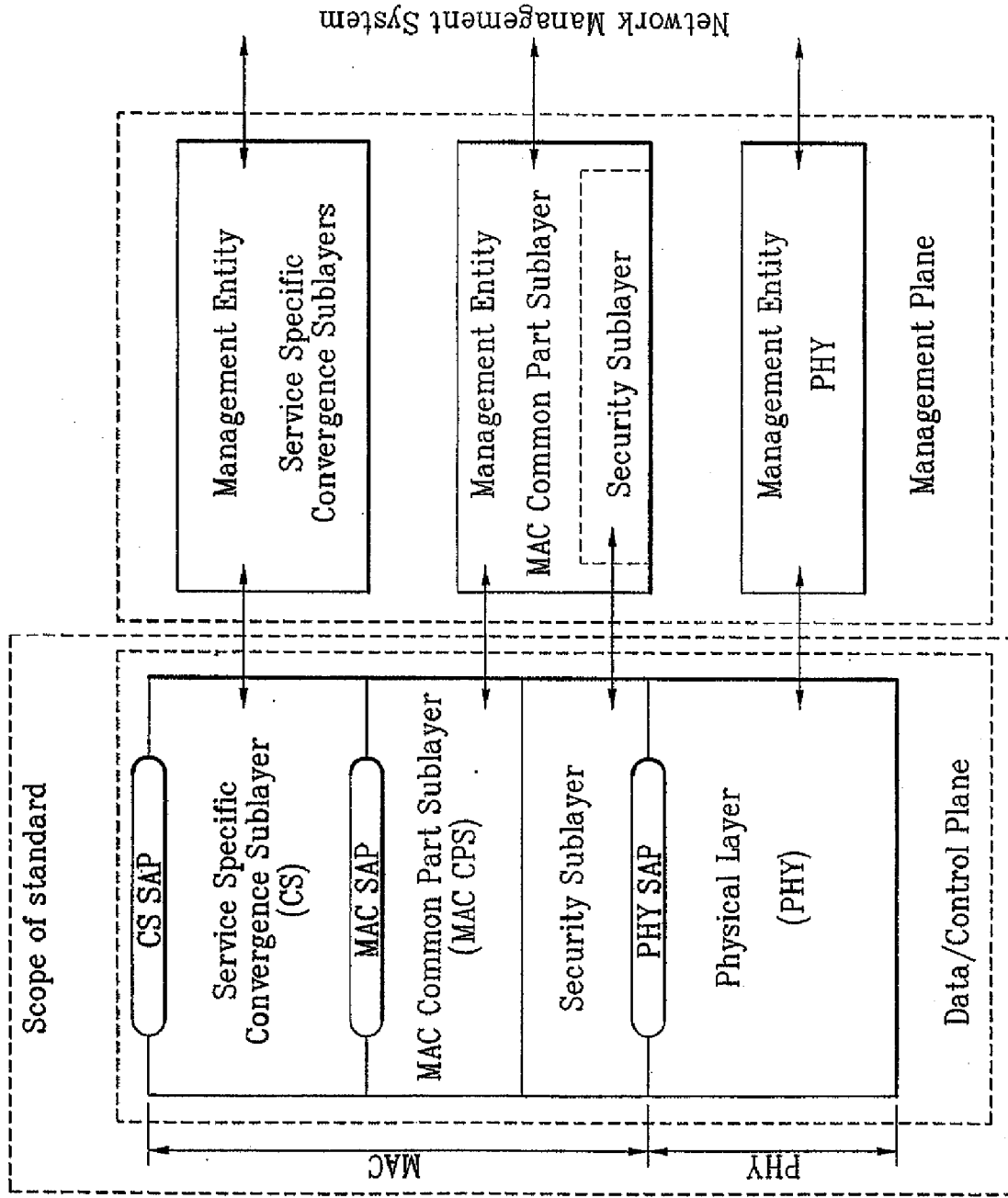


FIG. 1

FIG. 2

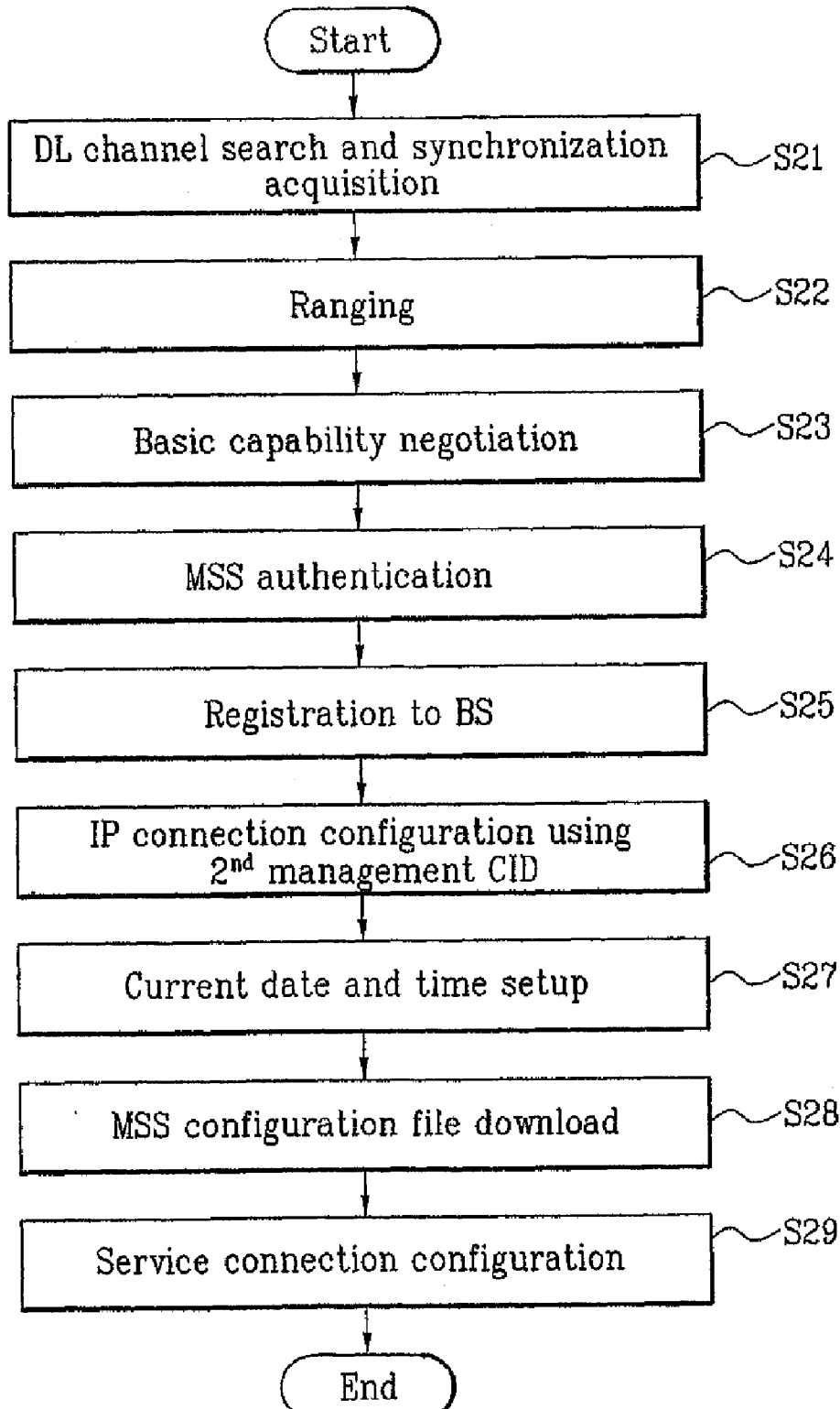


FIG. 3

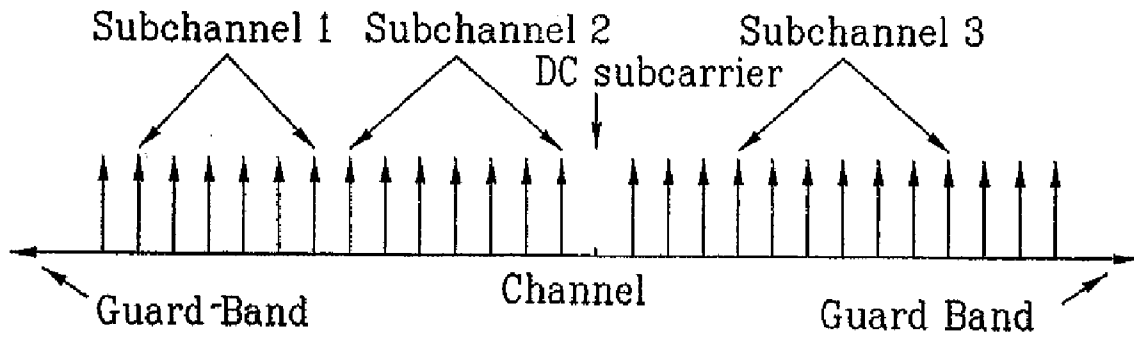


FIG. 4

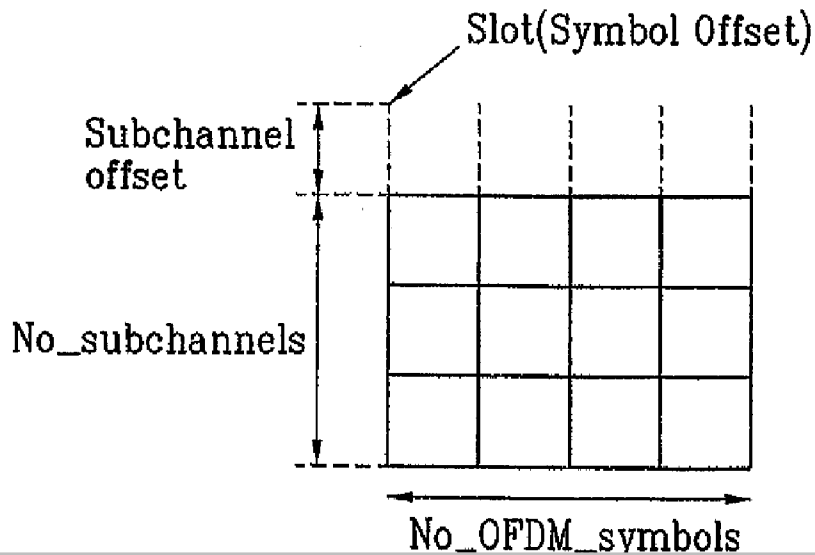
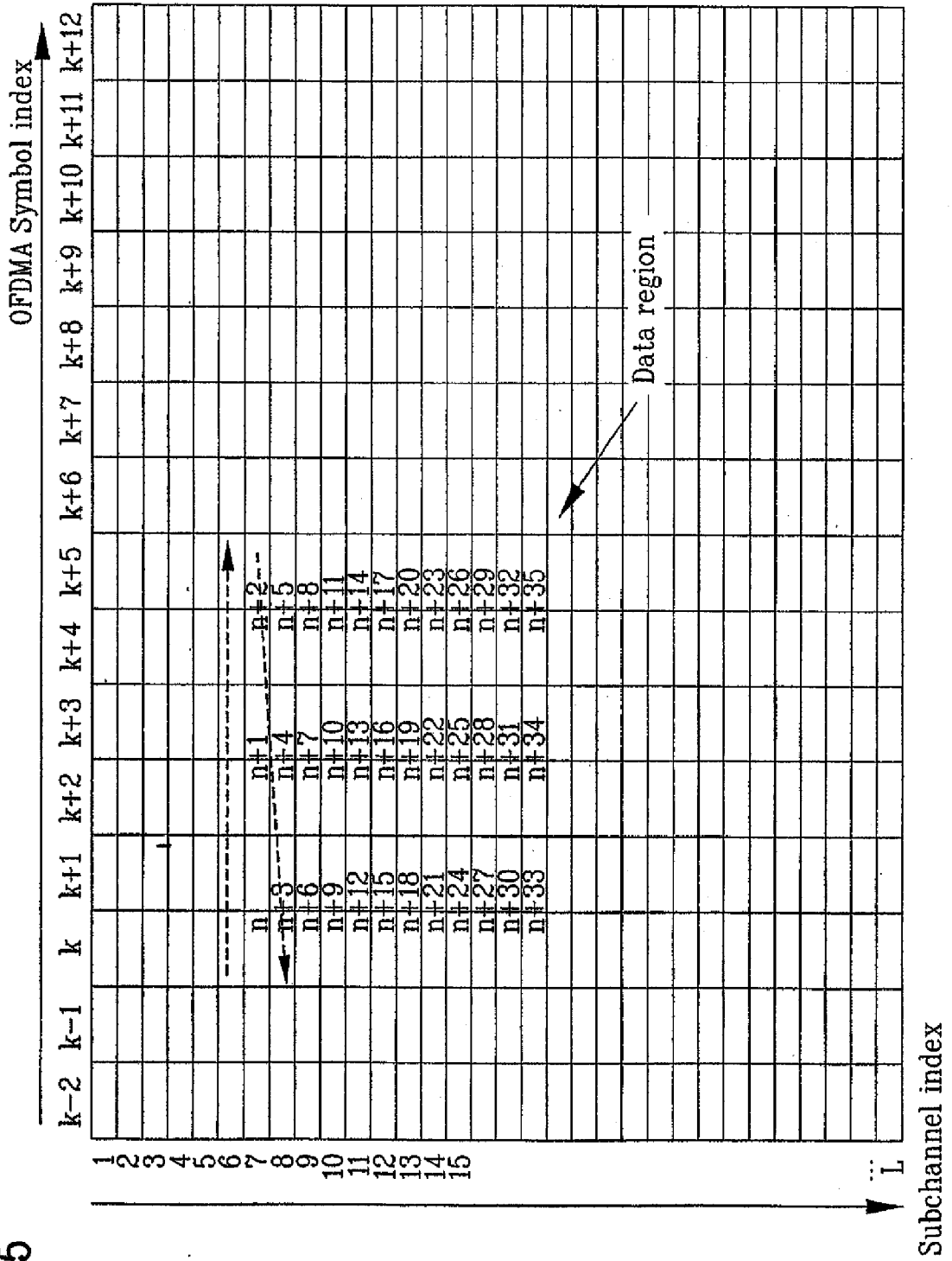


FIG. 5



# 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.