



US 20180115990A1

(19) **United States**

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

(10) **Pub. No.: US 2018/0115990 A1**

(43) **Pub. Date: Apr. 26, 2018**

(54) **DIRECTIONAL SYNCHRONIZATION IN ASSISTED MILLIMETER WAVE SYSTEMS**

**Publication Classification**

(71) Applicant: **QUALCOMM Incorporated**, San Diego, CA (US)

(51) **Int. Cl.**  
*H04W 74/00* (2006.01)  
*H04L 27/26* (2006.01)  
*H04L 5/00* (2006.01)  
*H04W 56/00* (2006.01)

(72) Inventors: **Navid ABEDINI**, Raritan, NJ (US); **Bilal SADIQ**, Basking Ridge, NJ (US); **Sundar SUBRAMANIAN**, Bridgewater, NJ (US); **Muhammad Nazmul ISLAM**, Edison, NJ (US); **Junyi LI**, Chester, NJ (US)

(52) **U.S. Cl.**  
CPC ..... *H04W 74/006* (2013.01); *H04L 27/2666* (2013.01); *H04W 52/04* (2013.01); *H04W 56/004* (2013.01); *H04W 74/002* (2013.01); *H04L 5/0051* (2013.01)

(21) Appl. No.: **15/789,633**

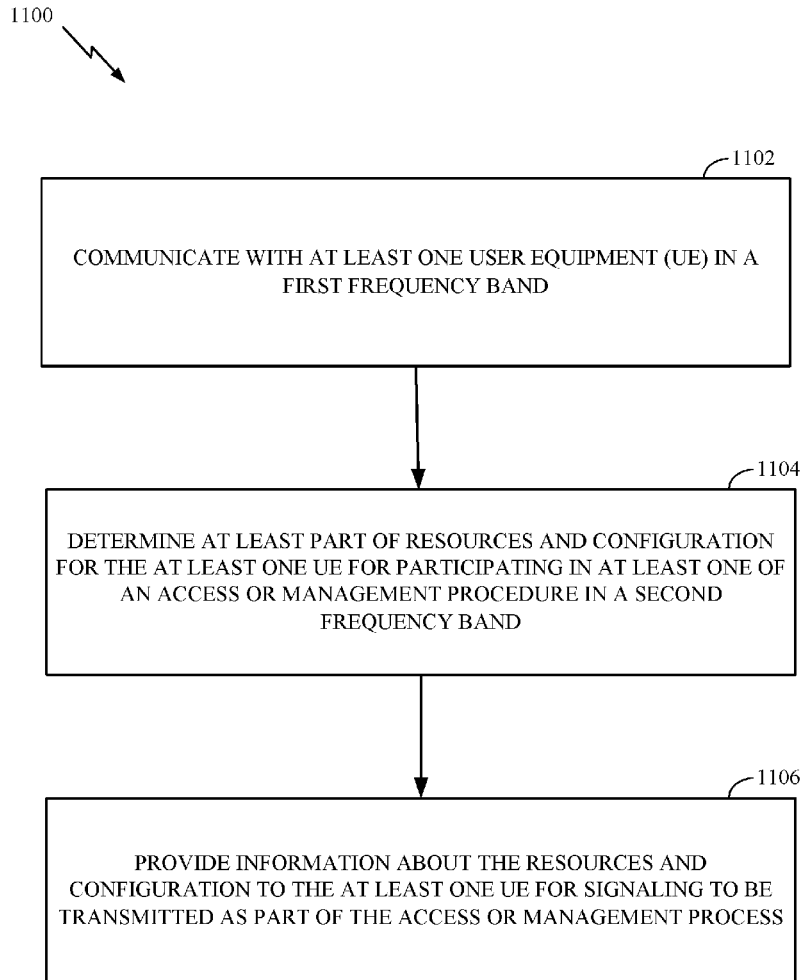
(57) **ABSTRACT**

(22) Filed: **Oct. 20, 2017**

Certain aspects of the present disclosure provide techniques for assisted power control for an uplink signal transmitted during a RACH procedure. A UE may determine a transmit power for transmitting a message during a RACH procedure with a secondary BS, based at least in part, on communication between the UE and a primary BS. The UE may transmit the message to the second BS during the RACH procedure based, at least in part, on the determined transmit power.

**Related U.S. Application Data**

(60) Provisional application No. 62/411,416, filed on Oct. 21, 2016, provisional application No. 62/411,400, filed on Oct. 21, 2016.



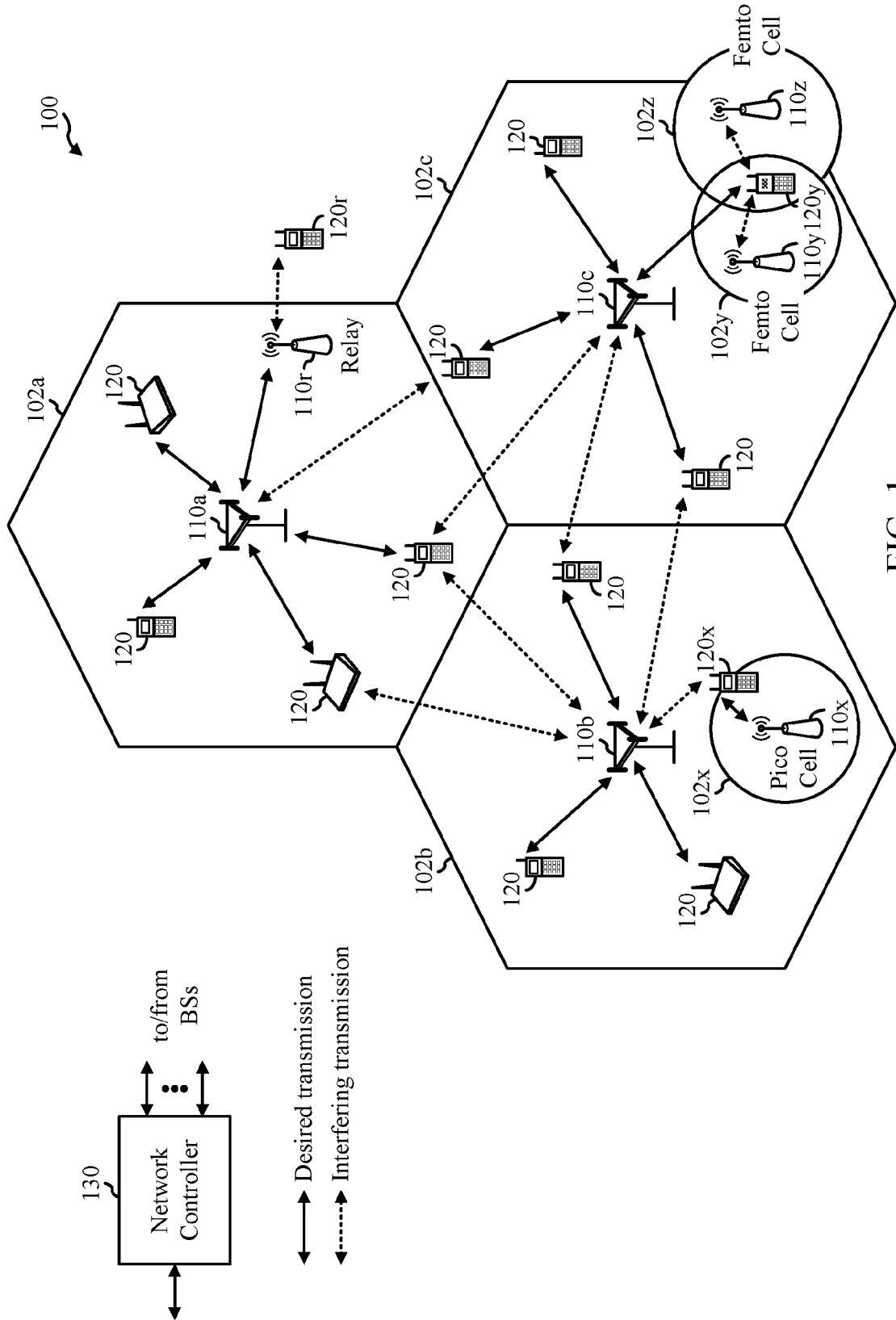


FIG. 1

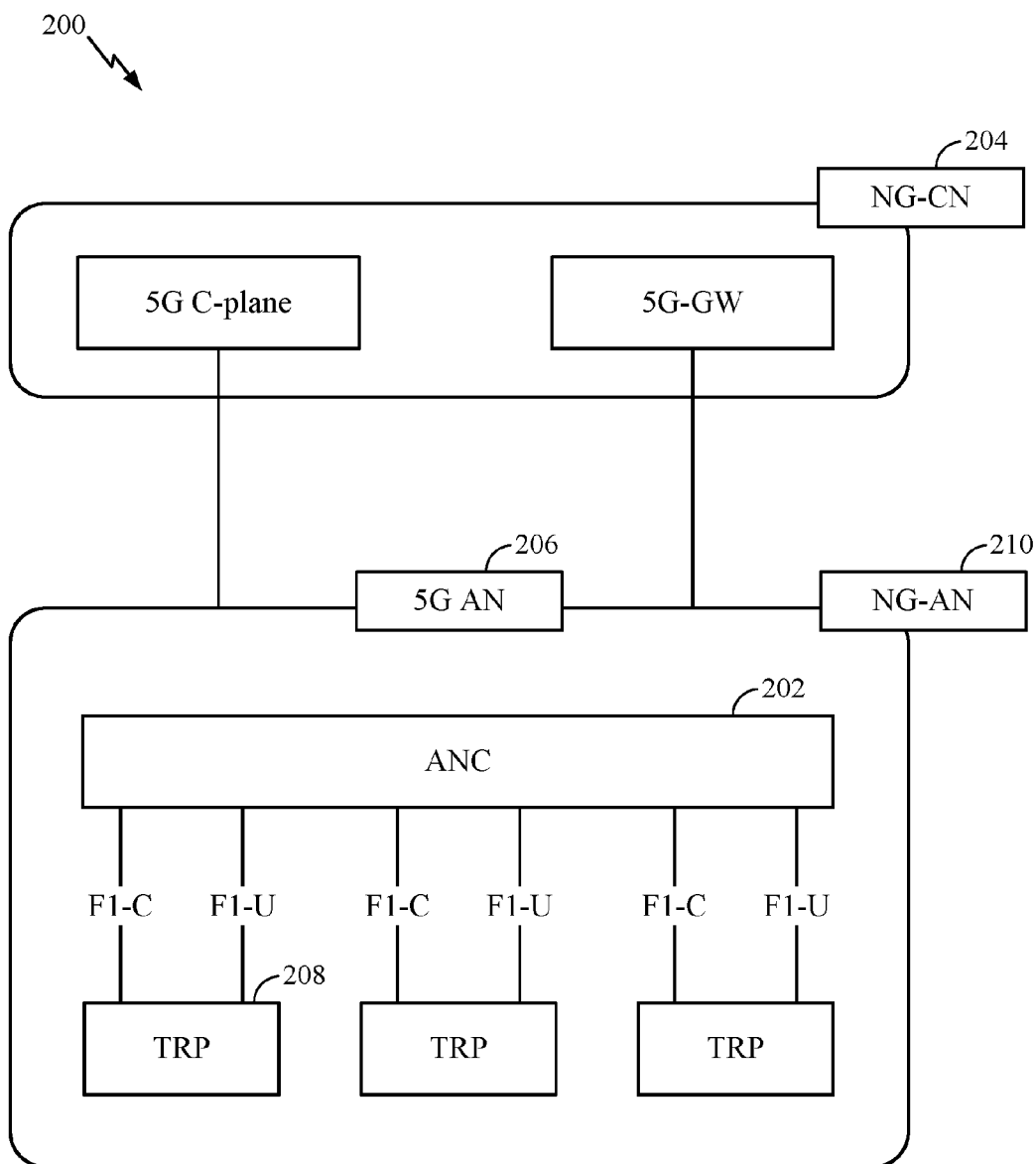


FIG. 2

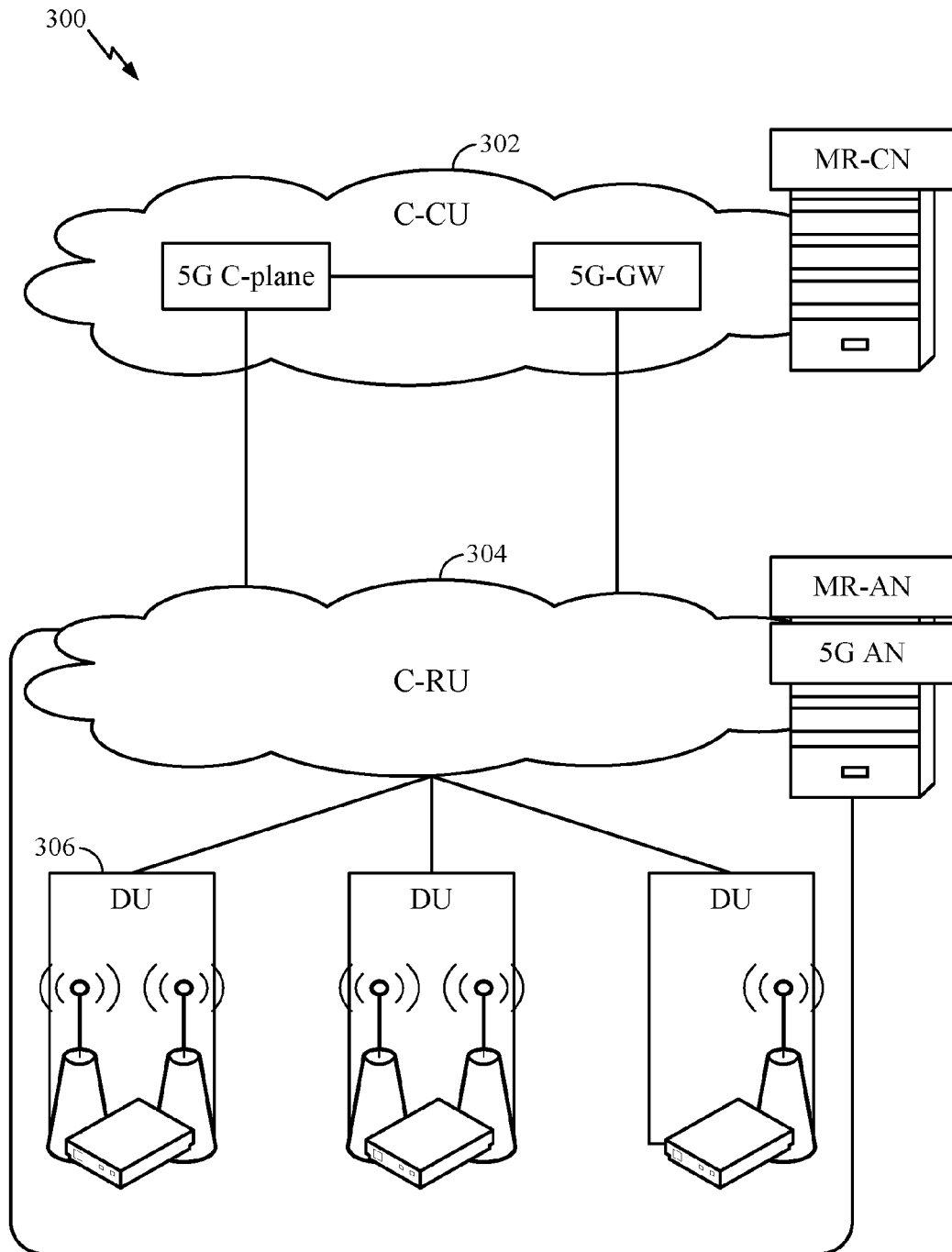


FIG. 3

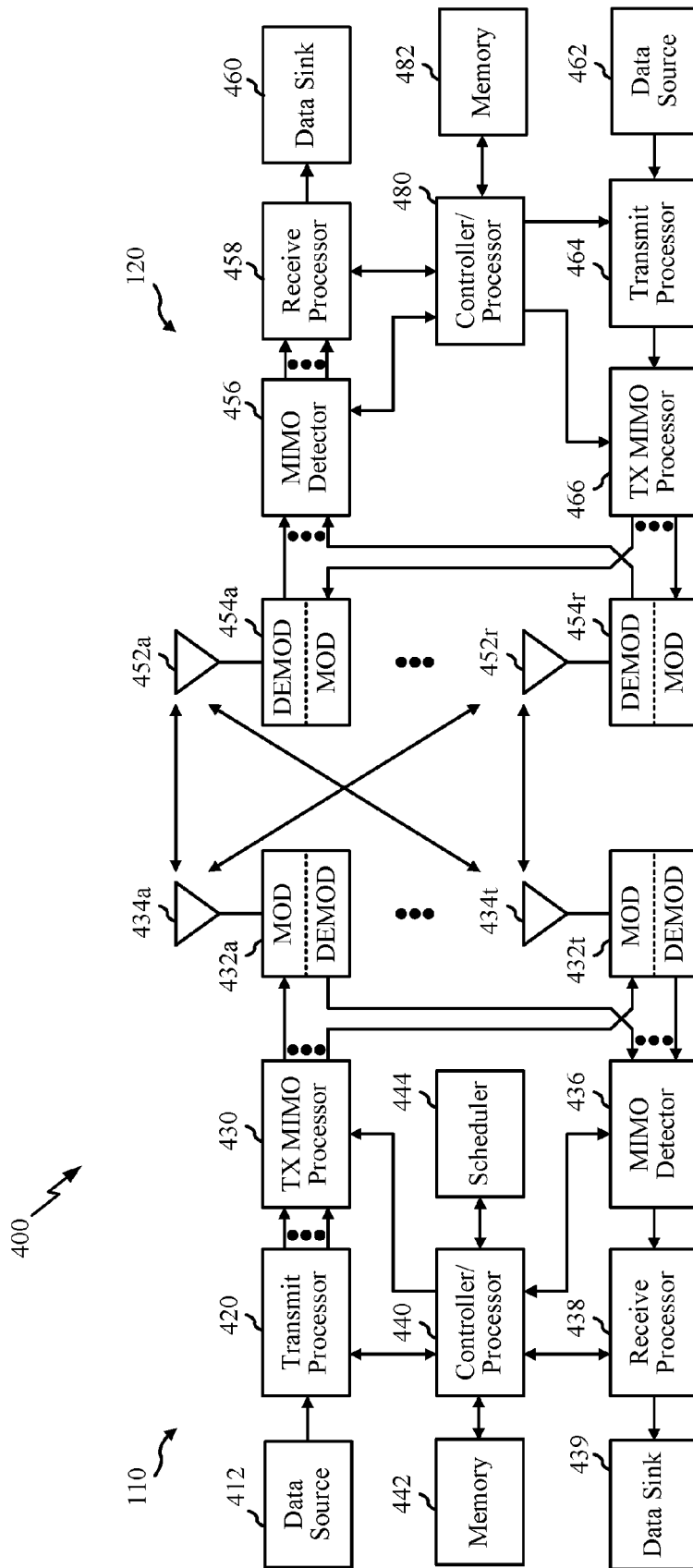


FIG. 4

# 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.