Ericsson Inc. and Telefonaktiebolaget LM Ericsson, Petitioner

v.

Intellectual Ventures II LLC, Patent Owner

IPR2014-01195
U.S. Patent No. 7,787,431

Exhibit 2006

Before Jameson Lee, Justin Busch and J. John Lee,

Administrative Patent Judges

- Ground #1: Claims 1 and 2 for obviousness over the combination of Li, Yamaura, Zhuang, and Beta/UTRA

- Ground #2: Claims 1 and 2 for obviousness over the combination of Li, Yamaura, Mody, Nobilet, Popovic, and Beta/UTRA

(Institution Decision at 18)

Independent Claim 1 of the '431 Patent

In a variable bandwidth wireless communication system communicating under multiple different communication schemes that each have a different bandwidth, a process performed by a base station of generating an information bearing signal for wireless transmission, the process comprising:

utilizing by the base station a number of subcarriers to construct a variable bandwidth wireless channel;

utilizing by the base station groups of subcarriers, wherein each group includes a plurality of subcarriers;

maintaining a fixed spacing between adjacent subcarriers;

adding or subtracting, by the base station, groups of subcarriers to scale the variable bandwidth wireless channel and achieve an operating channel bandwidth; and

wherein a core-band, including a plurality of subcarrier groups, substantially centered at an operating center frequency of the different communication schemes, is utilized by the base station as a broadcast channel carrying radio control and operation signalling, where the core-band is substantially not wider than a smallest possible operating channel bandwidth of the system; and

wherein the information bearing signal has a primary preamble sufficient for basic radio operation and wherein: the primary preamble is a direct sequence in the time domain with a frequency content confined within the core-band, or is an orthogonal frequency-divisional multiplexing (OFDM) symbol corresponding to a particular frequency pattern within the core-band; and

wherein properties of the primary preamble comprise:

an autocorrelation having a large correlation peak with respect to sidelobes;

a cross-correlation with other primary preambles having a small cross-correlation coefficient with respect to power of other primary preambles; and

a small peak-to-average ratio; and

wherein a large number of primary preamble sequences exhibit the properties.

Ex. 1001, '431 patent

Dependent Claim 2 of the '431 Patent

The process of claim 1, wherein the information bearing signal is:

an orthogonal frequency division multiple access (OFDMA) signal; and is

utilized in a downlink with a duplexing technique that is either Time Division Duplexing (TDD) or Frequency Division Duplexing (FDD).

Ex. 1001, '431 patent

Exhibit 2006

Ground #1: Petitioner's Prior Art Combination for Claim 1

1.0 In a variable bandwidth wireless communication system communicating under multiple different communication schemes that each have a different bandwidth,

1.1 a process performed by a base station of generating an information bearing signal for wireless transmission, the process comprising:

1.2 utilizing by the base station a number of subcarriers to construct a variable bandwidth wireless channel;

1.3 utilizing by the base station groups of subcarriers, wherein each group includes a plurality of subcarriers;

1.4 maintaining a fixed spacing between adjacent subcarriers;

1.5 adding or subtracting, by the base station, groups of subcarriers to scale the variable bandwidth wireless channel and achieve an operating channel bandwidth; and

Alleged prior art	
🟩	Li
🟪	Yamaura
🟥	Beta
🟦	Zhuang

Patent Owner Response at pp. 22-23

DOCKET ALARM

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.

fastcase
Smarter legal research.