UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Ericsson Inc.

Petitioner

v.

Electronics and Telecommunications Research Institute

Patent Owner

U.S. Patent No. 9,603,174 Filing Date: September 12, 2014 Issue Date: March 21, 2017

Title: ERROR CONTROL METHOD, MEDIUM ACCESS CONTROL (MAC) FRAME DESIGNING METHOD, AND TERMINAL REGISTRATION METHOD IN WIRELESS COMMUNICATION SYSTEM, AND RECORDING MEDIUM

Inter Partes Review No. IPR2020-00251

PETITION FOR *INTER PARTES* REVIEW UNDER 35 U.S.C. §§ 311-319 AND 37 C.F.R. § 42.100 *ET SEQ*.

DOCKET

Δ

TABLE OF CONTENTS

I.	PRELIMINARY STATEMENT1		
II.	IDENTIFICATION OF CHALLENGE AND RELIEF REQUESTED2		
III.	TECHNOLOGICAL BACKGROUND2A.The '174 PatentB.Challenged ClaimC.Prosecution History8D.Claimed Priority Date14		
IV.	LEVEL OF ORDINARY SKILL IN THE ART15		
V.	CLAIM CONSTRUCTION15		
VI.	 PRIOR ART		
VII.	CLAIM 25 IS UNPATENTABLE28A.Ground 1: Boudreau Anticipates Claim 2528B.Ground 2: Laroia Renders Obvious Claim 2535C.Ground 3: Stanwood Anticipates Claim 2545		
VIII	I. CONCLUSION		
IX.	MANDATORY NOTICES UNDER 37 C.F.R. §42.853A.Real Parties-In-Interest53B.Related Matters53		
Х.	CERTIFICATION UNDER 37 C.F.R. §42.24(D)54		
XI.	PAYMENT OF FEES		
XII.	TIME FOR FILING PETITION		
XIII	. GROUNDS FOR STANDING54		

Exhibit	Description
1001	U.S. Patent No. 9,603,174 to Lim et al. ("the '174 Patent")
1002	CV of Dr. Wayne Stark
1003	Declaration of Wayne Stark, Ph.D in Support of Petition for <i>Inter Partes</i> Review
1004	D. Boudreau and W. Tong, R1-02-1222, Reference OFDM Physical Layer Configuration, Nortel Networks, 3GPP TSG-RAN-1 Meeting #28bis (Espoo, Finland 8th – 9th , October 2002) ("Boudreau")
1005	U.S. Patent No. 6,819,930 to Laroia et al. ("Laroia")
1006	U.S. Patent No. 7,197,022 to Stanwood et al. ("Stanwood")
1007	Prosecution History of U.S. App. No. 14/484,547 (application leading to the '174 Patent) ¹
1008	U.S. Patent Application Publication No. 2003/0103525 to Wahl ("Wahl")
1009	U.S. Patent Application Publication No. 2010/0220725 to Tzannes et al. ("Tzannes")
1010	Prosecution History of U.S. App. No. 13/369,610 (application leading to U.S. Patent No. 8,861,459) ²
1011	U.S. Patent Application Publication No. 2008/0285670 to Walton et al. ("Walton")
1012	Prosecution History of U.S. App. No. 12/214,180 (application leading to the U.S. Patent No. 8,139,532) ³

¹ For convenience to the Board, all references to Exhibit 1007 are to the page number endorsed by Ericsson.

DOCKE

Δ

² For convenience to the Board, all references to Exhibit 1010 are to the page number endorsed by Ericsson.

³ For convenience to the Board, all references to Exhibit 1012 are to the page number endorsed by Ericsson.

1013	U.S. Patent No. 6,904,283 to Li et al. ("Li")
1014	U.S. Patent Application Publication No. 2003/0072395 to Jia et al. ("Jia")
1015	Declaration of Dr. Craig Bishop
1016	First Amended Complaint for Patent Infringement, Sol IP, LLC v. AT&T Mobility LLC, Case No. 2:18-cv-00526 (E.D. Tex.), filed on March 22, 2019 (Dkt. No. 100) ("Complaint")

I. PRELIMINARY STATEMENT

Petitioner Ericsson Inc. ("Ericsson" or "Petitioner") respectfully requests *inter partes* review and cancellation of claim 25 of U.S. Patent 9,603,174 ("the '174 Patent") under 35 U.S.C. §§ 311-319 and 37 C.F.R. § 42.100 *et seq*.

The '174 Patent relates to the wireless communication between cellular devices and base stations, and in particular, a concept called radio resource allocation. Patent Owner Electronics and Telecommunications Research Institute, by and through its licensing agent Sol IP, LLC (collectively "Patent Owner"), allege that claim 25 of the '174 Patent is essential to LTE Release 8.⁴ Ex. 1016, ¶¶ 49-50. However, ETRI did not contribute what it now claims as its invention to the LTE standard. Instead, all of the concepts claimed in the '174 Patent were developed prior to the 4G LTE standard-setting process by others, including in printed publications that were submitted to the standard-setting body and made publicly available via an email reflector. Ex. 1015, ¶¶ 52-56. Shortly thereafter, ETRI filed a patent application on these ideas in South Korea. Ex. 1001, Cover.

This Petition, supported by the Declaration of Dr. Wayne Stark, explains why there is a reasonable likelihood that claim 25 of the '174 Patent is unpatentable as obvious to a person of ordinary skill in the art ("POSITA") in view of the prior art

⁴ Petitioner disagrees. Nevertheless, the invalidity analysis herein is based on Patent Owner's allegation that practicing the LTE Release 8 standard infringes the Challenged Claim.

DOCKET A L A R M



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.