UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SAMSUNG ELECTRONICS CO., LTD., SAMSUNG ELECTRONICS AMERICA, INC., and APPLE INC., Petitioner

v.

SMART MOBILE TECHNOLOGIES LLC, Patent Owner.

IPR2022-01248 Patent 8,842,653 B1

Before HYUN J. JUNG, GARTH D. BAER, and AARON W. MOORE, *Administrative Patent Judges*.

MOORE, Administrative Patent Judge.

DECISION Granting Institution of *Inter Partes* Review 35 U.S.C. § 314



LARM Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

TABLE OF CONTENTS

I.	INTI	RODUCTION1						
	А.	Background and Summary1						
	В.	Related Matters						
	C.	The	The '653 Patent					
	D.	Illus	Illustrative Claim					
	E.	Asserted Grounds						
II.	ANA	NALYSIS						
	А.	Level of Ordinary Skill in the Art						
	B.	Claim Construction						
	C.	Obviousness Analysis						
		1.	1. The Cited Prior Art					
			a.	Yegoshin				
			b.	Johnston9				
			c.	Billström9				
			d.	Bernard10				
		2.	Claims 1–11, 17–21, and 23 in View of Yegoshin, Johnston, Billström, and Bernard (Ground 1B)					
			a.	Independent Claim 1 13				
			b.	Dependent Claim 2				
			c.	Dependent Claim 327				
			d.	Dependent Claim 4				
			e.	Dependent Claim 5				
			f.	Dependent Claim 6 30				
			g.	Dependent Claim 7				
			h.	Dependent Claim 8				
			i.	Dependent Claim 9				
			j.	Dependent Claim 10 33				
			k.	Dependent Claim 11				

IPR2022-01248 Patent 8,842,653 B1

			l .	Independent Claim 17 35		
			m.	Dependent Claims 18–21 and 23 37		
		3.	Claims 14–16 in View of Yegoshin, Johnston, and Billström (Ground 1A)			
			a.	Independent Claim 14 40		
			b.	Dependent Claim 15 46		
			c.	Dependent Claim 16 47		
		4.		ng Farber to Ground 1B for Dependent n 12 (Ground 1C) 48		
			ng Sainton to Ground 1B for Dependent ns 13 and 24–26 (Ground 1D)			
			a.	Dependent Claim 13 49		
			b.	Dependent Claims 24–26 50		
		6.	Claims 27–30 in View of Yegoshin, Johnston, Billström, Bernard, and Preiss (Ground 1E)			
			a.	Independent Claim 27 52		
			b.	Dependent Claim 28 56		
			c.	Dependent Claims 29–30 56		
	D.	Distr	District Court Claim Constructions5			
	E.	E. Number of References and Hindsight Bias				
III.	CON	NCLUSION				
IV.	ORE	ORDER				

DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

I. INTRODUCTION

A. Background and Summary

Samsung Electronics Co., Ltd., Samsung Electronics America, Inc., and Apple Inc. (collectively, "Petitioner") filed a Petition (Paper 3, "Pet.") requesting institution of an *inter partes* review of claims 1–21 and 23–30 of U.S. Patent No. 8,842,653 B1 (Ex. 1001, "the '653 patent"). Smart Mobile Technologies LLC ("Patent Owner") filed a Preliminary Response (Paper 8, "Prelim. Resp."). With our authorization, the parties filed additional briefs directed solely to the issue of inconsistent claim constructions between this proceeding and related litigation. Papers 9, 10.

Under 35 U.S.C. § 314, an *inter partes* review may not be instituted "unless . . . there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition." Upon consideration of the Petition in view of the present record and for the reasons explained below, we determine that Petitioner has shown a reasonable likelihood of prevailing with respect to at least one of the challenged claims.

We accordingly institute an *inter partes* review of claims 1–21 and 23–30 of the '653 patent on all presented challenges. *See SAS Inst. Inc. v. Iancu*, 138 S. Ct. 1348, 1359–60 (2018).

B. Related Matters

The parties identify *Smart Mobile Techs. LLC v. Apple Inc.*, 6:21-cv-00603 (W.D. Tex.) and *Smart Mobile Techs. LLC v. Samsung Elecs. Co., Ltd.*, 6:21-cv-00701 (W.D. Tex.) as related matters. Pet. 85–86; Paper 4, 1.

We have instituted *inter partes* reviews of related patents. *See Samsung Elecs. Co., Ltd. v. Smart Mobile Techs. LLC*, IPR2022-00766, Paper 14 (PTAB Oct. 26, 2022); *Samsung Elecs. Co., Ltd. v. Smart Mobile*

Techs. LLC, IPR2022-01004, Paper 13 (PTAB Dec. 5, 2022); *Samsung Elecs. Co., Ltd. v. Smart Mobile Techs. LLC*, IPR2022-01005, Paper 10 (PTAB Dec. 5, 2022).

IPR2022-01222, IPR2022-01223, and IPR2022-01249 are also pending and involve related patents.

C. The '653 Patent

The '653 patent describes an unfulfilled need for multiple transmitters and receivers ("T/R") in a cellular telephone or mobile wireless device ("CT/MD"). *See* Ex. 1001, 1:48–51. Figure 5A of the patent is reproduced below.

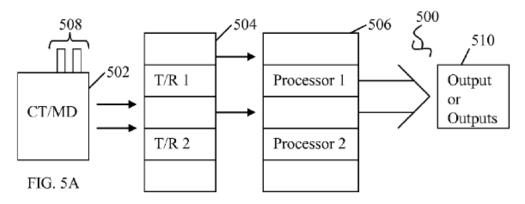


Figure 5A shows a "a dual antenna, dual T/R unit in a CT/MD interfacing with a dual processor." Ex. 1001, 2:15–17.

Dual antenna 508 and dual T/R unit 504 interface with dual processor 506 in dual band system 500. *See id.* at 4:37–39. System 500 can communicate through outputs 510, which can be "fibre optic channel, ethernet, cable, telephone, or other." *Id.* at 4:42–45.

"The multiple processors 506 allow for parallel and custom processing of each signal or data stream to achieve higher speed and better quality of output." Ex. 1001, 4:51–53. Processors 506 include "DSP, CPU,

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.