UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

ZTE (USA) INC., Petitioner,

v.

FUNDAMENTAL INNOVATION SYSTEMS INTERNATIONAL LLC, Patent Owner.

Case IPR2018-00274 Patent No. 7,834,586 B2

Before BRYAN F. MOORE, JON B. TORNQUIST, and ARTHUR M. PESLAK, *Administrative Patent Judges*.

PESLAK, Administrative Patent Judge

DOCKET

Δ

DECISION Denying Institution of *Inter Partes* Review 35 U.S.C. § 314(a)

I. INTRODUCTION

ZTE (USA) Inc. ("Petitioner"), filed a Petition (Paper 5, "Pet"") requesting an *inter partes* review of claims 8–13 of U.S. Patent 7,834,586 B2 (Ex. 1001, "the '586 Patent").¹ Petitioner supports its Petition with the Declaration of Mr. James Geier. Ex. 1009. Fundamental Innovation Systems International LLC ("Patent Owner"), timely filed a Preliminary Response (Paper 9, "Prel. Resp."). Patent Owner supports its Preliminary Response with the Declaration of Dr. Kenneth Fernald. Ex. 2001.

Subsequent to the filing of the Petition, on June 8, 2018, Patent Owner filed a Statutory Disclaimer, in compliance with 35 U.S.C. § 253(a) and 37 C.F.R. § 1.321(a), of claims 3, 7, 10 and 13 of the '586 Patent. Ex. 2013, 3. 37 C.F.R. § 42.107(e) provides that "[n]o *inter partes* review will be instituted based on disclaimed claims." Petitioner's Ground 1 includes challenges to claims 10 and 13. Pet. 3. Petitioner's Ground 2 is directed to only claims 10 and 13. Consequently, we do not consider Petitioner's challenge to claims 10 and 13 in Ground 1 nor do we consider Petitioner's Ground 2 herein.

We have authority to determine whether to institute an *inter partes* review. 35 U.S.C. § 314; 37 C.F.R. § 42.4(a). Under 35 U.S.C. § 314(a), an *inter partes* review may not be instituted unless the information presented in the Petition shows "there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition." Taking into account the evidence and arguments presented in the Petition

¹ Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc. were dismissed from this proceeding by Order entered July 18, 2018. Paper 13.

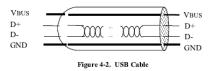
and the Preliminary Response, we determine that Petitioner has not demonstrated a reasonable likelihood of prevailing with respect to any challenged claim of the '586 Patent. Therefore, we do not institute an *inter partes* review.

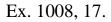
A. Related Matters

The parties identify Civil Action No. 2:17-cv-00145, No. 2:16-cv-01424, and No. 2:16-cv-01425, pending in the Eastern District of Texas and Civil Action No. 3:17-cv-01827 pending in the Northern District of Texas as involving the '586 Patent. Pet. 1, Paper 6, 1. The parties also identify IPR2018-00485 and IPR2018-00493 as having been filed against the '586 Patent. Pet. 1, Paper 6, 3.

B. Technology Background

An overview of Universal Serial Bus ("USB") cables is helpful in understanding the technology involved in the '586 Patent which relates to charging a mobile device through a USB connector. *See* Ex. 1001, Fig. 3. Cables compliant with the USB 2.0 standard have four conductors: VBUS, D+, D-, and GND. Ex. 1008, 17–18, 86. The VBUS and GND conductors of the USB cable are used to deliver power to devices and the D+ and Dconductors carry communication signals between a USB host and a connected device. *Id.* at 17–18; Ex. 1001, 6:65–7:3; Ex. 1005, 4:62–66. Figure 4–2 of the USB 2.0 Specification, reproduced below, depicts these four conductors within a USB cable:





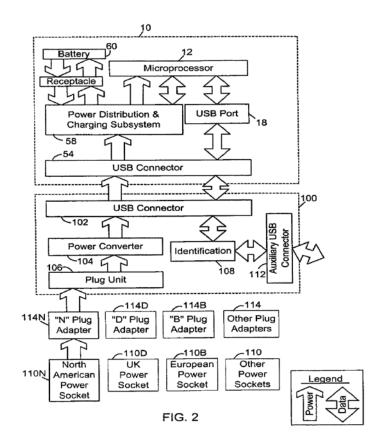
IPR2018-00274 Patent 7,834,586 B2

Figure 4–2 depicts the conductors within a USB cable.

C. The '586 Patent

The '586 Patent is directed to a Multifunctional Charger System and Method. Ex. 1001, Title. The '586 Patent discloses "a USB adapter for providing a source of power to a mobile device through a USB port." *Id.* at 2:21–22. The '586 Patent explains that although it was understood in the art that a USB interface could be used as a power interface, it was typically not used for that purpose by mobile devices. *Id.* at 1:55–56. This is because USB hubs and hosts require USB devices to "participate in a host-initiated process called enumeration in order to be compliant" with the USB specification in drawing power from the USB interface, and "alternate power sources such as conventional AC outlets and DC car sockets" were "not capable of participating in enumeration." *Id.* at 1:58–2:3. Additionally, "the power limits imposed by the USB specification" limit the amount of power available to charge a battery. *Id.* at 2:64–65.

In order to, *inter alia*, avoid the power limits imposed by the USB Specification, the '586 Patent discloses a USB adapter and a method for charging that is capable of providing power to a mobile device without first participating in USB enumeration. *Id.* at 9:18–34. Figure 2 of the '586 Patent, reproduced below, is a schematic diagram of the disclosed USB adapter coupled to an exemplary mobile device (*id.* at 3:25–26): IPR2018-00274 Patent 7,834,586 B2



As shown in Figure 2, USB adapter 100 comprises primary USB connector 102, power converter 104, plug unit 106, identification subsystem 108, and auxiliary USB connector 112. *Id.* at 6:49–60. The '586 Patent discloses that when USB adapter 100 is connected to mobile device 10 via USB connector 54 of mobile device 10 and USB connector 102 of USB adapter 100, identification subsystem 108 provides an identification signal to mobile device 10 indicating that the power source is not a USB limited source. *Id.* at 6:63–65, 8:15–17. In one embodiment, "identification subsystem 108 comprises a USB controller that is operable to communicate an identification signal to the mobile device." *Id.* 8:25–27. The identification signal "could be the communication of a single voltage on one or more of the USB data lines, different voltages on the two data lines, a

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

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.