

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark ●ffice
Address: COMMISSIONER FOR PATENTS
PO. Box 1450
Alexaméria, Virginia 22313-1450
www.uspto.gov

 APPLICATION NUMBER
 FILING or 371(c) DATE
 GRP ART UNIT
 FIL FEE REC'D
 ATTY.DOCKET.NO
 TOT CLAIMS IND CLAIMS

 62/544.118
 08/11/2017
 260
 251367-8237

109673 McClure, Qualey & Rodack, LLP 3100 Interstate North Circle Suite 150 Atlanta, GA 30339 CONFIRMATION NO. 7862 FILING RECEIPT



Date Mailed: 09/01/2017

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections

Inventor(s)

Pei-Kai LIAO, Hsin-Chu, TAIWAN;

Applicant(s)

MEDIATEK INC., Hsin-Chu, TAIWAN;

Power of Attorney: Daniel McClure--38962

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 08/31/2017

The country code and number of your priority application, to be used for filing abroad under the Paris Convention,

is **US 62/544.118**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No Early Publication Request: No

Title

Methods of Power-efficient Operation in Wideband Carrier

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No page 1 of 3



PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.



This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.					
	76 Attorn	ey Docket Number	251367-8237	7	
	Applic	cation Number			
Title of Invention Methods of Power-efficie	nt Operation	in Wideband Carrier			
The application data sheet is part of the provisional or bibliographic data arranged in a format specified by the This document may be completed electronically and document may be printed and included in a paper filed	e United State submitted to	s Patent and Trademark C	Office as outlined	in 37 CFR 1.76.	
Secrecy Order 37 CFR 5.2:					
Portions or all of the application associate 37 CFR 5.2 (Paper filers only. Application		•	•	•	•
Inventor Information:					
Inventor 1				Remove	
Legal Name					
Prefix Given Name	Middle Na	ame	Family Name		Suffix
▼ Pei-Kai			LIAO		
Residence Information (Select One)	US Residen	_ `		Active US Military Se	rvice
City Hsin-Chu	Country	of Residence i	(ΓW	
Mailing Address of Inventor: Address 1 No. 1, Dusing Rd	. 1st				
		(
Address 2 Science-Based In City Hsin-Chu		State/Pro	<u> </u>		
Address 1 Address 2 City Hsin-Chu Postal Code No. 1, Dusing Rd Science-Based In 300	dustrial Park	State/Pro	ΤW		
Address 1 No. 1, Dusing Rd Address 2 Science-Based In City Hsin-Chu	dustrial Park	State/Pro Country i Information blocks	ΤW	Add	
Address 1 Address 2 Science-Based In City Hsin-Chu Postal Code All Inventors Must Be Listed - Additional	dustrial Park	State/Pro Country i Information blocks	ΤW	Add	
Address 1 Address 2 City Hsin-Chu Postal Code All Inventors Must Be Listed - Additional generated within this form by selecting the	dustrial Park al Inventor Add button.	Country i Information blocks	may be		
Address 1 Address 2 City Hsin-Chu Postal Code All Inventors Must Be Listed - Additional generated within this form by selecting the Correspondence Information: Enter either Customer Number or complete	dustrial Park al Inventor Add button. ete the Cor a).	Country i Information blocks	may be	on below.	
Address 1 Address 2 City Hsin-Chu Postal Code All Inventors Must Be Listed - Additional generated within this form by selecting the Correspondence Information: Enter either Customer Number or complete for further information see 37 CFR 1.33	dustrial Park al Inventor Add button. ete the Cor a).	Country i Information blocks	may be	on below.	
Address 1 Address 2 City Hsin-Chu Postal Code All Inventors Must Be Listed - Additional generated within this form by selecting the Correspondence Information: Enter either Customer Number or complementation see 37 CFR 1.336 An Address is being provided for the	al Inventor Add button. ete the Cor a).	Country i Information blocks	may be	on below.	nove Email
Address 1 Address 2 City Hsin-Chu Postal Code All Inventors Must Be Listed - Additional generated within this form by selecting the Correspondence Information: Enter either Customer Number or complementation see 37 CFR 1.336 An Address is being provided for the Customer Number Customer Number 109673	al Inventor Add button. ete the Cor a).	Country i Information blocks	may be	on below.	nove Email
Address 1 Address 2 City Hsin-Chu Postal Code All Inventors Must Be Listed - Additional generated within this form by selecting the Correspondence Information: Enter either Customer Number or complete for further information see 37 CFR 1.33(An Address is being provided for the Customer Number Customer Number Email Address Application Information:	al Inventor Add button. ete the Cor a). e correspor	Country i Information blocks	may be	on below.	nove Email
Address 1 Address 2 City Hsin-Chu Postal Code All Inventors Must Be Listed - Additional generated within this form by selecting the Correspondence Information: Enter either Customer Number or complete for further information see 37 CFR 1.33(An Address is being provided for the Customer Number Customer Number Email Address Application Information:	al Inventor Add button. ete the Cor a). e correspor	Country i Information blocks rrespondence Information dence Information	may be	cation. Add Email Ren	nove Email
Address 1 Address 2 City Postal Code All Inventors Must Be Listed - Additional generated within this form by selecting the Correspondence Information: Enter either Customer Number or complement for further information see 37 CFR 1.33 (An Address is being provided for the Customer Number Customer Number Email Address Application Information: Title of the Invention Methods of Power	al Inventor Add button. ete the Cor a). e correspor	Country i Information blocks rrespondence Information dence Information	may be mation section of this applie	cation. Add Email Ren	nove Email



U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.			D 4 76	Attorney D	Attorney Docket Number 25136			1367-8237			
			K 1.70	Application	Number						
Title of Invention	Method	nods of Power-efficient Operation in Wideband Carrier									
Filing By Refe	erenc	e:									
			cation by	reference unde	r 35 U.S.C. 111(c) an	d 37 CFR 1 57	(a) Dong	ot complete this section if			
	ding a sp	ecification and	d any draw	vings are being	filed. Any domestic	benefit or for	eign prio	rity information must be			
or the purposes of a fili eference to the previou							plicati o n	are replaced by this i			
Application number of the previously filed application		Filing date (YYYY-MM-DD)			Intelle	Intellectual Property Authority or Coun					
Publication I	nforn	nation:				·					
Request Early	Publica	ation (Fee re	equired a	t time of Req	uest 37 CFR 1.2	19)					
subject of an a publication at a publication at a subject of an a subject of an a subject of an a subject of a s	re Information se Application se App	on filed in a n months afformation should be protion Data Sheer or complete	nother cotter filing. n: rovided for eet does note the Rep	or all practition of constitute appresentative N	ners having a poar power of attorney	ower of attor	ney in tation (se	the application. Providing a 37 CFR 1.32).			
Please Select One:	<u> </u>	Custome	er Numbei	r US	Patent Practitione	r	mited Re	cognition (37 CFR 11.9)			
Customer Number		109673					_ , ,				
	or the a from a e requir	pplicant to e PCT applicated by 35 U.	either clai ation. Pro S.C. 119	im benefit un oviding bene (e) or 120, a	ider 35 U.S.C. 17 fit claim informati nd 37 CFR 1.78.	on in the Ap	plication	(c), or 386(c) or indicate n Data Sheet constitutes			
Prior Application	Status			<u></u>				Remove			
Application Nun	nber	Co	ontinuity [*]	Туре	Prior Applicati	on Number	Fi	ling or 371(c) Date (YYYY-MM-DD)			
							1				

DOCKET

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.

