PROVISIONAL APPLICATION COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION under 37 CFR 1.53(c).

Docket Number 06720.6055				Type a plus sign (+)	inside this box ≡	+	
INVENTOR(s)/APPLICANT(s)							
≯ ∟	AST NAME	FIRST NAME	MIDDLE INITIAL	RESIDENCE (CITY AND EIT COUNTRY)	HER STATE OR F	OREIGN	
H	SIEH ING SU IAO	Yu-Tao Pang-An Jen-Yuan Chang-Lung		Hsinchu City 300, Taiwan Fongyuan City, Taiwan, R Jincheng Township, Taiwa Hsinchu City 300, Taiwan	.O.C. an, R.O.C.		
	TITLE OF INVENTION (500 characters max)						
FRAME STRUCTURE FOR IEEE 802.16m							
CORRESPONDENCE ADDRESS							
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P., Customer Number 22,852							
ENCLOSED APPLICATION PARTS (check all that apply)							
☑ Specification: 9 Pages☐ Drawing(s): Sheets/ Figures☐ Other: Pages;							
METHOD OF PAYMENT							
B	A check or mo	A check or money order is enclosed to cover the Provisional Application filing fees The Commissioner is hereby authorized to charge any		PROVISIONAL FILING FEE \$200.00			
×	Application fili The Commission authorized to commission authorized a			Total Number of Pages of specification, drawings, sequence or computer listing, or other papers 9. If more than 100 pages, add \$250 for each additional 50 pages or fraction thereof.			
	deficiency or credit any overpayment in fees to Deposit Account Number 06-0916.		t		\$ (Size Fee)		
			Redi	uction by ½ For Small Entity AL FILING FEE	′\$ \$200.00		
Ļ	L				*		
The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.							
⊠ No.							
Yes, the name of the U.S. Government agency and the Government contract number are:							
Respectfully submitted on behalf of the patent practitioners associated with Customer Number 22,852,							
SIGNATURE Date July 12, 2007							
T Te	TYPED OR PRINTED NAME Richard V. Burgujian REGISTRATION NO. 31,744 Telephone: (202) 408-4000						
Additional inventors are being named on separately numbered sheets attached hereto.							
PROVISIONAL ARRISCATION FILING ONLY							





Frame structure for IEEE 802.16m

謝雨稻, 許仁源, 丁邦安/晶片中心 蕭昌龍/資通所

2007/07/11



Introduction

- New standard 802.16m is being developed for next generation wireless communication
- Enhanced spectrum efficiency
- Higher speed
- □ Backward compatibility
- 802.16m shall be backward compatible with legacy system 802.16e
- Systems based on IEEE 802.16m and 802.16e systems shall be able to should be able to operate on the same RF carrier with different channel operate on the same RF carrier, with the same channel bandwidth; and bandwidths. 0
- It is necessary to devise the frame structure of 802.16m frame supporting backward compatibility 耳



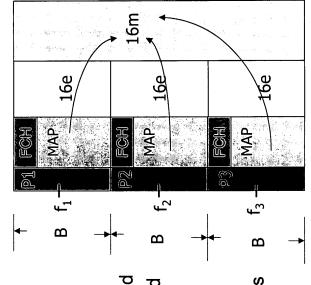
Proposed structure A

★ Frequency planning

Occupy the same band class as 802.16e

Example of L=3

- A 802.16m channel uses multiple (L) contiguous 802.16e channels
- L BS's share the same 802.16m zone with L*B bandwidth (802.16e BW with B)
- ★ Backward compatibility
- 16e preamble/FCH/MAP are kept unchanged
- Only new DL (UL) 16m zones are appended (resource allocation is done by BS cooperation)
- 16e BS's transmit 16e data using subcarreirs with BW B of their own, while share subcarriers with BW B*L in 16m zone.



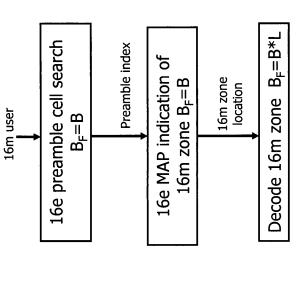
Industrial Technology
Research Engliths
50. Rehender, Geder

THILL IX

3/9

Proposed structure A

- Cell search by 16m user
- Baseband BW of L*B
- Detect 16e preamble with BW of B
- Decode FCH/MAP to decide the location of 16m zone
- Retrieve 16m zone with BS with BW of L*B



B_F be the bandwidth of LPF







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.

