Prosecution Effectiveness of TW Companies Before USPTO

Miao Li

LexisNexis, Asia IP Consultant





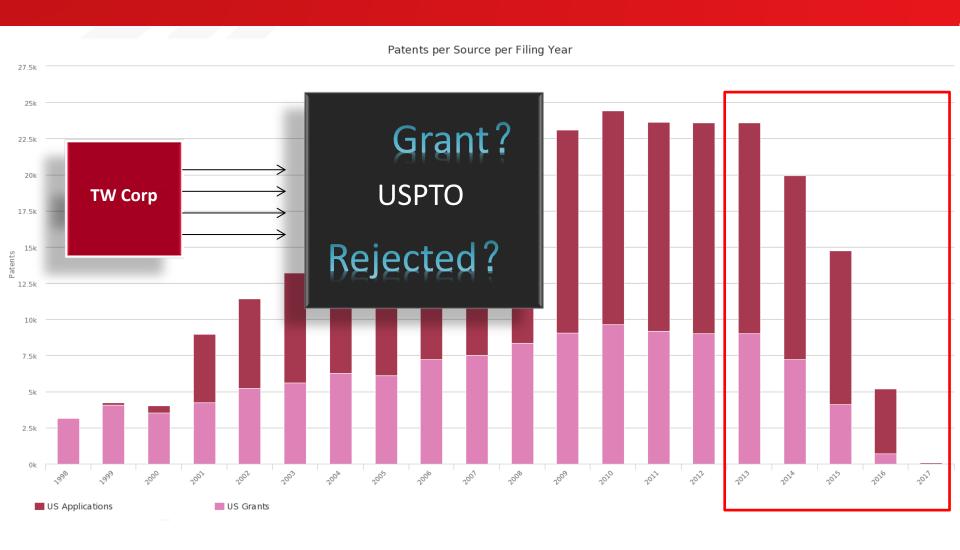
Agenda

- 1. Prosecution Big Data of TW Corp before USPTO
- 2. Prosecution Effectiveness of TW Corp before USPTO
- 3. Leveraging Big Data in Prosecution: 3 Real Cases



eq

1. US Patent Filing Trend by TW Corp









Grant Rate of Applications since 2013

ALLOWANCE RATE

70.1%

TOTAL NUMBER OF APPLICATIONS

42275

TOTAL

19018 PATENTED APPLICATIONS

8096 ABANDONED APPLICATIONS

15161 PENDING APPLICATIONS

Allowance rate: 81.9%

Applications with Electronic File Histories*

8300 Patent Granted Applications

1830 Abandoned Applications

18655 Pending Applications

28785 Total Applications



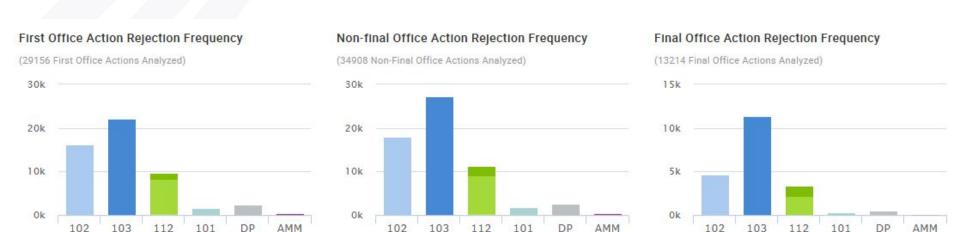








Rejection Statistics







- 35 U.S.C. §103 Rejection
- 35 U.S.C. §112 First Paragraph Rejection
- 🌕 35 U.S.C. §112 Second Paragraph Rejection
- 🌕 35 U.S.C. §112 Fourth Paragraph Rejection
- 35 U.S.C. §112 Fifth Paragraph Rejection
- 35 U.S.C. §112 Sixth Paragraph Rejection

- 35 U.S.C. §101 Rejection
- Obviousness Type Double Patenting Rejection
- Statutory Type Double Patenting Rejection
- References Alice
- References Mayo
- References Myriad





RCE

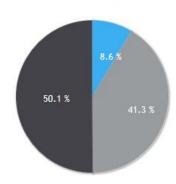
Applications with at least one RCE before Patent Issuance/Abandonment

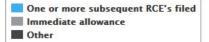


3077 out of 27114 case/s

■ YEAR-OVER-YEAR BREAKDOWN

OUTCOME AFTER 1st RCE





RCE'd Applications with Two or More RCE's before Patent Issuance/Abandonment

→41.3%

8.6%

1271 out of 3077 case/s

Notice of Allowance

265 out of 3077 case/s

■ YEAR-OVER-YEAR BREAKDOWN

Applications where a first RCE results in immediate

■ YEAR-OVER-YEAR BREAKDOWN







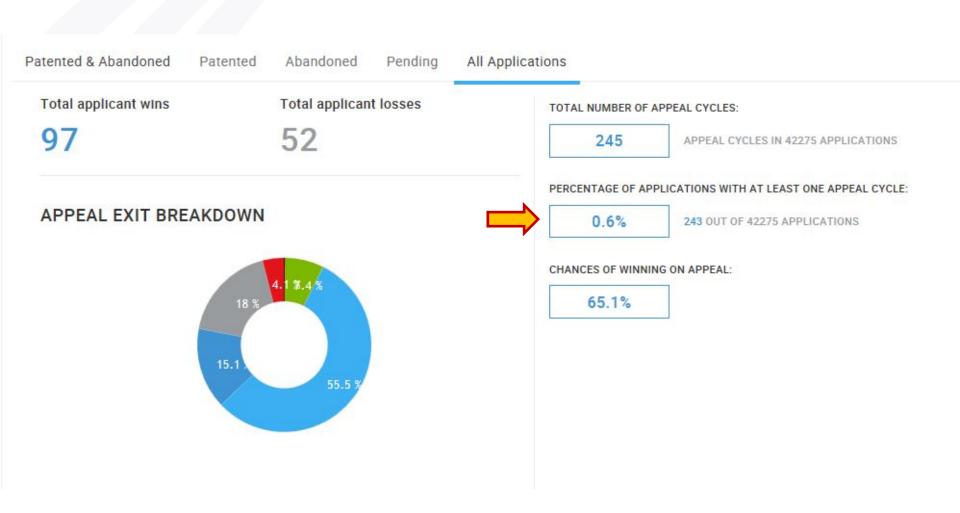
Interview Statistics

Patented & Abandoned Patented Pending All Applications Abandoned Percentage of Applications with at least one Interview Allowance 13.7% <---Abandonment Following the Interview, the RCE 5791 out of 42275 applications **Next Significant** Final OA Event Was: Non-Final OA Undetermined 500 1000 1500 2000 2500 3000 35...





Appeal Statistics







About Appeal

Asian companies have rarely filed appeals.

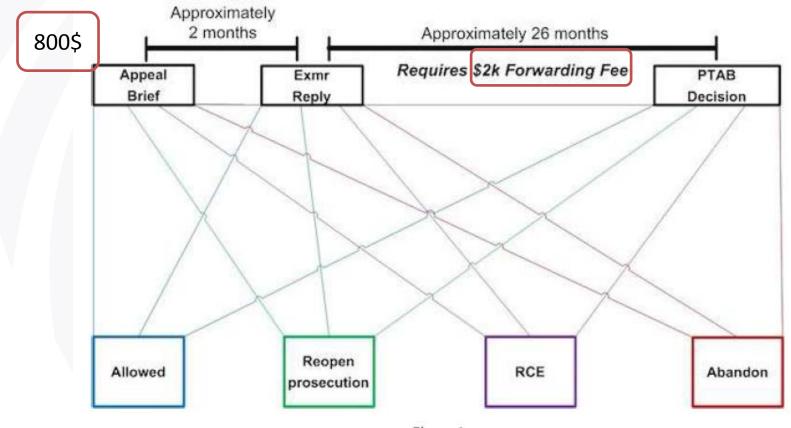


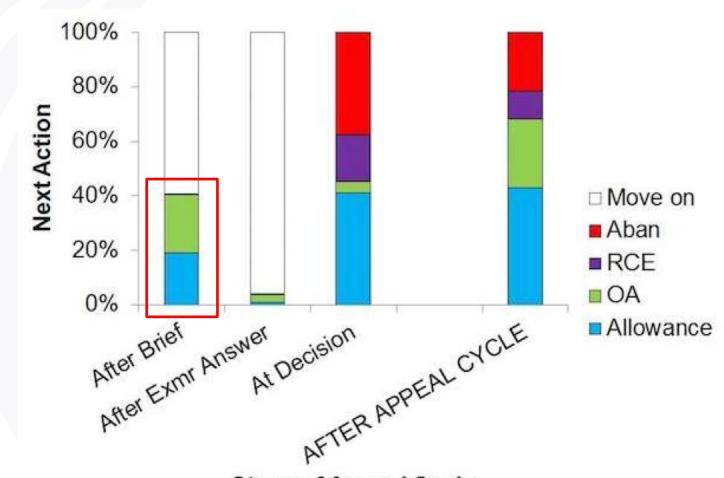
Figure 1

Ref: Ex Parte Appeal as a Potential Means to Quick Allowances





USTPO Overall Appeal Statistics



Stage of Appeal Cycle

Ref: Ex Parte Appeal as a Potential Means to Quick Allowances





Appeal Statistics

	area been les	The next	Allowance	9
Notice of Appeal:	7.4% 18 of 245 cycles	significant	Abandonment	0
		event was:	RCE	3
			Final Office Action	0
			Non-final Office Action	0
			Undetermined	6
		The next	Allowance	33 (Applicant Win)
		significant	Abandonment	17 (Applicant Loss)
Pre-Appeal Brief Request for	55.5% 136 of 245	event was:	RCE	22 (Applicant Loss)
Review:	cycles		Final Office Action	4 (Applicant Win)
			Non-final Office Action	31 (Applicant Win)
			Undetermined	29
Appeal Brief:	15.1% 37 of 245 cycles	The next	Allowance	18 (Applicant Win)
		significant event was:	Abandonment	1 (Applicant Loss)
			RCE	0 (Applicant Loss)
			Final Office Action	0 (Applicant Win)
			Non-final Office Action	6 (Applicant Win)
		2000	Undetermined	12
		The next	Allowance	0 (Applicant Win)
	10000	significant	Abandonment	9 (Applicant Loss)
Examiner's Reply:	18% 44 of 245	event was:	RCE	2 (Applicant Loss)
	cycles		Final Office Action	0 (Applicant Win)
			Non-final Office Action	0 (Applicant Win)
			Undetermined	33
		The next	Allowance	5 (Applicant Win)
		significant	Abandonment	1 (Applicant Loss)
BPAI/PTAB Decision:	4.1% 10 of 245	event was:	RCE	0 (Applicant Loss)
	cycles		Final Office Action	0 (Applicant Win)
			Non-final Office Action	0 (Applicant Win)
			Undetermined	4

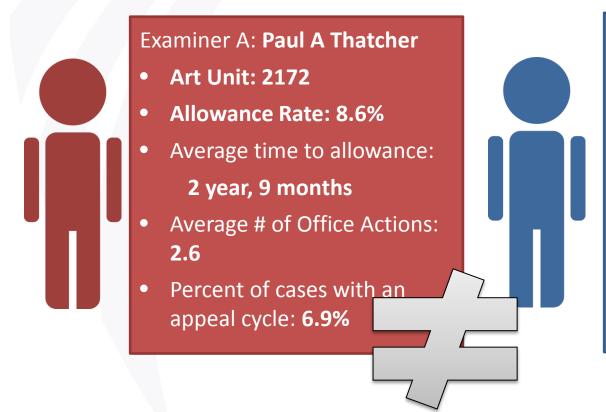
ICATIONS

PEAL CYCLE:

NS



2. Prosecution Effictiveness - Examiner Profile



Examiner B: Matthew Ell

Art Unit: 2172

Allowance Rate: 62.8%

Average time to allowance:

2 years, 5 months

Average # of Office Actions:3.1

Percent of cases with an appeal cycle: 15.7%







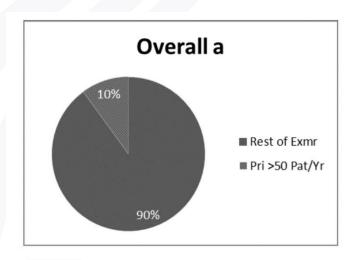
Examiner Productivity System

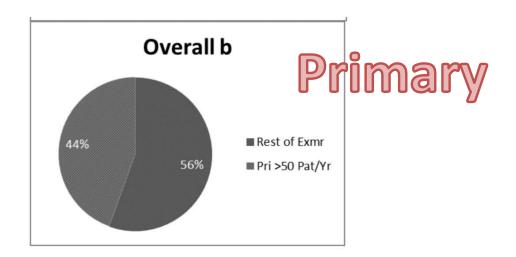
	0 RCEs	1 RCE	2+ RCEs
Non-Final OA	1.25	1.00	0.75
Final OA	0.25	0.25	0.25
RCE	0.5	0.5	0.5
Examiner's Answer	0.5	0.5	0.5
Abandonment	0.5	0.5	0.5
Allowance	0.5	0.5	0.5

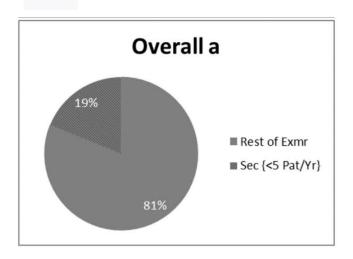


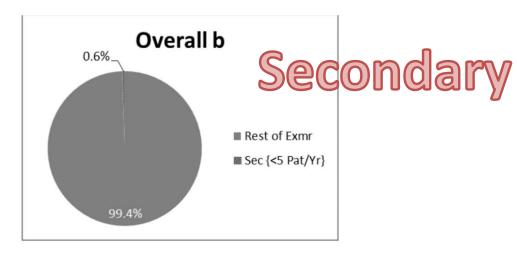


Primary & Secondary Examiners













A-Type Examiner (Grant Rate > 70%)

ALLOWANCE RATE

82.8% <



TOTAL NUMBER OF APPLICATIONS

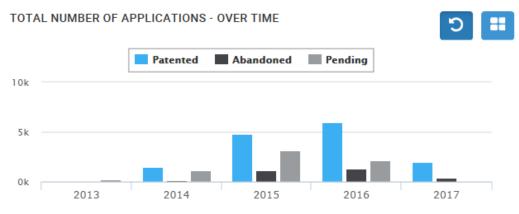
24264

TOTAL

14440 PATENTED APPLICATIONS

3006 ABANDONED APPLICATIONS

6818 PENDING APPLICATIONS



Granted/abandoned shown in year granted/abandoned.

Pending shown in year filed.





C-Type Examiner (Grant Rate < 30%)

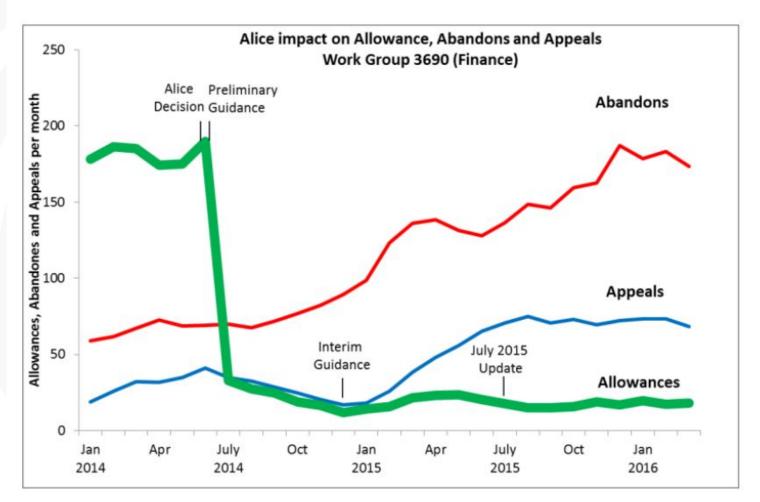
Patented Aba	ndoned Pending		
Search:			1 - 10 OF 1270
Application	↑↓ Filing Date	↑↓ Status	↑↓ Number of Office Actions ↑↓
13/740,488	2013-01-14	Response to Non-Final Office Action Entered and Forwarded to Examiner	7 office actions (Examiner average is 2.6)
13/798,581	2013-03-13	Final Rejection Mailed	6 office actions (Examiner average is 3.1)
13/755,376	2013-01-31	Final Rejection Mailed	6 office actions (Examiner average is 3)
13/773,575	2013-02-21	Final Rejection Mailed	6 office actions (Examiner average is 2.6)
13/773,617	2013-02-21	Docketed New Case - Ready for Examination	6 office actions (Examiner average is 2.6)
13/974,246	2013-08-23	Final Rejection Mailed	6 office actions (Examiner average is 2.1)
14/081,580	2013-11-15	Docketed New Case - Ready for Examination	6 office actions (Examiner average is 2.1)
14/109,318	2013-12-17	Final Rejection Mailed	6 office actions (Examiner average is 2.1)
13/773,605	2013-02-21	Final Rejection Counted, Not Yet Mailed	5 office actions (Examiner average is 4.5)
13/828,489	2013-03-14	Non Final Action Mailed	5 office actions (Examiner average is 4.5)







Example: 3690 Art Unit



Ref: Surviving Alice in the Finance Arts, by Mark Nowotarski





TW Corp in 3690

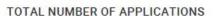
ALLOWANCE RATE

0% 📛



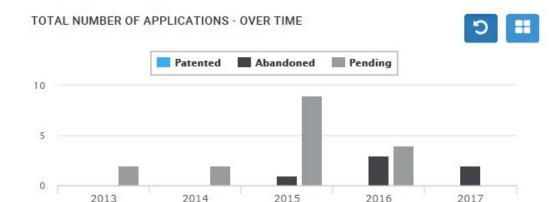




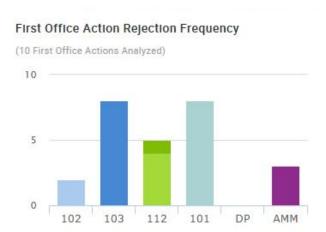


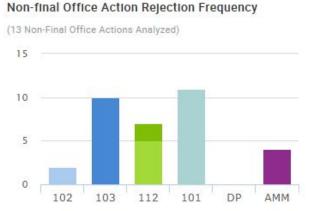
23TOTAL

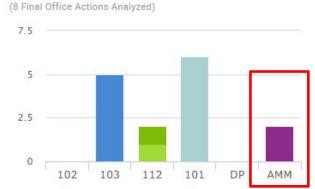
PATENTED APPLICATIONS
 ABANDONED APPLICATIONS
 PENDING APPLICATIONS



Granted/abandoned shown in year granted/abandoned.
Pending shown in year filed.







Final Office Action Rejection Frequency

How to Overcome Alice Rejection?

APPLICATION: 13/915,173

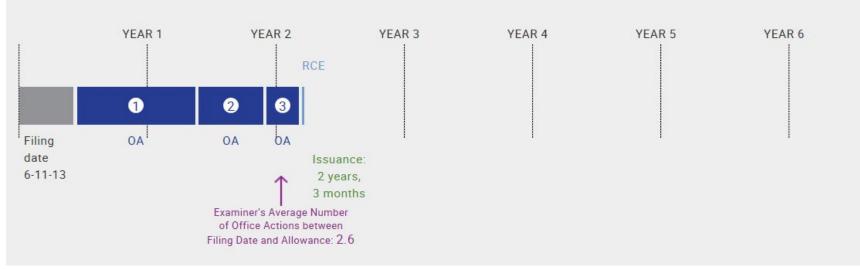
EXAMINER: Chang, Edward

EXAMINER'S ALLOWANCE RATE: 53.2%

ART UNIT: 3696

TITLE: MOBILE DEVICE AND CONTROL METHOD THEREOF

STATUS: Patented







Preventive Measures When Drafting

1. A continuo de finaplication de destination de la caral de la ca







3. 3 Real Cases 100%

1. App. No.: 14/303,***

Suggested: filing RCE;

Actual: filed RCE and got grant right after.

2. App. No.: 14/572,***

Suggested: filing RCE;

Actual: filed RCE and got grant right after.

3. App. No.: 14/286,***

Suggested: ABD;

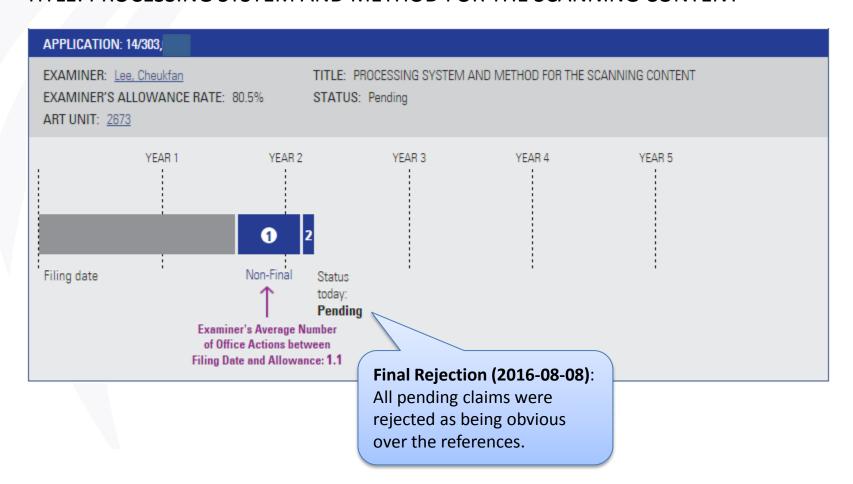
Actual: still filed RCE and got rejection again.





1) 14/303,***

TITLE: PROCESSING SYSTEM AND METHOD FOR THE SCANNING CONTENT







Examiner Data

EXAMINER: Lee, Cheukfan

EXAMINER'S ALLOWANCE RATE: 80.5%

Art Unit Search Results for

2673 - FACSIMILE AND STATIC PRESENTATION PROCESSING

Not many applications

with RCE, but a high grant rate out of a first RCF.

Allowance rate: 78.8%

REQUEST FOR CONTINUED EXAMINATION

Applications with at least one RCE before Patent Issuance/Abandonment

RCE'd Applications with Two or More RCE's before Patent Issuance/Abandonment

Applications where a first RCE results in immediate Notice of Allowance

21.8% 19 out of 87 RCE'd cases | Year-over-Year Breakdown

Year-over-Year Breakdown





Examiner Data

Percentage of Applications with at least one AFCP 2.0 request before Patent Issuance/Abandonment

1% 9 out of 902 applications Following the request, the Next Significant Event Was:

Allowance (Applicant Win) <u>5</u>
Advisory Action (Applicant Lost) <u>4</u>
Other 0

Percentage of Applications with at least one Interview before Patent Issuance/Abandonment

12.4% 112 out of 902 applications Following the Interview, the Next Significant Event Was:
 Allowance
 62

 Abandonment
 7

 RCE
 6

 Final Office Action
 8

 Non-Final Office Action
 14

 Undetermined
 15

A "NICE" Examiner





Invention per se

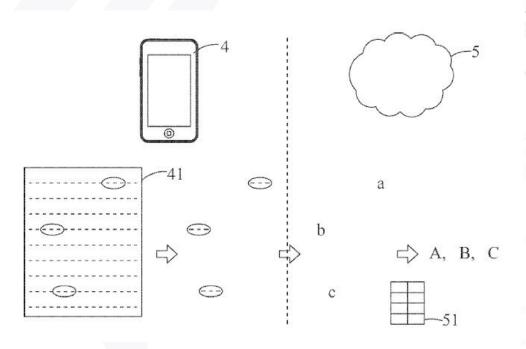


TABLE 2

Selecting way	Content type	Processing ways or tasks
Circling	Telephone number	Storing the telephone number to the address book
	Terminology	Inquiring Wiki

TABLE 3

Selecting way	Content type	Processing ways or tasks	
Underlining	English vocabulary	Translating the English vocabulary into Chinese	
	Web address	Connecting to the page of the web address	

TABLE 4

Selecting way	Content type	Processing ways or tasks
Fluorescent mark	Skype account address	Storing the Skype account Storing the address





Suggestions & Actual Response

	Suggestions we made (2016-09-30)	Response by Prospect (2016-11-08)	
Amendment:	xxx	followed our suggestion and added another related limitation	
Arguments:	References fail to disclose that a plurality of task tables corresponding to a plurality of ways of selecting the area respectively. Emphasize the benefit out of corresponding different selected ways to different task table, i.e., enabling an efficient and structurized way of processing and storing a scanned document.	Followed our suggestion	
Response:	AFCP (P3). Upon receiving advisory action afterwards, then file RCE.	Filed RCE	
Note:	About AFCP timing : File an AFCP response within two months of the final office action's mailing date to minimize the impact of extension fees.		





Outcome



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspio.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

Muncy, Geissler, Olds & Lowe, P.C. 4000 Legato Road Suite 310 FAIRFAX, VA 22033 EXAMINER

LEE, CHEUKFAN

ART UNIT PAPER NUMBER

2673

DATE MAILED: 01/18/2017

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/303,	06/12/2014	Li Huang	4994/0328PUS1	2635

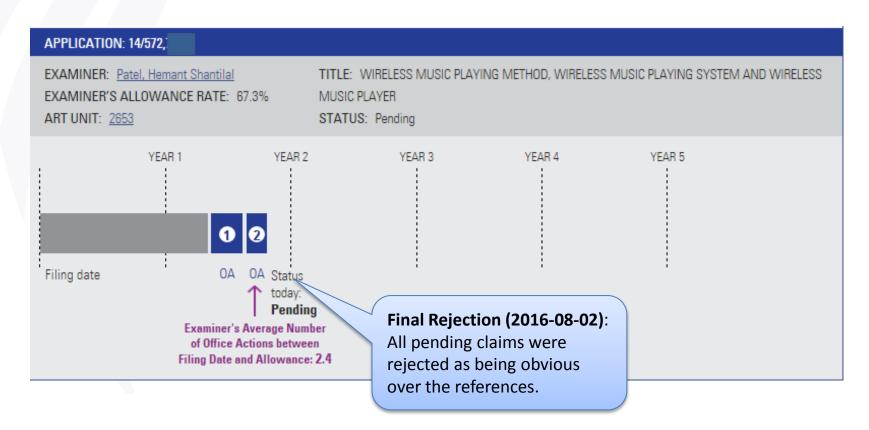
TITLE OF INVENTION: PROCESSING SYSTEM AND METHOD FOR THE SCANNING CONTENT





2) 14/572,***

TITLE: WIRELESS MUSIC PLAYING METHOD, WIRELESS MUSIC PLAYING SYSTEM AND WIRELESS MUSIC PLAYER







Examiner Data

EXAMINER: Patel, Hemant Shantilal

EXAMINER'S ALLOWANCE RATE: 67.3%

Art Unit Search Results for

2653 - TELEPHONIC COMMUNICATIONS

Allowance rate: 85.1%

A high percentage of applications with RCE

Applications with at least one RCE before Patent Issuance/Abandonment

RCE'd Applications with Two or More RCE's before Patent Issuance/Abandonment

32.9% 68 out of 207 RCE'd cases

A high percentage of applications with RCE

38.7% 207 out of 535 applications

Year-over-Year Breakdown

32.9% 68 out of 207 RCE'd cases

Year-over-Year Breakdown

35.3% 73 out of 207 RCE'd cases





Examiner Data

Percentage of Applications with at least one Interview before Patent Issuance/Abandonment

26.5% 142 out of 535 applications Following the Interview, the Next Significant Event Was: Allowance
Abandonment
RCE
Final Office Action
Non-Final Office Action

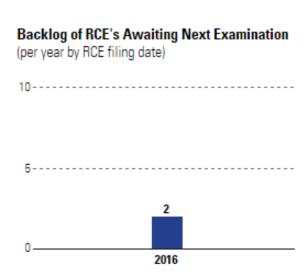
Undetermined

13 3

A TOUGH Examiner, but:

 may get a good chance in requesting interview;
 will not wait long upon

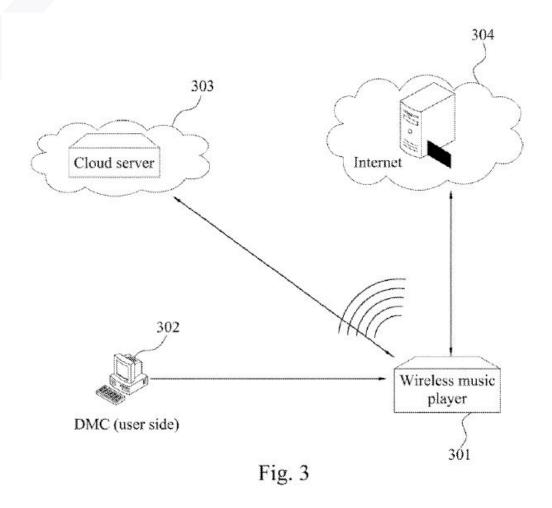
filing a RCE.







Invention per se







Suggestions & Actual Response

	Suggestions we made (2016-09-30)	Response by Prospect (2016-10-30)	
Arguments:	To realize automatically classified playing according to user preference setting (time, source, sound volume and effect, etc.) in advance, thereby significantly improving user experience without the need of physical manipulation afterwards.	Partly followed our suggestion	
Response:	Draft claim amendments, request a pre- review interview with the Examiner, and seek the Examiner's opinion about the draft claims. If he's ok, then file RCE.	Filed RCE	
Note:	Given the examiner data, it is worth filing a RCE if the invention is important to applicant, but we would suggest a pre-review interview before the RCE filing.		





Outcome



HONG KONG

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

JAMES O""SULLIVAN
Room 1901, 19/F, Lee Garden One, 33 Hysan Avenue,
Causeway Bay
Hong Kong,

24 DAYS after the response

EXAMINER

PATEL, HEMANT SHANTILAL

ART UNIT PAPER NUMBER

2653

DATE MAILED: 11/23/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/572,	12/16/2014	Chuan-Yi CHANG	TWT03633/US	1053

TITLE OF INVENTION: WIRELESS MUSIC PLAYING METHOD, WIRELESS MUSIC PLAYING SYSTEM AND WIRELESS MUSIC PLAYER





3) 14/286,***

TITLE: AMOLED DISPLAY PANEL, METHOD OF FABRICATING FILM LAYER AND DISPLAY APPARATUS







Examiner Data

EXAMINER: Schoenholtz, Joseph

EXAMINER'S ALLOWANCE RATE: 89.5%

2893 - SEMICONDUCTOR DEVICE MANUFACTURING:

PROCESS

Allowance rate: 76.8%

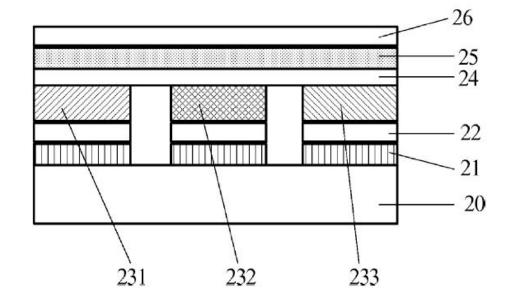
				Time from 1st OA to	Total
Name	Allow Rate	% RCE	% Appeal	Allowance	Cases
SAMSUNG	95.5%	4.8%	0%	7 M	30
LG	100%	0%	0%	6 M	15
IBM	100%	9.1%	0%	4 M	18
TSMC	100%	0%	0%	7 M	10
MICRON	100%	28.6%	0%	6 M	11





Why?

- The original Claim 1 is too broad.
 Examiner cited new references each time, to show the invention is basically claiming prior art;
- 2. Applicant made very minor amendments each time;
- Had 2 interviews but did not prepare well (cannot answer questions presented by Examiner during the interviews);
- 4. The application was not drafted well: invention not sufficiently disclosed and nothing in the specification can support a further narrower amendment.



"NICE" Examiner Irritated!





3. Response & Outcome

	Suggestions we made (2016-10-14)	Response by Prospect (2016-10-28)
Response:	ABD: neither RCE nor Appeal will work	Requested another interview (not successful), and filed RCE

Office Action Summary	Application No. 14/286,	Applicant(s) XIONG ET AL.	
	Examiner Joe Schoenholtz	Art Unit 2893	AIA (First Inventor to File) Status Yes
The MAN INC DATE of this communication		ish she a company of the	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONE
 Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed
 earned patent term adjustment. See 37 CFR 1.704(b).

Status

Responsive to communication(s) filed on <u>RCE filed 28 October</u>, <u>2016</u>.
 A declaration(s)/affidavit(s) under 37 CFR 1.130(b) was/were filed on

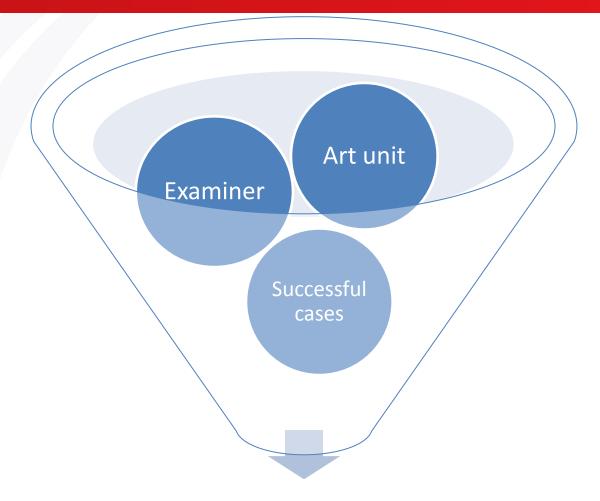
2a) This action is FINAL.

2b) This action is non-final.

A new 20-page OA citing case law issued (2016-11-22)!



Strategic Prosecution



Faster grant, broader claims









