```
Page 1
 1
              UNITED STATES PATENT AND TRADEMARK OFFICE
              BEFORE THE PATENT TRIAL AND APPEAL BOARD
 2
 3
       ARGENTUM
                                  )
 4
       PHARMACEUTICALS LLC,
 5
                Petitioner,
                                     Inter Partes
                                     Review No.
 6
          vs.
                                     IPR2017-01053
7
       ALCON RESEARCH, LTD.,
                                  )
 8
                Patent Owner.
 9
10
11
                The deposition of GEORGE G. ZHANEL, Ph.D.,
12
       called by the Petitioner for examination, pursuant
13
       to stipulation, and pursuant to the applicable
14
       rules, taken before Sandra L. Rocca, CSR, CRR, at
15
       321 North Clark Street, Chicago, Illinois, on the
       10th of April, 2018, at the hour of 11:57 a.m.
16
17
18
19
20
2.1
2.2
2.3
24
                                                   Exhibit 1048
2.5
                                                   ARGENTUM
```



	Page 2
1	APPEARANCES:
2	
	FOLEY & LARDNER
3	By: MR. MICHAEL R. HOUSTON, Ph.D.
	321 North Clark Street, Suite 2800
4	Chicago, Illinois 60654-5313
	312.832.4378
5	mhouston@foley.com
6	appeared on behalf of the
	Petitioner;
7	
8	
	WILLIAMS & CONNOLLY, LLP
9	By: MR. ALEXANDER S. ZOLAN
	MR. ADAM L. PERLMAN
10	725 12th Street, NW
	Washington, D.C. 20005-5901
11	202.434.5208
	azolan@wc.com
12	aperlman@wc.com
13	appeared on behalf of the
	Patent Owner.
14	
15	
16	
17	
18	
19	
2 0	
21	
22	
23	
2 4	
25	



		Page 3
1	INDEX	
2	WITNESS	PAGE
3	GEORGE G. ZHANEL, Ph.D.	
4	EXAMINED BY	
5	Mr. Houston	4
6		
7		
	EXHIBITS	
8		
	NUMBER	PRESENTED
9		
10	Exhibit 1001 U.S. Pat. No. 8,268,299	29
11	Exhibit 1003 WO 2005/097067 A1	26
12	Exhibit 1004 U.S. Pat. No. 6,143,799	60
13	Exhibit 1007 U.S. Pat. No. 6,011,062	63
14	Exhibit 2025 ALCON 2025	
	Zhanel declaration	5
15		
	Exhibit 2123 T.J. McCarthy article	110
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		



1 GEORGE G. ZHANEL, Ph.D., 2 having been first duly sworn, was examined and testified as follows: 3 CROSS EXAMINATION 5 BY MR. HOUSTON: Good afternoon, sir. Could you start just 6 7 by stating your full name for the record? My name is George Zhanel. 8 9 And Dr. Zhanel, is that right? 10 Α Dr. Zhanel. 11 Dr. Zhanel, have you sat for a deposition 12 previously? 13 Α Yes. 14 About how many times have you been deposed? 15 Α Approximately ten times. 16 So you're reasonably familiar with 17 the procedure here where I'm going to ask you a 18 series of questions and you're going to try to 19 answer those questions to the best of your ability 2.0 while the court reporter sitting here beside us will 21 try record the things we say and the questions I ask 2.2 and the answers you give. 23 Α Yes. 24 Given your familiarity with it, then I'll



25

skip some of the other preliminaries and I'll just

Page 5

ask that if there's a point at any time today that I ask you a question that you don't understand or need clarification on, please just ask me for clarification if you need it.

- A Thank you.
- Q Fair enough? Okay.

 (Document marked previously as
 Exhibit 2025 was presented.)
- Q I'll start by handing you, sir, an exhibit that's been marked Exhibit Alcon 2025 which I believe you'll recognize as a copy of the declaration that you submitted in this proceeding. Is that right?
 - A Yes.
- Q I'll ask you to turn to paragraph 10 of your declaration to start with. It's on page 5.
 - A Yes.
- Q And there on paragraph 10 you have listed a number of companies that you have provided some services for. I don't know if the right way to characterize that is consultant services or some other services for these companies. Do you see that there?
 - A Yes.
 - Q At the outset I wanted to clarify, I don't



1

3

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

2.0

21

2.2

23

24

25

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.

