1	UNITED STATES PATENT AND TRADEMARK OFFICE
2	
3	BEFORE THE PATENT TRIAL AND APPEAL BOARD
4	
5	VIZIO, INC.,
6	Petitioner,
7	V.
8	NICHIA CORPORATION,
9	Patent Owner.
10	
11	Case No. IPR2018-00437
12	Patent 9,537,071
13	DEPOSITION OF STANLEY R. SHANFIELD, Ph.D.
14	East Palo Alto, California
15	Wednesday, December 19, 2018
16	1:01 p.m.
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22	
23	Job No.: 221516
24	Pages: 1 - 99
25	Reported By: Charlotte Lacey, RPR, CSR No. 14224

NICHIA EXHIBIT 2033 Vizio, Inc. v. Nichia Corp. Г

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1	DEPOSITION OF STANLEY R. SHANFIELD, Ph.D., held at
2	the offices of ROPES & GRAY LLP, 1900 University Avenue,
3	6th Floor, East Palo Alto, California
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6	
7	Pursuant to notice, before Charlotte Lacey,
8	Certified Shorthand Reporter, in and for the State of
9	California.
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Transcript of Stanley R. Shanfield, Ph.D. Conducted on December 19, 2018

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1	A P P E A R A N C E S
2	ON BEHALF OF PETITIONER VIZIO, INC.:
3	GABRIELLE E. HIGGINS, ESQUIRE
4	CHRISTOPHER M. BONNY, ESQUIRE
5	JAMES F. MACK, ESQUIRE
6	ROPES & GRAY LLP
7	1900 University Avenue, 6th Floor
8	East Palo Alto, California 94303
9	(650) 617-4000
10	
11	ON BEHALF OF PATENT OWNER NICHIA CORPORATION:
12	MICHAEL H. JONES, ESQUIRE
13	MARTIN M. ZOLTICK, ESQUIRE
14	ROTHWELL, FIGG, ERNST & MANBECK, PC
15	607 14th Street, Northwest, Suite 800
16	Washington, D.C. 20005
17	(202) 7883-6040
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6			
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11	Exhibit S9 C	colored version of figure 12 from	76
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Transcript of Stanley R. Shanfield, Ph.D. Conducted on December 19, 2018

1	PROCEEDINGS		
2	STANLEY R. SHANFIELD, Ph.D.,		
3	the witness herein, having been first duly sworn, was		
4	examined and testified as follows:		
5	EXAMINATION		
6	BY MR. JONES:		
7	Q Good afternoon, Dr. Shanfield.		
8	A Good afternoon.		
9	Q And you understand that you are still under		
10	oath?		
11	A Yes.		
12	Q And the instructions I gave you earlier		
13	regarding how a deposition works, those still apply.		
14	You understand?		
15	A Yes. Thanks.		
16	Q Okay. You have some documents in front of		
17	you?		
18	A Same ones as before, my the two patents,		
19	the '411, the '071, my recent declaration 1017, and my		
20	old declaration 1003.		
21	Q Okay. And those are unmarked?		
22	A Right.		
23	Q Okay. Just so we don't get confused, you can		
24	set the previous S exhibits we've used aside.		
25	Okay. If I refer to the fifth embodiment of		

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