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2   UNITED STATES PATENT AND TRADEMARK OFFICE

3

         BEFORE THE PATENT TRIAL AND APPEAL BOARD

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6   UNIFIED PATENTS INC.,

7   Petitioner,

8   v.

9   VILOX TECHNOLOGIES LLC,

10   Patent Owner.

11   -------------------------------------

12   Case IPR2018-00044
                 Patent 7,302,423 B2

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16   DEPOSITION OF PHILIP GREENSPUN, Ph.D.

17   New York, New York

18   Thursday, May 24, 2018

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24   Reported by:

     MARIANNE WITKOWSKI-SMITH

25   JOB NO. 142397

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4   May 24, 2018

5   9:17 a.m.

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8   Deposition of PHILIP GREENSPUN, Ph.D.,

9   held at the offices of Haynes and Boone, L.L.P.,

10   30 Rockefeller Plaza, 26th Floor, New York, New

11   York, before Marianne Witkowski-Smith, a Shorthand

12   Reporter and Notary Public of the State of New York.

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2 A P P E A R A N C E S:

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12   JOHN HARROP, ESQ.

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17   DG KEY IP

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21   Alexandria, Virginia 22314

22   BY: JAY KESAN, ESQ.

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1   P. Greenspun

2 P H I L I P   G R E E N S P U N, Ph.D.,

3   called as a witness, having been duly

4   sworn by the Notary Public, was examined

5   and testified as follows

6   MR. HARROP: Good morning,

7   Dr. Greenspun. How are you?

8   THE WITNESS: Good, thanks.

9 EXAMINATION

10 BY MR. HARROP:

11   Q.   Good. Let me start out by asking a

12 couple questions about your education.

13   You went to college, correct?

14   A.   Yes.

15   Q.   Where did you get an undergraduate

16 degree?

17   A.   At the Massachusetts Institute of

18 Technology.

19   Q.   And what was your degree in?

20   A.   Electrical engineering and computer

21 science.

22   Q.   Okay. You did not get a degree in

23 mathematics for undergraduate?

24   A.   Oh, I'm sorry, I thought you asked

25 about -- you were asking about graduate

1   P. Greenspun

2   school.

3   No, I got an undergrad in math at

4   MIT, yes.

5   Q.   Okay. Do you remember some of the

6   math courses you took?

7   A.   Well, we're going back to 1979 now.

8   Real analysis, topology, combinatorics,

9   probability, category theory, algebra.

10   That's what I can remember right now easily.

11   Q.   Okay. So you took a course in

12   probability theory then, correct?

13   A.   Yes.

14   Q.   All right. Did you have a textbook

15   for that?

16   A.   I don't remember. I think we just

17   had notes from the professor, Gian-Carlo

18   Rota. I think we just had notes from

19   Gian-Carlo Rota, who was the professor

20   teaching the class.

21   Q.   Did you have textbooks for any of

22   the math courses that you took?

23   A.   Yes.

24   Q.   Okay. What were those textbooks

25   like, what did they contain?

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