

1 UNITED STATES PATENT AND TRADEMARK OFFICE
2 BEFORE THE PATENT TRIAL AND APPEAL BOARD

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4 SERVICENOW, INC.,

5 Petitioner

6 v.

7 HEWLETT-PACKARD COMPANY,

8 Patent Owner

9 Case No. IPR2015-00717

10 U.S. Patent No. 7,027,411

11 - - - -

12
13 DEPOSITION OF MICHAEL I. SHAMOS, Ph.D.,
14 a witness, called by the Petitioner for examination,
15 in accordance with the Federal Rules of Civil
16 Procedure, taken by and before JoAnn M. Brown, RMR,
17 CRR, a Court Reporter and Notary Public in and for
18 the Commonwealth of Pennsylvania, at the Doubletree
19 by Hilton, 500 Mansfield Avenue, Pittsburgh,
20 Pennsylvania, on Friday, January 22, 2016,
21 commencing at 9:59 a.m.

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25 PAGES 1 - 63

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EXAMINATION INDEX

MICHAEL I. SHAMOS, Ph.D.

BY MR. MACE

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(No Deposition Exhibits were marked.)
(Previously marked exhibits attached for reference.)

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MICHAEL I. SHAMOS, Ph.D.,
having been duly sworn,
was examined and testified as follows:

- - - -

EXAMINATION

- - - -

BY MR. MACE:

Q. All right. Good morning, Dr. Shamos.

A. Good morning.

Q. Could you please state your full name for the record, please?

A. Michael Ian, I-A-N, Shamos, S-H-A-M-O-S.

Q. Can you describe your educational background for me?

A. How much time do you have?

Q. Well, let's just cover the formal education.

A. All right. So I think the relevant part actually starts in high school when I was first exposed to computers as a weekend student at Columbia University, so that would be in 1962. I wanted to study computers, but at the time there was no field called computer science. The computer was a tool that was used by other disciplines. So I couldn't

1 major in computer science, so, as an
2 undergraduate, I majored in physics, spent a
3 lot of time at the university computer center,
4 and then immediately upon graduation, I
5 started working for IBM, which was kind of the
6 dream job for somebody who was interested in
7 computers. I spent two years at IBM as a
8 programmer in the manufacturing plant that
9 makes semiconductors. I was involved in
10 quality assurance, so there was a production
11 line. As the semiconductors came off the
12 production line, they were subjected to 200
13 different electrical tests in real time, and
14 those tests, of course, were used to determine
15 whether the module that had been manufactured
16 was suitable for shipping, but also in the
17 manufacturing line, if the percentage of
18 defective product changes, that can indicate
19 something about the manufacturing process
20 having gone awry. So, in addition, to the
21 manufacturing people being interested in
22 shipping good product, the quality people were
23 very interested in detecting problems with the
24 manufacturing line. So I wrote the software
25 that analyzed the electrical tests to try to

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