

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

3 _____
4 THE GILLETTE COMPANY, Cases: IPR2014-00477
5 Petitioner, IPR2014-00479
6 v. Patent 8,125,155 B2
7 ZOND, INC.,
8 Patent Owner.
9 _____

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12 VIDEOTAPED DEPOSITION of RICHARD DeVITO
13 Boston, Massachusetts
14 November 20, 2014
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21 Reported by:
22 Dana Welch, CSR, RPR, CRR, CBC, CCP
23 Job #87397
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November 20, 2014
9:40 a.m.

Videotaped deposition of RICHARD DeVITO,
held at the offices of WilmerHale, 60 State Street,
Boston, Massachusetts, before Dana Welch, Certified
Shorthand Reporter, Registered Professional
Reporter, Certified Realtime Reporter and Notary
Public of the Commonwealth of Massachusetts.

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APPEARANCES (continued)
For The Gillette Company:
WILMERHALE
60 State Street
Boston, MA 02109
BY: LARISSA BIFANO PARK, ESQ.

For Taiwan Semiconductor Manufacturing Company,
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2323 Victory Avenue
Dallas, TX 75219
BY: DAVID McCOMBS, ESQ.

HAYNES AND BOONE
1221 McKinney
Houston, TX 77010
BY: DONALD JACKSON, ESQ.

--- appearances continue ---

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APPEARANCES:
For Zond, LLC:
RADULESCU
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New York, NY 10118
BY: ETAILAHAV, ESQ.

- AND -

CHAO HADIDI STARK & BARKER
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Westborough, MA 01581
BY: BRUCE BARKER, ESQ.

For The Gillette Company:
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1875 Pennsylvania Avenue, N.W.
Washington, D.C. 20006
BY: DAVID CAVANAUGH, ESQ.

--- appearances continue ---

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APPEARANCES (continued)
HAYNES AND BOONE
2505 North Plano Road
Richardson, TX 75082
BY: GREGORY HUH, ESQ.

Also Present: David Woodford, Videographer
Joann Pappas, The Gillette Company

1 DeVITO
 2 PROCEEDINGS
 3 THE VIDEOGRAPHER: This is tape number one
 4 to the videotaped deposition of Richard DeVito.
 5 This is in the matter of The Gillette Company,
 6 petitioner, versus Zond LLC, patent owner, Case
 7 IPR2014-00479 and also Case IPR2014-00477 for
 8 Patent 8,125,155 B2. This is in the U.S. Patent
 9 and Trademark Office before the Patent and Trial
 10 Appeal Board.
 11 This deposition is being held at the firm
 12 of WilmerHale at 60 State Street, Boston,
 13 Massachusetts on November 20th, 2014 beginning at
 14 9:40 a.m.
 15 My name is David Woodford. I am the legal
 16 video specialist from TSG Reporting, Inc.,
 17 headquartered at 747 Third Avenue, New York, New
 18 York. The court reporter is Dana Welch, in
 19 association with TSG Reporting.
 20 Will counsel present please introduce
 21 yourselves and the witness will be sworn.
 22 MR. LAHAV: Etai Lahav of Radulescu LLP
 23 representing patent owner Zond.
 24 MR. BARKER: This is Bruce Barker from
 25 Chao Hadidi Stark & Barker also for Zond.

1 DeVITO
 2 address for the record.
 3 A. Richard DeVito, 11 Parkside Drive, Jamaica
 4 Plain, Massachusetts.
 5 Q. Have you ever given a deposition before?
 6 A. In a divorce case years ago.
 7 Q. Apart from the divorce case years ago,
 8 have you ever given a deposition?
 9 A. No.
 10 Q. So before we begin in earnest, I'll go
 11 over some rules of deposition; is that all right?
 12 A. (Nodding head up and down.)
 13 Q. Do you understand that I'm going to be
 14 asking you questions?
 15 A. Yes.
 16 Q. And do you understand you have an
 17 obligation to answer my questions?
 18 A. I do.
 19 Q. Do you understand that from time to time
 20 your attorney my object to my questions?
 21 A. I do.
 22 Q. Do you understand that nevertheless you
 23 have an obligation to answer those questions?
 24 A. I do.
 25 Q. The only instance where you do not have to

1 DeVITO
 2 MR. CAVANAUGH: David Cavanaugh of
 3 WilmerHale representing Gillette.
 4 MS. PARK: Larissa Park of WilmerHale
 5 representing Gillette.
 6 MS. PAPPAS: Joann Pappas, from Gillette.
 7 MR. HUH: Gregory Huh of Haynes and Boone,
 8 representing TSMC.
 9 MR. JACKSON: Don Jackson, representing
 10 TSMC.
 11 MR. McCOMBS: David McCombs, representing
 12 TSMC.
 13 RICHARD DeVITO, sworn
 14 MR. LAHAV: And before we begin with the
 15 testimony, I note that counsel for TSMC is here and
 16 we don't have any objection to your presence, but
 17 we do object to you speaking on the record since
 18 it's Gillette's petition. Hopefully that won't be
 19 an issue, but if it does, I guess we can talk about
 20 it later.
 21 EXAMINATION
 22 BY MR. LAHAV:
 23 Q. Good morning, Mr. DeVito.
 24 A. Good morning.
 25 Q. Will you please state your full name and

1 DeVITO
 2 answer my question is if the attorney objects for
 3 attorney/client privilege or work product. Do you
 4 understand that?
 5 A. I do.
 6 Q. If you need a break at any time, please
 7 let me know and we'll be happy to go on a break.
 8 A. Okay. Thank you.
 9 Q. One exception to that is if there is a
 10 question pending, then I'll insist on an answer
 11 before we take a break. Is that okay?
 12 A. Understood.
 13 Q. If I ask you a question that you don't
 14 understand, can you please let me know and I'll
 15 rephrase.
 16 A. Okay. Great.
 17 Q. If you answer a question, I'm going to
 18 assume you understood it; is that all right?
 19 A. Okay.
 20 Q. You understand you just took an oath to
 21 tell the truth?
 22 A. I do.
 23 Q. You will tell the truth today?
 24 A. I will.
 25 Q. Are you taking any medication today that

1 DeVITO
2 would impair your ability to testify truthfully?
3 A. I am not.
4 Q. Is there any other reason why you are not
5 able to testify truthfully today?
6 A. There is not.
7 Q. Please describe your post high school
8 education.
9 A. I have a degree in physics from Suffolk
10 University and a master's degree in physics --
11 experimental solid state physics from Syracuse
12 University.
13 Q. In your bachelor's degree, did you ever
14 take any classes in plasma physics?
15 A. Not plasma physics, per se, no.
16 Q. And in your graduate work, did you take
17 any plasma physics classes?
18 A. Not plasma physics, per se, no.
19 Q. Did you take any classes in either
20 bachelor's or master's relating to sputter
21 deposition?
22 A. I did not, no.
23 Q. Any classes on any PVD process?
24 A. No.
25 Q. In the CV that you submitted along with

1 DeVITO
2 your declaration, you begin your experience in --
3 your commercial experience in 1987; is that fair?
4 A. Sounds about right.
5 At Litton?
6 Q. Yeah.
7 And so from 1987 to 1994 you were employed
8 by Litton?
9 A. I'd have to see, but it sounds about
10 right.
11 Q. Okay. And what were your responsibilities
12 at Litton?
13 A. Well, they were varied.
14 Do you just want to know about the
15 thin-film stuff or PVD stuff?
16 Q. Why don't you tell me about the PVD stuff.
17 A. Okay. So PVD, I was involved in ion beam
18 deposition, ion beam etching; PVD, I was involved
19 in some sputtering as well, as well as plasma CVD,
20 plasma enhanced CVD.
21 Q. And what do you mean involved with?
22 A. I was the lead researcher on those
23 programs.
24 Q. What did those programs relate to?
25 A. So in the plasma CVD work we were

1 DeVITO
2 making -- and also there was sputtering work, we're
3 making infrared transmitting windows that were
4 resistant to scratching in planes basically,
5 fighter jets.
6 Q. And what specifically was the focus of
7 your research with respect to the plasma CVD?
8 A. So there was sputtering and plasma CVD.
9 So in both work, we were trying to come up with
10 compounds that were transmitting in the infrared
11 and also were very robust and tough in terms of the
12 environment, because they were being used mainly in
13 the desert. So for example, germanium carbide,
14 silicon carbide, these are the types of materials
15 we were trying to deposit using RF and DC
16 sputtering and also plasma enhanced CVD.
17 Q. So you were investigating target
18 materials?
19 A. Well, we would use different targets to
20 get the films.
21 Q. And did you do any research into
22 appropriate pressures or power to be used for the
23 deposition?
24 A. We investigated the entire space using
25 design of experiments.

1 DeVITO
2 Q. And in your specific role in that
3 research, did that relate to the investigation of
4 the pressures and other operating conditions of the
5 deposition chamber?
6 A. I designed the experiments and I actually
7 ran the machine. At first I didn't have a
8 technician; later on I did have a technician. But
9 I was very hands-on. I'm always hands-on.
10 Q. What do you mean by "designed the
11 experiments"?
12 A. So if someone wants to figure out, for
13 example, what -- you look at the pressure, you look
14 at the power, you look at the energetics, and you
15 design experiments around those variables to get a
16 range of experiments that you can test.
17 Q. What do you mean by "energetics"?
18 A. So in the plasma, whether it's PECVD or
19 whether it's sputtering, you have a range of
20 energetics, so the incoming energy of the atoms or
21 the ions.
22 Q. So by "energetics," you mean the energy of
23 atoms or ions?
24 A. Correct.
25 Q. And you said you did some work in ion beam

1 DeVITO
 2 deposition?
 3 A. Correct.
 4 Q. And what was that?
 5 A. One second.
 6 So one of the ways to increase the density
 7 of the film is to apply an ion beam directly to the
 8 substrate while the film is growing on it, so we
 9 call that ion beam-assisted deposition.
 10 Q. And what was the application you were
 11 researching?
 12 A. So all these -- my entire thin-film focus
 13 from the company was to enhance the hardness,
 14 enhance the durability of these films that were
 15 transmitting in the infrared, for example, as I
 16 said, silicon carbide, germanium carbide, and
 17 diamond-like carbon.
 18 Q. So all of your thin-film work related to
 19 that application, correct?
 20 A. At Itek, yes -- or Litton, sorry.
 21 Q. And so what's the relationship between
 22 Litton and Itek?
 23 A. So Litton Industries was the conglomerate
 24 that owned Itek.
 25 Q. So you had always worked for Itek or did

1 DeVITO
 2 Q. You may. That means I have to now go
 3 searching for an exhibit.
 4 A. I'm hoping it's in back of one of the
 5 depositions.
 6 Q. I just want to make sure I'm seeking out
 7 the right declaration. I may have to mark several
 8 of them.
 9 I'm handing you what already bears an
 10 Exhibit Number 1005 in the '477 proceeding.
 11 A. Okay. Great.
 12 Q. Before we go to the pending question, can
 13 you please confirm that Exhibit 1005 is a
 14 declaration that you signed in connection with the
 15 '477 petition?
 16 A. Yes.
 17 Q. And so back to the question, we're looking
 18 for the name of the company that you worked with to
 19 design the chamber when you were working at
 20 Litton-Itek
 21 A. I'm sorry. I don't see it here.
 22 Q. Okay. Did you design the magnet for the
 23 chamber?
 24 A. The magnetron? No.
 25 Q. Who designed the magnetron?

1 DeVITO
 2 Litton acquire Itek while you were employed there?
 3 A. I believe several months before I joined
 4 they had purchased Itek Optical Systems.
 5 Q. Did any of your work at Litton-Itek
 6 involve magnetron sputtering?
 7 A. Yes.
 8 Q. And what we just discussed, was that
 9 magnetron sputtering?
 10 A. Yes. For example, the silicon carbide and
 11 germanium carbide were magnetron sputtering.
 12 Q. Any other magnetron sputtering experience
 13 at Litton-Itek?
 14 A. Just that.
 15 Q. Do you remember the chamber that you used?
 16 A. Yes. I designed the chamber.
 17 Q. Okay. So it was -- it wasn't a commercial
 18 chamber, it's one you designed from the ground up?
 19 A. We worked with a company that's no longer
 20 in existence to design that chamber, yes. It was
 21 designed to my specifications.
 22 Q. What was the name of the company?
 23 A. It's been so long ago.
 24 Is it in the -- can I check my CV to see
 25 if it's in there?

1 DeVITO
 2 A. It was a company called S/Gun out in
 3 Stanford, California.
 4 Q. Did you design the power supply for the
 5 chamber?
 6 A. I did not.
 7 Q. Do you know what power supply you used?
 8 A. I believe it was ENI.
 9 Q. Is that E and I or ENI?
 10 A. Capital E capital N capital I.
 11 Q. Do you remember the operating
 12 characteristics of that power supply?
 13 A. Oh, gosh, all I can tell you, it was an RF
 14 supply, that's all I remember. I don't know the
 15 maximum power.
 16 Q. Were there any other power supplies used
 17 for that chamber?
 18 A. We did have a DC power supply as well.
 19 Q. Did you design the DC power supply?
 20 A. No.
 21 Q. And who provided that?
 22 A. Advanced Energy.
 23 Q. AE?
 24 A. AE, yes.
 25 Q. Yeah.

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