

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

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 :
CARL ZEIS SMT GMBH :
 :
Petitioner :
 : Case IPR2013-00362
v. :
 : Patent 7,348,575
NIKON CORPORATION :
 :
Patent Owner :
 :
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CROSS-EXAMINATION BY DEPOSITION
OF RICHARD C. JUERGENS

WEDNESDAY, FEBRUARY 12, 2014
9:10 AM

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One Marina Park Drive
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Sandra A. Deschaine, CSR, RPR, CLR, CRA

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1 I N D E X

2 WITNESSES: PAGE

3 Richard C. Juergens

4 By Mr. Zern 4/275

5 By Mr. Glitzenstein 265

6

7 E X H I B I T S

8 EXHIBITS: DESCRIPTION PAGE

9 Exhibit 2001 International
10 Technology Roadmap for
Semiconductors, 2003 69

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1 RICHARD C. JUERGENS, Deponent,
2 having first been satisfactorily identified
3 by the production of his Arizona driver's
4 license and duly sworn by the Notary Public,
5 was examined and testified as follows:

6

7 MR. GLITZENSTEIN: Kurt
8 Glitzenstein of Fish & Richardson. I
9 represent Carl Zeiss.

10 MR. WEFERS: Marc Wefers of Fish &
11 Richardson. I also represent Carl
12 Zeiss.

13 MR. KERN: John Kern of Oblon
14 Spivak. I represent Nikon
15 Corporation.

16 MR. MATTSON: Robert Mattson of
17 Oblon Spivak, also representing Nikon
18 Corporation.

19 CROSS-EXAMINATION

20 BY MR. KERN:

21 Q. Good morning, Mr. Juergens.

22 A. Good morning.

23 Q. Do you know why you're here today?

24 A. Yes.

1 Q. Are you an expert witness for Carl
2 Zeiss in IPR matter IPR2013-00362?

3 A. I am.

4 Q. And that is involving U.S. Patent
5 Number 7,348,575?

6 A. That's correct.

7 Q. I want to let you know, before we
8 get into the general questions, that if at
9 any point during our deposition, if you don't
10 understand a question or a question isn't
11 clear, please feel free to ask me to repeat
12 the question or rephrase the question.

13 Is that clear?

14 A. Yes.

15 Q. I'm going to start off with some
16 general questions.

17 In the context of
18 microilithography, what does it mean to be a
19 dioptric projection optical system?

20 A. "Dioptric" means that the
21 projection system consists entirely of
22 transmitting elements or lenses and does not
23 contain any powered mirrors.

24 Q. But could it retain or include

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