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

- - - - - x  
US ENDODONTICS, LLC, :  
Petitioner, : Case No. IPR2015-00632  
v. : U.S. Patent No.  
GOLD STANDARD : 8,727,773 B2  
INSTRUMENTS, LLC, :  
Patent Owner. :  
- - - - - X

Videotaped Deposition of ROBERT SINCLAIR, Ph.D.  
Washington, DC  
Monday, January 18, 2016  
9:02 a.m.

Job No.: 98829  
Pages 1 - 310  
Reported by: Debra A. Whitehead

Videotaped Deposition of Robert Sinclair, Ph.D.  
Conducted on January 18, 2016

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Videotaped Deposition of ROBERT SINCLAIR, Ph.D.,  
held at the offices of:

ROTHWELL, FIGG, ERNST & MANBECK, P.C.  
607 14th Street, NW  
Suite 800  
Washington, DC 20005  
(202) 783-6040

Pursuant to agreement, before Debra A. Whitehead,  
an Approved Reporter of the United States District  
Court and Notary Public of the District of Columbia.

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Videotaped Deposition of Robert Sinclair, Ph.D.  
Conducted on January 18, 2016

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A P P E A R A N C E S

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ALSO PRESENT:

DEREK FOX, Video Specialist

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Videotaped Deposition of Robert Sinclair, Ph.D.  
Conducted on January 18, 2016

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1           Prior to your involvement in this matter,           09:57:48  
2           were you familiar with the methods of heat-treating       09:57:50  
3           an nickel-titanium endodontic file?                       09:57:59  
4           A    I would be familiar with methods of               09:58:01  
5           heat-treating nickel-titanium material.               09:58:03  
6           Q    And do you believe that methods of               09:58:05  
7           heat-treating a nickel-titanium material would be       09:58:07  
8           applicable to methods of heat-treating a               09:58:09  
9           nickel-titanium endodontic file?                       09:58:12  
10          A    In terms of the procedures of heat               09:58:20  
11          treatment, they could be the same.                    09:58:22  
12          Q    And how about the results of the heat             09:58:26  
13          treatment?    09:58:27  
14          A    I would -- hum.    So it's not necessarily --     09:58:31  
15          not necessarily so that if you had a nickel-titanium    09:58:42  
16          material, as opposed to nickel-titanium endodontic     09:58:50  
17          file which has been processed into that file, that       09:58:56  
18          the materials would behave in an identical fashion     09:59:03  
19          to heat treatment.                                        09:59:07  
20          Q    Do you think the teachings of methods and         09:59:09  
21          results from heat-treating a nickel-titanium alloy     09:59:12  
22          generally are informative regarding methods and        09:59:18

DI ANET DEDOS

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1 results to heat-treating a nickel-titanium 09:59:25  
2 endodontic file? 09:59:32

3 A I think that they are informative. But 09:59:35  
4 nickel titanium is a rather complicated material. 09:59:40  
5 And so its precise history and, as we've mentioned 09:59:47  
6 before, composition, are important to how it behaves 09:59:52  
7 and how it -- how it might alter under heat 09:59:59  
8 treatment conditions. 10:00:06

9 Q You have never heat treated a 10:00:08  
10 nickel-titanium endodontic file. Correct? 10:00:17

11 A An endodontic file I believe I have not heat 10:00:22  
12 treated. 10:00:25

13 Q Prior to your involvement in this case, you 10:00:26  
14 had never overseen any testing concerning the heat 10:00:28  
15 treatment of a nickel-titanium endodontic file. 10:00:31

16 Correct? 10:00:33

17 A I believe not. My -- a lot of my work was 10:00:35  
18 on the other forms of nickel-titanium material. 10:00:39

19 Q When you say "other forms of nickel-titanium 10:00:44  
20 material," what do you mean? 10:00:48

21 A So it could be wire. It could be sheet, 10:00:49  
22 thin sheet. 10:00:56

DI ANET DEDOS

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