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# Transcript of Dr. R. Jacob Baker

**Date:** December 20, 2024

**Case:** Vicor Corporation -v- Delta Electronics, Inc. (PTAB)

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WORLDWIDE COURT REPORTING & LITIGATION TECHNOLOGY

DELTA ELECTRONICS EX. 2006

Transcript of Dr. R. Jacob Baker  
Conducted on December 20, 2024

1 (1 to 4)

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| 1  | 1                                                     | 1  | 3                                 |
| 2  | UNITED STATES PATENT AND TRADEMARK OFFICE             | 2  | A P P E A R A N C E S             |
| 3  | BEFORE THE PATENT TRIAL AND APPEAL BOARD              | 3  | For the Plaintiff:                |
| 4  |                                                       | 4  | PERKINS COIE, LLP                 |
| 5  | VICOR CORPORATION, )                                  | 5  | BY: MIGUEL JOSE BOMBACH, ESQ.     |
| 6  | PETITIONER, ) PTAB CASE NO.                           | 6  | 11452 EL CAMINO REAL, SUITE 300   |
| 7  | VS. ) IPR2024-00705                                   | 7  | SAN DIEGO, CALIFORNIA 92130-2594  |
| 8  | DELTA ELECTRONICS, INC., ) U.S. PATENT NO.            | 8  | 858-720-5700                      |
| 9  | PATENT OWNER. ) 9,819,263                             | 9  | For the Defendant:                |
| 10 | ----- )                                               | 10 | FISH & RICHARDSON P.C.            |
| 11 |                                                       | 11 | BY: STEVEN KATZ, ESQ.             |
| 12 |                                                       | 12 | 60 SOUTH SIXTH STREET, SUITE 3200 |
| 13 |                                                       | 13 | MINNEAPOLIS, MINNESOTA 55402      |
| 14 | REMOTE VIDEOTAPED DEPOSITION                          | 14 | 202-783-5070                      |
| 15 | DR. R. JACOB BAKER                                    | 15 |                                   |
| 16 | FRIDAY, DECEMBER 20, 2024                             | 16 |                                   |
| 17 | LOS ANGELES, CALIFORNIA                               | 17 |                                   |
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| 24 | PAGES 1 - 79                                          | 24 |                                   |
| 25 | REPORTED BY MICHAEL CAGLIATA                          | 25 |                                   |
|    | CSR #14491, RPR                                       |    |                                   |
| 2  | 2                                                     | 4  | 4                                 |
| 1  | Videoconference Deposition of                         | 1  | INDEX                             |
| 2  | DR. R. JACOB BAKER held remotely:                     | 2  | WITNESS NAME PAGE                 |
| 3  |                                                       | 3  | DR. R. JACOB BAKER, SWORN         |
| 4  | Witness Location:                                     | 4  | EXAMINATION BY MR. BOMBACH 6      |
| 5  | (NOT STATED ON THE RECORD.)                           | 5  | EXAMINATION BY MR. KATZ 72        |
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| 9  |                                                       | 9  |                                   |
| 10 |                                                       | 10 |                                   |
| 11 | Pursuant to Notice, before Michael                    | 11 |                                   |
| 12 | Cagliata, Registered Professional Reporter, and       | 12 |                                   |
| 13 | Certified Shorthand Reporter No. 14491 in and for the | 13 |                                   |
| 14 | State of California.                                  | 14 |                                   |
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Transcript of Dr. R. Jacob Baker  
Conducted on December 20, 2024

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| <p>1 EXHIBIT INDEX</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7 (NO EXHIBITS WERE MARKED OR RECEIVED INTO EVIDENCE.)</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>5</p> <p>7</p> <p>1 with you?</p> <p>2 <b>A. No.</b></p> <p>3 Q. Okay. I'll upload these exhibits to the</p> <p>4 Zoom window for download, and you can download and</p> <p>5 view at your leisure. Uploading to the chat box is</p> <p>6 premarked Exhibit 1001, which is U.S. patent number</p> <p>7 9,819,263. Also uploading into the chat box is</p> <p>8 exhibit -- what has been premarked Exhibit 1003,</p> <p>9 which is entitled, "The declaration of R. Jacob</p> <p>10 Baker." Also uploaded into the chat box is what's</p> <p>11 been premarked as Exhibit 1005. This is U.S. patent</p> <p>12 number 10264664. Also uploading into the chat box is</p> <p>13 what has been premarked Exhibit 1008, which is U.S.</p> <p>14 publication 20090175014. Also uploading into the</p> <p>15 chat box is Exhibit 1009, which is U.S. publication</p> <p>16 20140355218.</p> <p>17 If you can please download those, have them</p> <p>18 open on your PDF viewer on your end. If you have any</p> <p>19 technical difficulties, let me know. I can do a</p> <p>20 share screen.</p> <p>21 <b>A. I'm downloading. Give me a few minutes.</b></p> <p>22 Q. Okay. I figure I would upload all the</p> <p>23 goods all at once, not to say that there aren't any</p> <p>24 secrets.</p> <p>25 <b>A. Okay. I have them.</b></p> |
| <p>6</p> <p>1 PROCEEDINGS</p> <p>2 * * * *</p> <p>3 (Oath given.)</p> <p>4 MR. BOMBACH: I guess, should we announce</p> <p>5 ourselves for the record? Miguel Bombach for patent</p> <p>6 owner Delta Electronics from Perkins Coie.</p> <p>7 MR. KATZ: And this is Steven Katz, with</p> <p>8 Fish &amp; Richardson, representing the petitioner of</p> <p>9 Vicor Corporation.</p> <p>10 EXAMINATION BY MR. BOMBACH</p> <p>11 Q. Good morning, Dr. Baker. Thank you for</p> <p>12 your time. I assume you've been deposed many times;</p> <p>13 is that correct?</p> <p>14 <b>A. Yes.</b></p> <p>15 Q. How many times have you been deposed?</p> <p>16 <b>A. This is my 109th time.</b></p> <p>17 Q. All right. I will not go over the ground</p> <p>18 rules, but at any time if you need me to clarify any</p> <p>19 question or you need a document, please ask me. Do</p> <p>20 you understand?</p> <p>21 <b>A. Yes.</b></p> <p>22 Q. And to get some housekeeping out of the</p> <p>23 way, I might as well just upload some of these</p> <p>24 exhibits that we're going to use. It's not going to</p> <p>25 be a shock to anybody. Do you have any printouts</p> | <p>8</p> <p>1 Q. All right. If you could please look at</p> <p>2 Exhibit 1001, which is the '263 patent. You, of</p> <p>3 course, reviewed this patent in preparing your</p> <p>4 declaration; correct?</p> <p>5 <b>A. Yes.</b></p> <p>6 Q. Okay. And if you could turn to</p> <p>7 Exhibit 1003, please. The star of the show. Is</p> <p>8 Exhibit 1003 your declaration?</p> <p>9 <b>A. Yes, this is my declaration in this matter.</b></p> <p>10 Q. Did you prepare all the words of this</p> <p>11 declaration?</p> <p>12 <b>A. I'm not exactly sure what you mean by,</b></p> <p>13 <b>"prepare the words".</b></p> <p>14 Q. Did you pen every single word of this</p> <p>15 declaration?</p> <p>16 <b>A. No.</b></p> <p>17 Q. Does the declaration constitute all your</p> <p>18 opinions in this matter? Let me re-ask that. Does</p> <p>19 the declaration accurately reflect your opinions in</p> <p>20 this matter?</p> <p>21 <b>A. Up until the point I wrote it. Yes.</b></p> <p>22 Q. Do you have any clarifications or mistakes</p> <p>23 that you would like to address?</p> <p>24 <b>A. I noticed that there were some typos where</b></p> <p>25 <b>I used Vinciarelli 664, and I meant Vinciarelli 218.</b></p>                                                                                                     |

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| <p style="text-align: right;">9</p> <p>1 Since I may say Vinciarelli quite often today, let me<br/>2 spell it for the court reporter.<br/>3 <b>V-I-N-C-I-A-R-E-L-L-I.</b><br/>4 Q. Other than typographical errors, is there<br/>5 anything substantive that you would like to correct<br/>6 or otherwise address?<br/>7 <b>A. There is nothing I would like to correct in</b><br/>8 <b>the declaration at this point.</b><br/>9 Q. Okay. If you could please turn to page 140<br/>10 of your declaration, which is the portion that is<br/>11 your CV?<br/>12 <b>A. Yes.</b><br/>13 Q. This accurately reflects your professional<br/>14 and educational experience; right?<br/>15 <b>A. I mean, it's certainly not complete. There</b><br/>16 <b>are things I've done that I just didn't list there.</b><br/>17 <b>I mean, for example, supervising senior design</b><br/>18 <b>projects. I mean, did I literally one hundred plus</b><br/>19 <b>senior design project supervisions and designs and</b><br/>20 <b>didn't list those there. There are companies that</b><br/>21 <b>I've done consulting with that has been minor that I</b><br/>22 <b>didn't bother listing as well but, I mean, in general</b><br/>23 <b>it's accurate. It's a good, high level overview.</b><br/>24 Q. Okay. Thank you. Rather than go through<br/>25 the particulars of that, let's just jump into some of</p>                  | <p style="text-align: right;">11</p> <p>1 Do you see that portion?<br/>2 <b>A. Yes, I see those words.</b><br/>3 Q. Does this encapsulate your construction for<br/>4 fabricated by mechanical support of the first<br/>5 electronic component?<br/>6 <b>A. I did -- I'm not exactly sure where we're</b><br/>7 <b>referring to, but I did an analysis using this</b><br/>8 <b>construction and another analysis using a different</b><br/>9 <b>construction elsewhere in my declaration.</b><br/>10 Q. Okay. And then, the terms that you<br/>11 provided, "is fabricated by curving a piece of metal<br/>12 against the first electronic component", does this<br/>13 convey structure of the device, in your opinion?<br/>14 <b>A. Are we talking about the term, "is</b><br/>15 <b>fabricated by mechanical support of the first</b><br/>16 <b>electronic component"?</b><br/>17 Q. Yeah. To be more particular, your<br/>18 construction, the connection part is fabricated by<br/>19 curving a piece of metal against the first electronic<br/>20 component. Does your construction that you provided<br/>21 convey structure of the device?<br/>22 <b>A. It conveys what the term means. It's being</b><br/>23 <b>fabricated by, for example, curving the metal against</b><br/>24 <b>the electronic component, but -- in the overall view,</b><br/>25 <b>you could say it conveys some structure, but it's not</b></p>                                                                                                        |
| <p style="text-align: right;">10</p> <p>1 the meat. If you could turn to paragraph 52. Go to<br/>2 paragraph 53. At any time, if you need to read, I<br/>3 understand that you may have written this a long time<br/>4 ago. If you need to read these specific paragraphs,<br/>5 please do so.<br/>6 Here in paragraph 52 you state that "your<br/>7 construction is fabricated by mechanical support of<br/>8 the first electronic component, means that the<br/>9 connection part is fabricated by curving a piece of<br/>10 metal against the first electronic component."<br/>11 Towards the end of paragraph 53.<br/>12 Do you see that portion?<br/>13 <b>A. I see the words in the middle of</b><br/>14 <b>paragraph 53 that say, "Curving the connection part</b><br/>15 <b>by mechanical support of the first electronic</b><br/>16 <b>component to fix the connection part at the first</b><br/>17 <b>electronic component, which is text quoted from the</b><br/>18 <b>'263 patent, column 10, lines 48 through 50."</b><br/>19 <b>Is that the text you were talking about?</b><br/>20 Q. No. I should have been more particular. I<br/>21 apologize. On the next page, paragraph 53 continues.<br/>22 It says, "Thus, the claimed term fabricated by<br/>23 mechanical support of the first electronic component<br/>24 is curving a piece of metal against the first<br/>25 electronic component."</p> | <p style="text-align: right;">12</p> <p>1 <b>a specific structure, if I'm making any sense. So</b><br/>2 <b>for example, if we look at the figure in the middle</b><br/>3 <b>of paragraph 53 and we look at, let's just pick one.</b><br/>4 <b>Let's pick the lower right. When that figure which</b><br/>5 <b>I've annotated connection parts in the '263, when</b><br/>6 <b>that connection part is stamped, it would be stamped</b><br/>7 <b>into the particular shape that has the three leads</b><br/>8 <b>coming out on each side.</b><br/>9 <b>In addition, it might have a stamp of a</b><br/>10 <b>crease so that when you bend the connection parts and</b><br/>11 <b>curve them around the electronic component, you get a</b><br/>12 <b>nice, straight edge. And then, the end result and</b><br/>13 <b>then another crease when you bend it again. And the</b><br/>14 <b>end result would be what's seen in what I've</b><br/>15 <b>annotated as, connection parts, after being</b><br/>16 <b>fabricated by curving against components.</b><br/>17 Q. Okay.<br/>18 <b>A. So from that point of view, there is a</b><br/>19 <b>structure which we can see in the figure, but it's</b><br/>20 <b>describing the process by which that product is</b><br/>21 <b>implemented.</b><br/>22 Q. If you could turn to paragraph 52. Here<br/>23 you say, "I am informed that when an apparatus claim<br/>24 contains a process limitation, the resulting product<br/>25 by process claim covers the product when" -- hold on.</p> |

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| <p>13</p> <p>1 Rather, the final sentence. Strike what I said. The<br/>2 final sentence.<br/>3 "I am thus informed that I can ignore the<br/>4 process limitation when evaluating patentability."<br/>5 Do you see that statement?<br/>6 <b>A. Yes.</b><br/>7 Q. Did you ignore the process limitation when<br/>8 evaluating patentability of the term, "is fabricated<br/>9 by mechanical support for the first electronic<br/>10 component", in the '263 patent?<br/>11 <b>A. I'm going to open up the '263 patent, which<br/>12 I guess I already have open. So as seen in my<br/>13 declaration, my analysis did consider if the prior<br/>14 art that I used did practice that claim. For<br/>15 example, starting on page 56 of my declaration, I did<br/>16 an evaluation of the last part of claim 1, which is<br/>17 where and wherein the first connection part is<br/>18 fabricated by mechanical support of the first<br/>19 electronic component, and I did analysis of whether<br/>20 the grounds, the prior art I used in the three<br/>21 grounds, met that claim element elsewhere in my<br/>22 declaration.</b><br/>23 Q. Okay. And for clarity, for the record, the<br/>24 Exhibit 1003 is double page stamped. Which page<br/>25 number would you be referring to?</p> | <p>15</p> <p>1 Did you perform an independent investigation on the<br/>2 accused products and their similarity to Vinciarelli<br/>3 664?<br/>4 <b>A. The extent of my analysis is what's seen in<br/>5 my declaration with the images that I looked at and<br/>6 compared to the patent images.</b><br/>7 Q. Okay. So to the extent of your<br/>8 investigation is -- let me start over. Is it<br/>9 accurate to say that the extent of your investigation<br/>10 is looking at the images on paragraph 54 and<br/>11 comparing them to Vinciarelli 664; is that correct?<br/>12 <b>A. Not exactly. I should be -- those are the<br/>13 ones I used. If I remember correctly, I looked at<br/>14 some infringement contentions and I think I might<br/>15 have cited those.</b><br/>16 Q. Okay.<br/>17 <b>A. If it's important, give me a second and<br/>18 I'll look at the documents I cited and see if it jogs<br/>19 my memory.</b><br/>20 Q. Okay.<br/>21 <b>A. Do you want me to do that?</b><br/>22 Q. Oh. If you need to, please do so. I mean,<br/>23 I could upload the -- just bear with me one second.<br/>24 Let me get that exhibit for you.<br/>25 <b>A. Yes, I think it's Exhibit 1011.</b></p>                                       |
| <p>14</p> <p>1 <b>A. The bigger numbers of the two.</b><br/>2 Q. Okay. So the larger?<br/>3 <b>A. Yes.</b><br/>4 Q. Okay. I would like to continue to<br/>5 subsection B.<br/>6 <b>A. I didn't hear the last subsection.</b><br/>7 Q. Oh. I apologize. I would like to continue<br/>8 to subsection B, which starts at paragraph 54 to 56<br/>9 of Exhibit 1003.<br/>10 <b>A. I'm there.</b><br/>11 Q. Okay. On paragraph 55 you start, "I am<br/>12 informed that the accused products are similar to the<br/>13 products described in Vinciarelli 664."<br/>14 Do you see that?<br/>15 <b>A. Yes.</b><br/>16 Q. Who informed you that the products<br/>17 described in Vinciarelli 664 and the accused products<br/>18 are similar?<br/>19 <b>A. Well, Delta's attorneys, but also I could<br/>20 see from the images that I looked at in the patent<br/>21 myself.</b><br/>22 Q. For clarity, did you mean Vicor's<br/>23 attorneys?<br/>24 <b>A. I'm sorry, yes. Vicor's attorneys.</b><br/>25 Q. Yeah. I don't remember telling you that.</p>                                                                                                                                                                                                                                         | <p>16</p> <p>1 Q. Yes. Bear with me for one second. I am<br/>2 uploading into the chat box what has been premarked<br/>3 Exhibit 1011.<br/>4 <b>A. I have it.</b><br/>5 Q. Okay. And you reviewed Exhibit 1011 in<br/>6 preparing your declaration; correct?<br/>7 <b>A. Yes.</b><br/>8 Q. Did you look at any materials beyond<br/>9 Exhibit 1011 to come to your conclusion that the<br/>10 accused products are similar to the products<br/>11 described in Vinciarelli 664?<br/>12 <b>A. Well, I indicate in paragraph 55 that I was<br/>13 informed that the accused products are similar, so<br/>14 based on that information and my review of the one<br/>15 chart of infringement contentions, and comparing that<br/>16 to Vinciarelli 664, that was what I based my opinions<br/>17 on.</b><br/>18 Q. Okay. Did you ever inspect any data sheets<br/>19 of Vicor products before preparing your declaration?<br/>20 <b>A. I know I looked at a design guide, an<br/>21 applications manual, and if I had looked at data<br/>22 sheets I don't recall, and I don't recall relying on<br/>23 them in my declaration. But if I did and I'm<br/>24 forgetting, point me to where I mention it and I'll<br/>25 see if it jogs my memory.</b></p> |

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| <p>17</p> <p>1 Q. I do not recall you mentioning this. Have<br/>2 you ever inspected a Vicor product, a physical<br/>3 product, before preparing your declaration?<br/>4 <b>A. I'm pretty sure I've ordered Vicor<br/>5 products. If you asked me when and where, I would<br/>6 have a challenge remembering, but with regard to this<br/>7 proceedings, I did not request any products. I<br/>8 didn't feel I needed them. If I did, I would have<br/>9 requested them.</b><br/>10 Q. Okay. And then, I guess just for clarity,<br/>11 the chart has the MBM2317S60D1580TOR Vicor product.<br/>12 Have you ever inspected that particular product?<br/>13 <b>A. When you say "inspected", I'm thinking what<br/>14 you mean is physically held in my hand. I mean --</b><br/>15 Q. Yes, sir.<br/>16 <b>A. Okay. I have not physically held one of<br/>17 these products in my hand.</b><br/>18 Q. Okay. Are there substantive differences<br/>19 between the accused products Vinciarelli 664 -- let<br/>20 me start over. Are there substantive differences<br/>21 with respect to the claims of the '263 patent between<br/>22 the accused products and Vinciarelli 664?<br/>23 MR. KATZ: Objection to form.<br/>24 THE WITNESS: I don't know. I didn't do<br/>25 that analysis.</p> | <p>19</p> <p>1 Q. So there may -- yeah. There may be<br/>2 substantive differences between Vinciarelli 664 and<br/>3 the accused products as they relate to the claims of<br/>4 the '263 patent; correct?<br/>5 <b>A. I don't know. I didn't look and do any<br/>6 kind of analysis of the accused products, and if they<br/>7 met specific claim language.</b><br/>8 Q. Okay. If we could turn to paragraph 56,<br/>9 please, which is still in that subsection B of your<br/>10 declaration. And then, the first sentence ends,<br/>11 "does not need to be a piece of metal that is curved<br/>12 against an electronic component."<br/>13 I guess, at least to me, that seems<br/>14 somewhat ambiguous. What does that mean to you?<br/>15 <b>A. If we look at the previous paragraph,<br/>16 paragraph 55, and we look at the way the connections<br/>17 are made on the accused products, let's go to page --<br/>18 and look at the two figures. Page 18. At the very<br/>19 top, you see the sides of the power supply have gold<br/>20 boxes on them. Those gold boxes are plated, metals<br/>21 plated on there. It's not part of a lead frame<br/>22 that's bent and formed around the product.<br/>23 And so my comments in paragraph 56 were<br/>24 simply saying that the patent owner's apparently<br/>25 saying that plated metal is the same as wrapping a</b></p> |
| <p>18</p> <p>1 Q. If you could turn to paragraph 45.<br/>2 <b>A. Okay.</b><br/>3 Q. Okay. Here you state, claims 1 through 6<br/>4 are anticipated by Vinciarelli 664. Do you see that?<br/>5 <b>A. Yes.</b><br/>6 Q. And that accurately reflects your opinion;<br/>7 correct?<br/>8 <b>A. Yes.</b><br/>9 Q. And it's your opinion that the accused<br/>10 products are similar to the products described in<br/>11 Vinciarelli 664; correct?<br/>12 <b>A. I don't know the extent of -- I didn't<br/>13 review the extent of what products are accused. What<br/>14 I reviewed is what I wrote in my declaration of<br/>15 specific products and how they are represented by<br/>16 what's patented in Vinciarelli 664.</b><br/>17 Q. Is it your opinion that the accused<br/>18 products, because they are similar to the products<br/>19 described in Vinciarelli 664, likewise meet the<br/>20 claims -- the claims 2 through 6 of the '263 patent?<br/>21 <b>A. I don't know. I didn't do that analysis.</b><br/>22 Q. So there may be substantive differences<br/>23 with respect to the claims of the '263 patent between<br/>24 the accused products and Vinciarelli 664; correct?<br/>25 <b>A. Would you mind repeating that question?</b></p>                                | <p>20</p> <p>1 <b>lead frame or a lead around the device. That's what<br/>2 I meant in that paragraph.</b><br/>3 Q. Okay. So your statement, the claimed term<br/>4 is fabricated by mechanical support of the first<br/>5 electronic component, under your understanding it's<br/>6 patent owner's interpretation that that can be<br/>7 satisfied via a device that has been plated as<br/>8 opposed to having curved conductors; is that correct?<br/>9 <b>A. I think what you said is correct. What my<br/>10 understanding is that, from the limited amount I read<br/>11 in the infringement contentions is, that piece of<br/>12 metal that's on the slide of the power slide that's<br/>13 been plated is not a curved metal as required by the<br/>14 patent, but patent owner says that that does, even<br/>15 though it's not a curved piece of metal, the plated<br/>16 metal still meets that claim limitation of the, is<br/>17 fabricated by a mechanical support of the first<br/>18 electronic component.</b><br/>19 Q. If you could please turn to page 25 of the<br/>20 PDF of Exhibit 1003. Do you see the top most portion<br/>21 of the metal which has the Vicor labelling on it?<br/>22 <b>A. Are you saying PDF page 25?</b><br/>23 Q. Yeah.<br/>24 <b>A. Sorry. Give me a second.</b><br/>25 Q. The one that has page 18 and 25 on it.</p>                 |

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| <p>21</p> <p>1 <b>A. Yes, I see that.</b></p> <p>2 Q. What is your understanding as to how the</p> <p>3 conductor 122 or, rather, the topmost metal is placed</p> <p>4 onto the device?</p> <p>5 <b>A. So I'm not sure that that piece of metal</b></p> <p>6 <b>would be considered a carrier in such that it has</b></p> <p>7 <b>what the claim requires, where there's an upper</b></p> <p>8 <b>surface and a lower surface, because all I can see is</b></p> <p>9 <b>a piece of metal on top of the package. So I didn't</b></p> <p>10 <b>put a lot of thought into that piece of metal, but it</b></p> <p>11 <b>looks like just a piece of metal that's epoxied onto</b></p> <p>12 <b>the package.</b></p> <p>13 <b>I don't know if there's an upper surface or</b></p> <p>14 <b>lower surface. It could just go beyond the top or</b></p> <p>15 <b>wrap around the side. I don't know specifically what</b></p> <p>16 <b>that piece of metal is doing.</b></p> <p>17 Q. And for clarity, you're referring to both</p> <p>18 the -- both figures on page 18 which is also labelled</p> <p>19 25, after Exhibit 1003; correct?</p> <p>20 <b>A. I'm going to open Vinciarelli 664 and look</b></p> <p>21 <b>at what the description is for 122.</b></p> <p>22 Q. Okay.</p> <p>23 <b>A. What was the question again?</b></p> <p>24 Q. You had provided an answer with respect to</p> <p>25 the figures of pages 18-25 of Exhibit 1003, and I had</p> | <p>23</p> <p>1 <b>It could be a group of electrical components,</b></p> <p>2 <b>conductors, transistors, capacitors, or it could be a</b></p> <p>3 <b>complete power supply.</b></p> <p>4 Q. In Vinciarelli 664, how would the</p> <p>5 electronic component which you stated would be under</p> <p>6 conductor 122 be connected to conductor 122?</p> <p>7 <b>A. So if we look at Figure 10 of Vinciarelli</b></p> <p>8 <b>664, you can see the connections to the printed</b></p> <p>9 <b>circuit board are labelled, for example, 812 and</b></p> <p>10 <b>there are various ways, and Vinciarelli discusses for</b></p> <p>11 <b>connecting to the printed circuit board via those</b></p> <p>12 <b>connections.</b></p> <p>13 Q. With respect to the plated inductor 122,</p> <p>14 would it be physically attached to, as depicted --</p> <p>15 let me start over. With respect to the plated</p> <p>16 conductor 122 of Vinciarelli, if it were to be</p> <p>17 applied to Figure 10, would that plated conductor</p> <p>18 make physical attachment with the electronic</p> <p>19 component 815C of Figure 10?</p> <p>20 <b>A. I mean, it depends on the circuit. If 122</b></p> <p>21 <b>should be connected to 815, but assuming it should</b></p> <p>22 <b>be, it could make a connection depending on the</b></p> <p>23 <b>package that's used. There's different adaptors that</b></p> <p>24 <b>are discussed in Vinciarelli 664 on how you place the</b></p> <p>25 <b>power supply. Now, whether it would be directly</b></p> |
| <p>22</p> <p>1 asked for clarity whether your answer applied to both</p> <p>2 figures, or if you were just speaking with respect to</p> <p>3 the product?</p> <p>4 <b>A. I believe, if I'm understanding the</b></p> <p>5 <b>question, 122 in the Vinciarelli 664 patent is</b></p> <p>6 <b>plated, as it appears in the products, and I point to</b></p> <p>7 <b>in Vinciarelli 664, column 7, roughly around lines 23</b></p> <p>8 <b>it says that that's plated. Now, I don't know for</b></p> <p>9 <b>sure that it's plated, but that's what it says it is.</b></p> <p>10 Q. Okay. So in regards to the plated</p> <p>11 conductor 122, the Vinciarelli 664 and the plated</p> <p>12 conductor as a product appear to be similar in your</p> <p>13 opinion; correct?</p> <p>14 <b>A. The packages appear to be similar, yes.</b></p> <p>15 Q. On the same page, page 18, also labelled 25</p> <p>16 of Exhibit 1003, your understanding is that there is</p> <p>17 an electronic component under the plated conductor of</p> <p>18 122; is that correct?</p> <p>19 <b>A. Yes, underneath 122 is a power supply.</b></p> <p>20 Q. And by "power supply", what specific</p> <p>21 component or components are you referring to?</p> <p>22 Rather, let me strike that. When you say "power</p> <p>23 supply", are you referring to the whole unit or an</p> <p>24 inductor?</p> <p>25 <b>A. Well, the component could be an inductor.</b></p>        | <p>24</p> <p>1 <b>connected or coupled, assuming it needs to be, it</b></p> <p>2 <b>would just be dependent on what package they used.</b></p> <p>3 Q. Does Vinciarelli 664 describe -- let me</p> <p>4 start over. Does Vinciarelli 664 state that the</p> <p>5 electronic component of 815 of Figure 10 would make</p> <p>6 physical attachment to a plated conductor such as the</p> <p>7 one described in Figure 1, component 122-2?</p> <p>8 <b>A. So I think my previous answer, I should</b></p> <p>9 <b>have checked the numbers. When I said 815, I was</b></p> <p>10 <b>thinking of the connections coming out of the board</b></p> <p>11 <b>which are labelled 811 and 812. 815 is the actual</b></p> <p>12 <b>overall singulated module. Would you mind re-asking</b></p> <p>13 <b>the question?</b></p> <p>14 Q. Yes. There's a lot of numbers on this.</p> <p>15 Let me re-ask that. In Vinciarelli 664, does it</p> <p>16 describe providing physical attachment between</p> <p>17 component 815C and a plated conductor such as the one</p> <p>18 described in Figure 1, which is labelled 122-2?</p> <p>19 <b>A. So you're talking about 815C and 815 D are</b></p> <p>20 <b>the D magnetic core surfaces that are exposed, and</b></p> <p>21 <b>then the other one you were mentioning was 122 C.</b></p> <p>22 Q. Yes. 815C and 122-2.</p> <p>23 <b>A. 122-2. And you're saying attached or</b></p> <p>24 <b>coupled?</b></p> <p>25 Q. Physically attached. Physically coupled.</p>                                      |

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| <p>25</p> <p>1 A. Well, they're different. Coupling --<br/>2 entire circuits, every component is coupled to the<br/>3 other component through the -- it's circuital, that's<br/>4 the definition of circuit. So certainly any<br/>5 component in the circuit is coupled to any other<br/>6 component in the circuit. I mean, that's how<br/>7 circuits work. Now, if you're talking about<br/>8 physically attached and you're talking about<br/>9 Figure 1?</p> <p>10 Q. Yes. I'll clarify the question based on<br/>11 what you said. With reference to Figure 10 of<br/>12 Vinciarelli 664, does Vinciarelli 664 describe any<br/>13 physical attachments between the surface of the<br/>14 component labelled 815C, the upper surface of that,<br/>15 and any plated conductor such as the one described in<br/>16 Figure 1, labelled 122-2?</p> <p>17 A. So I talk about this in my report if, I<br/>18 think -- now, we're on Figure 1 and I know more what<br/>19 we're talking about. In paragraph 100. Do you want<br/>20 me to go there?</p> <p>21 Q. Yes, please.</p> <p>22 A. So if you look at that figure, portions at<br/>23 the top and bottom surfaces of that module 100 which<br/>24 is in Figure 1 include areas covering the magnetic<br/>25 cores. Then, going back to Figure 10, it's similar</p> | <p>27</p> <p>1 surface of component 815C may have coating; correct?</p> <p>2 A. Magnetic core surface 815C may have a<br/>3 coating on it. Yes.</p> <p>4 Q. Would the coating that may be on the<br/>5 surface, top surface, of 815C make direct physical<br/>6 contact with a plated conductor such as the one<br/>7 described by 122-2 of Figure 1?</p> <p>8 A. What's causing me pause is what you're<br/>9 suggesting is shorting a metal to the core of the --<br/>10 core of the transformer, and it doesn't make sense.<br/>11 So I'm having a hard time answering if that's<br/>12 possible. If that's the way it's designed, it's<br/>13 possible but, I mean, putting a metal directly on an<br/>14 iron core, for example, that's problematic.</p> <p>15 Q. Okay. I believe you stated that there<br/>16 could be an insulated coating atop the top surface of<br/>17 815C; correct?</p> <p>18 A. Yes.</p> <p>19 Q. In any other instance, would the top<br/>20 surface of 815C with its coatings or no coatings make<br/>21 direct physical contact with the plated -- with a<br/>22 plated conductor such as the one described by 122-2<br/>23 of Figure 1?</p> <p>24 A. I mean, it could if that's what it's<br/>25 designed to do. I mean, you would go out and make</p>                                               |
| <p>26</p> <p>1 to 815C in Figure 10, and they can be coated with an<br/>2 electronically and thermally conductive material to<br/>3 provide electromagnetic shielding. I'm just looking<br/>4 at paragraph 100.</p> <p>5 Q. Does Vinciarelli 664 describe that the<br/>6 coating onto 815C would make physical -- let me start<br/>7 over. Does Vinciarelli 664 state that the coatings<br/>8 applied to 815C, would they cause there to be<br/>9 physical contact between the upper surface of 815C<br/>10 and the conductor 122-2 of Figure 1?</p> <p>11 A. It says it could be coated with an<br/>12 electronically conducted material. It doesn't say it<br/>13 has to be.</p> <p>14 Q. But does it state that the conductive<br/>15 material would cause a physical contact with the<br/>16 plated conductor 122-2 and any electronic -- the top<br/>17 surface of any electronic component such as the one<br/>18 815C of Figure 10?</p> <p>19 A. I'm not following the question. Can you<br/>20 break it down for me in simpler terms?</p> <p>21 Q. Yes, of course. I will try. Of course. I<br/>22 will do my best. Let's refer to Vinciarelli<br/>23 Figure 10, please.</p> <p>24 A. All right. I'm there.</p> <p>25 Q. It is your understanding that the top</p>                                               | <p>28</p> <p>1 the connection through the bar code, what the patent<br/>2 calls the 811, 812 in Figure 10. If you designed it<br/>3 to make that connection, then it would be connected.<br/>4 If you designed it not to be connected, then it<br/>5 wouldn't.</p> <p>6 Q. To be specific, I'm describing a direct<br/>7 physical contact between the top surface of 815C and<br/>8 the metal plating 122-2 of Figure 1, and not an<br/>9 electrical coupling. It could be electrically<br/>10 coupled, but I'm referring to the direct physical<br/>11 contact?</p> <p>12 A. Again, there's problems with doing that<br/>13 because you're shorting that 815C to the 122-2. If<br/>14 you wanted to do that, you could, but there would<br/>15 just be problems with it.</p> <p>16 Q. Could you do that by applying an insulated<br/>17 coating on top of 815C?</p> <p>18 A. I mean, if that's what you want to do.</p> <p>19 Q. Does Vinciarelli 664 describe doing that?</p> <p>20 A. At a high level, Vinciarelli 664 discusses<br/>21 when the power slicer fabricated that the magnetic<br/>22 cores are open and exposed, they can be molded, and<br/>23 then thermal conductive metal can be placed over the<br/>24 cores for shielding or to aid in heat sinking. I<br/>25 think that's shown in Figure 5. It's shown in</p> |

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| <p>29</p> <p>1 <b>Figure 5 before and after the power slicers have been</b><br/>2 <b>model he had and before they have been singulated.</b><br/>3 Q. I guess if you could turn to paragraph 57,<br/>4 please. You said, "I do not believe any remaining<br/>5 term requires the formal construction to resolve the<br/>6 issues I have discussed in this declaration."<br/>7 Do you see that?<br/>8 <b>A. Yes.</b><br/>9 Q. Did you have difficulty in understanding<br/>10 any terms of the '263 patent when you applied them to<br/>11 the prior art in your declaration?<br/>12 <b>A. I don't exactly know what applied to the</b><br/>13 <b>prior art means, but I didn't have a problem</b><br/>14 <b>understanding what the '263 patent was teaching and</b><br/>15 <b>what the terms meant.</b><br/>16 Q. Okay. If you could turn to paragraph 67,<br/>17 and if you ever need a break please let me know.<br/>18 <b>A. Okay.</b><br/>19 Q. Paragraph 67 describes generally the panel<br/>20 creation process of Vinciarelli 664; correct?<br/>21 <b>A. It describes part of the process, yes.</b><br/>22 Q. What is the purpose for creating power<br/>23 supplies as a panel?<br/>24 <b>A. They can be made more efficiently in bulk.</b><br/>25 Q. What's the benefit to making power supplies</p> | <p>31</p> <p>1 board, a dozen to maybe 100 if they're smaller<br/>2 boards. If you're talking about semiconductor<br/>3 fabrication, all semiconductor chips are fabricated<br/>4 on a wafer, which you could crew as a panel, and then<br/>5 they're singulated and diced up, and there could<br/>6 literally be thousands of chips on one wafer or<br/>7 panel.<br/>8 Q. In your experience for the device types of<br/>9 Vinciarelli 664, how many devices per panel would you<br/>10 expect to see?<br/>11 MR. KATZ: Objection to form.<br/>12 THE WITNESS: If I said a number, it would<br/>13 be a guess.<br/>14 Q. In your professional experience, you could<br/>15 not venture to state how many you would expect per<br/>16 panel from the teachings of Vinciarelli 664?<br/>17 <b>A. I don't see Vinciarelli 664 saying or</b><br/>18 <b>giving a number. It's such a subjective thing, that</b><br/>19 <b>I would need to know some specifics before I gave an</b><br/>20 <b>answer. I mean, Vinciarelli does say one or more</b><br/>21 <b>electronic modules could be in a panel, but I haven't</b><br/>22 <b>opined on the number in a panel, and I would need to</b><br/>23 <b>know very specifics before I could give an answer</b><br/>24 <b>that I thought would be useful.</b><br/>25 Q. So in preparing your declaration, you did</p> |
| <p>30</p> <p>1 in bulk?<br/>2 <b>A. Maybe lower cost.</b><br/>3 Q. And in Vinciarelli 664 -- actually, scratch<br/>4 that. Have you in industry ever been involved in<br/>5 creating panels of electronic components? Or rather<br/>6 -- strike that. Do you have exposure professionally<br/>7 or academically, in the creation of electronic<br/>8 components via panel?<br/>9 <b>A. Yes.</b><br/>10 Q. Have you overseen or been involved in any<br/>11 projects when this was done?<br/>12 <b>A. Yes.</b><br/>13 Q. How many projects?<br/>14 <b>A. Quite a few.</b><br/>15 Q. How many components are typically part of a<br/>16 panel?<br/>17 <b>A. It depends on the size of what's being</b><br/>18 <b>fabricated.</b><br/>19 Q. In your experience on the lowest end of<br/>20 components per panel that you have dealt with, how<br/>21 many were there?<br/>22 MR. KATZ: Objection.<br/>23 THE WITNESS: Well, if it's, like, a<br/>24 printed circuit board, they're all fabricated in<br/>25 panels. So it could be, depending on the size of the</p>                                                                                                                                                                                                                                             | <p>32</p> <p>1 not consider how many components there would be per<br/>2 panel?<br/>3 <b>A. I don't recall opining on how many modules</b><br/>4 <b>would be in a panel on Vinciarelli 664. I didn't</b><br/>5 <b>think and I don't think it's relevant when I did my</b><br/>6 <b>analysis.</b><br/>7 Q. We've been going for a little over an hour.<br/>8 Would you like a quick break?<br/>9 <b>A. Sure.</b><br/>10 (Recess taken.)<br/>11 Q. If you could please turn to paragraph 81 of<br/>12 your declaration. Rather, just to point yourself to<br/>13 a location of it, on paragraph 65 you're describing<br/>14 Vinciarelli with respect to claims 1 through 6, and<br/>15 then paragraph 81 is within that section. In<br/>16 paragraph 81 you reference Vinciarelli 844, 269, and<br/>17 747. Do you see that?<br/>18 <b>A. Yes. Vinciarelli 664 incorporates</b><br/>19 <b>Vinciarelli 844, Vinciarelli 269, and Vinciarelli</b><br/>20 <b>747.</b><br/>21 Q. In your opinion, do those documents,<br/>22 Vinciarelli 844, 269, and 747 describe the same exact<br/>23 embodiment as Vinciarelli 664's Figure 1?<br/>24 <b>A. I understand what you're asking. You're</b><br/>25 <b>asking are the claims the same, because the</b></p>                                                                                                       |

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| <p style="text-align: right;">33</p> <p><b>1 embodiment, I'm assuming you're talking about a</b><br/><b>2 claimed embodiment. From memory, I don't believe the</b><br/><b>3 claims are the same.</b><br/>4 Q. Okay. Yeah. To clarify, Vinciarelli 664<br/>5 figure 1 describes a particular device -- depicts a<br/>6 particular device; right?<br/>7 MR. KATZ: Objection to form.<br/>8 THE WITNESS: I don't think claims can be<br/>9 limited to one particular device. I think there's<br/>10 embodiments which are examples to illustrate to a<br/>11 person of ordinary skill in the art so they<br/>12 understand what is being claimed, but I don't think<br/>13 it's correct to say there's only one -- what is<br/>14 claimed as one thing.<br/>15 Q. So your understanding is that Vinciarelli<br/>16 Figure 1 depicts an example or, rather, an embodiment<br/>17 of Vinciarelli 664; right?<br/><b>18 A. Figure 1 is an embodiment of Vinciarelli</b><br/><b>19 664, yes.</b><br/>20 Q. Are the embodiments described in<br/>21 Vinciarelli 844, Vinciarelli 269, and Vinciarelli 747<br/>22 the same as the embodiment described in Vinciarelli<br/>23 664?<br/><b>24 A. My understanding is that when a patent like</b><br/><b>25 Vinciarelli 664 incorporates other applications or</b></p>                                                                                                                                                                     | <p style="text-align: right;">35</p> <p><b>1 prior art.</b><br/>2 Q. Would it have envisioned based on the<br/>3 disclosures of Vinciarelli 664 itself, or with their<br/>4 -- or in addition to their understanding as a person<br/>5 of ordinary skill in the art?<br/><b>6 A. It would have envisioned that the power</b><br/><b>7 converter could be one of the typologies that's</b><br/><b>8 taught in the 664 or one of the incorporated patents,</b><br/><b>9 or some other well-known topology.</b><br/>10 Q. If we could turn to paragraph 103, please.<br/><b>11 A. I'm there.</b><br/>12 Q. Actually, if you could take a few seconds<br/>13 to look through paragraph 103. Actually, to 106, to<br/>14 acquaint yourself with what you stated. Because I<br/>15 understand it was a long time ago.<br/><b>16 A. Okay.</b><br/>17 Q. On paragraph 103 you state, "The figure<br/>18 clearly shows that the carrier is within the claim<br/>19 range."<br/>20 Can you please state your basis for why you<br/>21 state that this is clear?<br/><b>22 A. I can see it in the following figure that</b><br/><b>23 the carrier is within the one third to two thirds</b><br/><b>24 height of the overall power converter. I split up</b><br/><b>25 the -- I annotated the top and bottom of the carrier</b></p>                                                                                                                                                                   |
| <p style="text-align: right;">34</p> <p><b>1 patents, it's literally like those other patents are</b><br/><b>2 within the patent that's incorporating them. And so</b><br/><b>3 I would need to go back and look and see if they have</b><br/><b>4 the same exact embodiments in those patents. I would</b><br/><b>5 say that Vinciarelli 664 has all of the embodiments</b><br/><b>6 of 844, 269, and 747, simply because it's -- they're</b><br/><b>7 incorporated in 664.</b><br/>8 Q. If you could turn to paragraph 84. Here<br/>9 you say, "A skilled artisan would have understood or<br/>10 at the very least would have at once envisaged", and<br/>11 then it continues on. Do you see that statement?<br/><b>12 A. Yes.</b><br/>13 Q. Is this your opinion? Rather, did you<br/>14 write, "would have once envisaged"?<br/><b>15 A. No, that's some legal language that was</b><br/><b>16 explained to me that I incorporated into my opinions.</b><br/>17 Q. Okay. To your understanding, what does,<br/>18 "would have once envisaged" mean?<br/><b>19 A. What it says. Literally, what it says.</b><br/>20 Q. But what does that mean?<br/><b>21 A. That means a skilled artisan, a person</b><br/><b>22 having ordinary skill in the art, would have</b><br/><b>23 envisioned that the -- what it says there. That the</b><br/><b>24 power converter could have one or more internal</b><br/><b>25 structures of various topologies as discussed in the</b></p> | <p style="text-align: right;">36</p> <p><b>1 with the lines that are nearly horizontal, and then</b><br/><b>2 looked at the overall height of the module, and see</b><br/><b>3 that it's within one third to two thirds. I note</b><br/><b>4 that I'm not saying that the carrier is -- resides</b><br/><b>5 entirely within one third to two thirds, because</b><br/><b>6 that's not what's claimed. What's claimed is that</b><br/><b>7 the carrier's disposed in the one thirds to two</b><br/><b>8 thirds of the height of the power converter.</b><br/>9 Q. So is it your understanding that the claim<br/>10 limitation 1F requires only that a portion of the<br/>11 carrier be within the one -- the middle third of the<br/>12 height of the power converter?<br/><b>13 A. I don't think it says one way or another.</b><br/><b>14 If it is within -- entirely within one third to two</b><br/><b>15 thirds, which it is here in this figure, then the</b><br/><b>16 element is met.</b><br/>17 Q. Okay. Yeah, I guess I'll slow it down.<br/>18 I'll get to that. To your understanding of<br/>19 limitation 1F, it encompasses those situations where<br/>20 the carrier is entirely disposed within the middle<br/>21 third, but also where only a portion of the carrier<br/>22 exists in the middle third; is that correct?<br/><b>23 A. I think so, yes.</b><br/>24 Q. In your understanding -- let me use an<br/>25 example. If the carrier encompassed 80 percent of</p> |

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| <p>37</p> <p>1 the device, whereas the top ten percent in the bottom<br/>2 ten percent were other components, that carrier would<br/>3 satisfy 1F; correct?</p> <p>4 <b>A. I would need to know the specific example,<br/>5 but I think in general yes, as long as that carrier's<br/>6 disposed in the middle of the device, the one third<br/>7 to two thirds.</b></p> <p>8 Q. Okay. In your opinion, is the device<br/>9 depicted in Figure 1, does it describe the carrier<br/>10 being entirely within the middle third of the device?</p> <p>11 <b>A. It looks like it, but as I mentioned in<br/>12 paragraph 103, I was informed that often patent<br/>13 drawings aren't drawn to scale. But I think the take<br/>14 away there is that you want the carrier in the middle<br/>15 of the part.</b></p> <p>16 Q. But looking at Figure 1, is the carrier<br/>17 disposed -- rather, looking at Figure 1, is the<br/>18 carrier within the middle third -- is it entirely<br/>19 within the middle third of the device?</p> <p>20 <b>A. Again, it looks like it is but I'm not<br/>21 sure. But again, I don't think you can rely on the<br/>22 dimensions of the figures because sometimes things<br/>23 will be drawn larger to emphasize them to get a point<br/>24 across. If you look at Figure 10, for example, in<br/>25 that case it very much looks like, which is another</b></p> | <p>39</p> <p>1 <b>Zeng is wrapping the conductors around the component.</b></p> <p>2 <b>As I mentioned earlier -- well, before I say that,<br/>3 some of the things like stamping the metal so that's<br/>4 it's in the correct shape, or stamping a crease in<br/>5 the metal so that when you do the bend it's straight<br/>6 and doesn't bow, those kind of things would be<br/>7 understood to a person of ordinary skill in the art.<br/>8 But the take away is what Zeng is teaching at a high<br/>9 level is just forming the metal or bending or curving<br/>10 the metal around the surface of the component, much<br/>11 as the way it's claimed in the '263.</b></p> <p>12 Q. At the time of the filing of the '263<br/>13 patent, do you consider yourself a person of ordinary<br/>14 skill of the art, or at least qualify as a person of<br/>15 ordinary skill in the art?</p> <p>16 <b>A. Yes, I would consider myself to be beyond<br/>17 that, to be frank.</b></p> <p>18 Q. Fair enough. Have you used stamping<br/>19 machines?</p> <p>20 <b>A. I've used them, but not for electronic<br/>21 components. When we did manufacturing and I was<br/>22 involved with it, there was a technician that ran the<br/>23 stamping machine.</b></p> <p>24 Q. But what does a stamping machine do?</p> <p>25 <b>A. In the context of electrical packaging, it</b></p>    |
| <p>38</p> <p>1 <b>representation of a power converter, it very much<br/>2 looks like the board or the carrier is in the middle<br/>3 of the power converter within the two thirds to one<br/>4 third range.</b></p> <p>5 Q. Did you apply the lines -- the red lines on<br/>6 Figure 1 and Figure 11 on paragraph 103?</p> <p>7 <b>A. I don't believe I did, but I don't<br/>8 remember.</b></p> <p>9 Q. Okay. Did you provide any quantitative<br/>10 measurements as to where the carrier was in Figure 1<br/>11 and Figure 11?</p> <p>12 <b>A. The extent of my analysis is in my<br/>13 declaration.</b></p> <p>14 Q. Okay. If we could turn to -- let's see.<br/>15 We'll jump to another section of your declaration.<br/>16 Let me see. Paragraph 134. This describes the Zeng<br/>17 014 reference, which is Exhibit 1008.</p> <p>18 <b>A. I'm there.</b></p> <p>19 Q. Can you briefly describe how the Zeng 014<br/>20 curving process works? I'll ask that again to use<br/>21 the terms of the declaration. Can you please<br/>22 describe how the Zeng 014's conductor wrapping<br/>23 process works?</p> <p>24 <b>A. I discuss this in paragraph 134 in my<br/>25 overview in the following paragraphs and figures.</b></p>                                                                                                                                                           | <p>40</p> <p>1 <b>takes a piece of metal and will stamp it into a shape<br/>2 or maybe an emblem or, you know, creases for bending<br/>3 so you get nice, straight bends, so that you can<br/>4 place the components -- and that's another example of<br/>5 where panels are used because of the components, the<br/>6 pieces of metal when you stamp them, are generally in<br/>7 sheets, and so you will have a sheet that's stamped.<br/>8 And then, you'll place the components on the stamp in<br/>9 one instance, and then ultimately encapsulate the<br/>10 device and then singulate the device and maybe bend<br/>11 leads or, depending on what the product is, what kind<br/>12 of package it has, do other things.</b></p> <p>13 Q. And the bending of leads over the package<br/>14 in Zeng 014 is done after -- would be done after<br/>15 singulation; is that right?</p> <p>16 <b>A. Yes. The bending of leads is done after<br/>17 singulation.</b></p> <p>18 Q. Is lead bending done by the same machine<br/>19 that performs singulation?</p> <p>20 <b>A. Not that I -- I haven't seen a machine that<br/>21 does both.</b></p> <p>22 Q. And then in paragraph 147, you describe, as<br/>23 I understand it, bending contacts against the<br/>24 Vinciarelli 664 component. Actually, rather than me<br/>25 just stating that, would you mind just -- it's a</p> |

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| <p>41</p> <p>1 couple of paragraphs. Just read it to reacquaint<br/>2 yourself, please.</p> <p>3 <b>A. Okay.</b></p> <p>4 Q. My understanding of paragraphs 147 to 149<br/>5 is that you proposed that a combination where Zeng<br/>6 014's conductors wrapped the module of Vinciarelli<br/>7 664; is that correct?</p> <p>8 <b>A. Basically, yes.</b></p> <p>9 Q. In your opinion, where would the Zeng 014<br/>10 conductor be electrically coupled to the Vinciarelli<br/>11 664 exposed core?</p> <p>12 <b>A. Through the barcode, they call it.</b></p> <p>13 Q. Okay. In your opinion, would the Zeng 014<br/>14 conductor be physically attached to the top surface<br/>15 of the Vinciarelli 664 exposed core?</p> <p>16 <b>A. So if we could go to the last sentence of<br/>17 paragraph 148. Let me just make sure my testimony is<br/>18 clear and my earlier testimony is clear. There's an<br/>19 encapsulant even though the core is exposed. It's<br/>20 ultimately encapsulated and then wrapped with the<br/>21 metal as taught in Zeng. So to the extent that<br/>22 there's -- it's attached to the core through the<br/>23 encapsulant. It's not -- there's not a direct short.<br/>24 I guess, hopefully that makes sense. I want to make<br/>25 sure my earlier testimony is also clear on that.</b></p>                                                                   | <p>43</p> <p>1 surface of an exposed core such as the one labelled<br/>2 815C of Figure 10? Whether it be directly onto the<br/>3 core or a physical attachment to any coating on top<br/>4 of that surface of 815C.</p> <p>5 <b>A. There's a coating, or there's an<br/>6 encapsulant around in the module, and then the<br/>7 plating is done on top of the encapsulant. So look<br/>8 at column 7, line 13. I'll read it into the record.<br/>9 " Additionally, portions of the top and bottom<br/>10 surfaces of the module 100 optionally including areas<br/>11 covering the magnetic cores similar to 815C in<br/>12 Figure 10, may be coated with electrically thermal<br/>13 and thermally conductive materials such as copper to<br/>14 provide electromagnetic shielding. For example, for<br/>15 EMI reduction, improved heat distribution over the<br/>16 large surface areas of the module, provided by<br/>17 thermal planes, improve thermal coupling to the<br/>18 module."</b></p> <p>19 So what's being taught there is that there<br/>20 -- the plating is connected to the core through an<br/>21 adhesive we'll just say is the encapsulant material.<br/>22 It's not being plated directly on. There would need<br/>23 to be some adhesion there.</p> <p>24 Q. Okay. So your understanding is that there<br/>25 would be an adhesion to the top surface of the</p> |
| <p>42</p> <p>1 <b>It's not -- I mean, it is attached, but there's a<br/>2 material to attach it, which is the encapsulant.</b></p> <p>3 Q. Okay. And then, I guess, just to -- so we<br/>4 can clarify, because you referenced before -- if we<br/>5 could turn to Exhibit 1005 again, which is<br/>6 Vinciarelli 664, and Figure 10 of Exhibit 1005. In<br/>7 Figure 10, it is your understanding that -- rather,<br/>8 in Figure 10, is it your understanding that the<br/>9 surface of 815C would have a coating to prevent<br/>10 shorts?</p> <p>11 <b>A. An encapsulant and then covering it would<br/>12 be a thermally or conductive -- I mean, it doesn't<br/>13 have to, but that would be one way of doing it. Now,<br/>14 there may be the desire to have it shorted simply to<br/>15 have better heat removal, but in general, there would<br/>16 be the adaptor, or adaptor plugs, and then it would<br/>17 go over the top with the plated metal as discussed in<br/>18 the patent.</b></p> <p>19 Q. And you're referring to the plated metal of<br/>20 Figure 1, which is 122-2; is that correct?</p> <p>21 <b>A. For the top part, yes. There's other<br/>22 plated metal: 121, 120, 123, et cetera.</b></p> <p>23 Q. In your understanding in reviewing<br/>24 Vinciarelli 664, would the plated metal, Figure 1,<br/>25 which is 122-2, make physical attachment to the top</p> | <p>44</p> <p>1 exposed core, which is depicted in -- as 815C of<br/>2 Figure 10 and any plating such as the one described<br/>3 in Figure 122-2?</p> <p>4 <b>A. The end package is encapsulated, and then<br/>5 the encapsulation is plated. I'm not understanding<br/>6 -- if you look at the figures, you have exposed areas<br/>7 like, for example, the barcode, and then you have to<br/>8 put something over that to use the power converter,<br/>9 and the 664 teaches various adaptors that you can use<br/>10 to use the power converter, depending on what you<br/>11 want to do.</b></p> <p>12 Q. I guess, let me -- in Figure 10, you have<br/>13 the encapsulant 815A and Vicor 815C. Do you see<br/>14 that?</p> <p>15 <b>A. Those are areas, 815A and 815 B, that are<br/>16 defined by the cured encapsulant 805 and 806.</b></p> <p>17 Q. So is it your understanding that the top<br/>18 surface of the device is of uniform height throughout<br/>19 the portion 815A and 815C?</p> <p>20 <b>A. Unless you have the opening for the<br/>21 magnetic core but, yes. Those areas are uniform<br/>22 height.</b></p> <p>23 Q. And in the case that there is an exposed<br/>24 magnetic core, would the portion of the exposed<br/>25 magnetic core be higher or lower than the surface of</p>                                                                             |

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| <p>45</p> <p>1 the encapsulant 815A?</p> <p>2 <b>A. I mean, you're asking for absolute answers.</b></p> <p>3 <b>It's just giving examples. In general, it could be</b></p> <p>4 <b>lower.</b></p> <p>5 Q. Okay. I guess put in another way, your</p> <p>6 understanding in Vinciarelli 664 is that it could be</p> <p>7 higher, it could be lower, it could be the same; is</p> <p>8 that correct?</p> <p>9 <b>A. I don't think that it teaches -- it shows</b></p> <p>10 <b>that they're the same, but I don't recall it teaching</b></p> <p>11 <b>this specific relative heights of those 815 layers.</b></p> <p>12 Q. Okay. If we could jump ahead a little.</p> <p>13 Paragraph 168, please, of Exhibit 1003.</p> <p>14 <b>A. I'm there.</b></p> <p>15 Q. This is in reference to the other</p> <p>16 Vinciarelli 218. Here, you say, "Vinciarelli 218</p> <p>17 does not have surface mount conductors."</p> <p>18 Do you see that statement?</p> <p>19 MR. KATZ: Objection to form.</p> <p>20 Q. Towards the middle end.</p> <p>21 <b>A. I see those words, yes.</b></p> <p>22 Q. Do you believe it's an accurate statement</p> <p>23 that Vinciarelli 218 does not have surface mount</p> <p>24 conductors?</p> <p>25 <b>A. I think I could say it does not have only</b></p>                                                                                                                          | <p>47</p> <p>1 device?</p> <p>2 <b>A. It depicts a surface mount device or module</b></p> <p>3 <b>so the power converter modules for surface mounting</b></p> <p>4 <b>when using those particular adaptors.</b></p> <p>5 Q. In the next paragraph, you state that it's</p> <p>6 a simple mechanical modification. Do you see that?</p> <p>7 <b>A. I see those words in paragraph 169. Yes.</b></p> <p>8 Q. How do you contend that a POSITA would have</p> <p>9 attached the conductor of Zeng 014 to the Vinciarelli</p> <p>10 218 PCB barcodes?</p> <p>11 I'll ask it again, since I don't remember</p> <p>12 what I said. How do you contend that the conductor</p> <p>13 of Zeng 014 would be coupled to the Vinciarelli 218</p> <p>14 PCB barcodes?</p> <p>15 <b>A. If the power converter is placed on the</b></p> <p>16 <b>carrier and the frame in Zeng is bent around the --</b></p> <p>17 <b>bent around the power converter using, you know,</b></p> <p>18 <b>techniques I discussed earlier to make a connection</b></p> <p>19 <b>to the barcode on the side of the power converter.</b></p> <p>20 Q. Specifically, what techniques do you</p> <p>21 contend that a POSITA would have applied to attach</p> <p>22 the Zeng 014 conductor to the Vinciarelli 218 PCB</p> <p>23 barcode?</p> <p>24 <b>A. The techniques taught in Zeng where the</b></p> <p>25 <b>lead frame or the carrier, if you will, is stamped,</b></p>                                                                                                                                             |
| <p>46</p> <p>1 <b>surface mount conductors. So there's leaded</b></p> <p>2 <b>conductors.</b></p> <p>3 Q. I guess to put further context, let's open</p> <p>4 Exhibit 1009 which I'll refer to as Vinciarelli 218,</p> <p>5 and Figure 17.</p> <p>6 <b>A. Okay.</b></p> <p>7 Q. In your opinion, does Vinciarelli 218,</p> <p>8 Figure 17, disclose a surface mount conductor?</p> <p>9 <b>A. I think we're confusing things. There's</b></p> <p>10 <b>surface mount components on board inside the power</b></p> <p>11 <b>converter, and then the different adaptors can be</b></p> <p>12 <b>used to adapt the power converter for surface</b></p> <p>13 <b>mounting.</b></p> <p>14 Q. So if I understand correctly, you're making</p> <p>15 a distinction between adaptor and surface mount</p> <p>16 conductor?</p> <p>17 <b>A. So in Figure 17, if you look at the 318,</b></p> <p>18 <b>those are, I think -- let me just verify. I think</b></p> <p>19 <b>that Vinciarelli calls them adaptors. Give me just a</b></p> <p>20 <b>sec. Yeah. Vinciarelli calls those 318 adaptors,</b></p> <p>21 <b>and there's various types of adaptors. That's</b></p> <p>22 <b>discussed, for example, in the abstract about how</b></p> <p>23 <b>signals are -- how the package can be -- not the</b></p> <p>24 <b>abstract. In paragraph 8, for example.</b></p> <p>25 Q. Does figure 17 depict a surface mount</p> | <p>48</p> <p>1 <b>and if it's going to be bent, oftentimes they'll</b></p> <p>2 <b>stamp in a crease so that the bend is straight. You</b></p> <p>3 <b>would put two creases in to wrap the carrier, the C</b></p> <p>4 <b>that goes around it to make the connection to the top</b></p> <p>5 <b>and bottom, and also to connect to the barcode.</b></p> <p>6 Q. The connection between barcode and Zeng 014</p> <p>7 conductor, you contend that a POSITA would have had</p> <p>8 that be a direct physical connection between the two?</p> <p>9 <b>A. If that's what they wanted, yes.</b></p> <p>10 Q. Do you contend that a POSITA would have</p> <p>11 used solder to connect the two?</p> <p>12 <b>A. You could use solder, you could use</b></p> <p>13 <b>adhesive. In some situations, it might get away</b></p> <p>14 <b>depending on what the structure of the barcode is,</b></p> <p>15 <b>what it's plated with with just a physical</b></p> <p>16 <b>connection. Because the C clamp or the carrier, if</b></p> <p>17 <b>you will, would be tight around the device and make a</b></p> <p>18 <b>physical contact.</b></p> <p>19 Q. In the case of adhesive, where would the</p> <p>20 adhesive be placed prior to stamping? Would it be</p> <p>21 placed on the conductor of Zeng 014, or would it be</p> <p>22 placed on the PCB bar codes of Vinciarelli 218?</p> <p>23 <b>A. I think you could do either one. It would</b></p> <p>24 <b>be a conductive adhesive. You would put it on the</b></p> <p>25 <b>barcode, and when you wrap the carrier around it</b></p> |

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| <p style="text-align: right;">49</p> <p>1 would be glued to the barcode, or you could put it on<br/>2 the carrier and wrap it around. I think that would<br/>3 just be up to the person that was implementing the<br/>4 process.<br/>5 Q. In the instance of solder, how would that<br/>6 process flow be achieved between Vinciarelli 218's<br/>7 bar codes and the stamping process of Zeng 014?<br/>8 A. One way is you could have a solder paste.<br/>9 You put the paste in, like you did the adhesive, and<br/>10 then you reflow it so that it solders the component<br/>11 or the wrap, the C clamp, around the power supply to<br/>12 hold it in place in the final product.<br/>13 Q. Would the reflow occur after stamping or<br/>14 before stamping?<br/>15 A. After stamping. You would stamp the metal<br/>16 into the correct shape, put your creases into the<br/>17 stamp so you know where the bends are straight, put<br/>18 the solder paste, for example, on the barcode of the<br/>19 power converter, wrap the C clamp around the power<br/>20 converter, heat it up so that the barcode is soldered<br/>21 to the C clamp.<br/>22 Q. Your understanding is that solder would be<br/>23 applied to PCB barcodes, and then -- Vinciarelli 218,<br/>24 and then the Zeng 014 conductor would be stamped, and<br/>25 then there would be reflow of the solder; is that</p>   | <p style="text-align: right;">51</p> <p>1 correct; right?<br/>2 A. In Figure 16, for example -- well, let's go<br/>3 with Figure 18, which is, I think, the one we were<br/>4 talking about earlier. In Figure 18, for example,<br/>5 the barcodes are 311, 312, and on the image there in<br/>6 Figure 18, yes.<br/>7 Q. Okay. And in the technique of solder --<br/>8 strike that. You say one technique for applying the<br/>9 Zeng 014 conductor to the Vinciarelli 218 barcodes is<br/>10 via solder prior to stamping; correct?<br/>11 A. No. With all of these, you have to stamp<br/>12 the -- well, as far as I know, you have to stamp the<br/>13 shape first before you put the component on top.<br/>14 Q. Then, if Zeng 014's conductor is stamped<br/>15 upon Vinciarelli's Figure 18 module 315, how would<br/>16 solder be applied to connect the Zeng 014 conductor<br/>17 to the PCB barcodes of Vinciarelli 218?<br/>18 MR. KATZ: Objection to form. Misstates<br/>19 his testimony.<br/>20 THE WITNESS: So you have a piece of metal.<br/>21 You stamp in the shape you want. You stamp in the<br/>22 creases. You stamp in any identifying numbers you<br/>23 may want in the metal. You take the power module,<br/>24 you place it on the stamped metal. Let's assume it's<br/>25 by itself so you didn't have to cut anything out at</p>                                                                                              |
| <p style="text-align: right;">50</p> <p>1 correct?<br/>2 MR. KATZ: Objection to form.<br/>3 THE WITNESS: That's one example. I gave<br/>4 others with adhesive, and I gave the example of a<br/>5 physical connection if, for example there's a<br/>6 protruding on the end of the barcode so that when you<br/>7 wrapped it around and made physical contacts in that<br/>8 case, there wouldn't be solder or adhesive. It would<br/>9 just be a physical contact that's tight enough, like<br/>10 putting battery cables in a car around a terminal on<br/>11 a battery. Where you're connecting you have it<br/>12 physically tight enough that you don't need solder or<br/>13 adhesive. It just is held in place by the mechanical<br/>14 force.<br/>15 Q. In the case of solder in particular, do you<br/>16 -- did you consider whether the solder being applied<br/>17 to Vinciarelli's PCB barcodes prior to stamping would<br/>18 cause difficulties or damage in the stamping process<br/>19 once Zeng 014 conductors were stamped?<br/>20 A. The solder is put on after the power module<br/>21 is mounted on the stamped carrier. So the stamping<br/>22 wouldn't have any bearing, or there would be no<br/>23 relationship between the stamping and the soldering.<br/>24 Q. Let's take a step back. Vinciarelli 218<br/>25 depicts PCB barcodes on its side; correct? That's</p> | <p style="text-align: right;">52</p> <p>1 any point. Put that power module on the stamped<br/>2 metal. Nothing's been bent. It's still flat.<br/>3 Then, you apply solder, if that's the route<br/>4 you're going to do, not adhesive or just a physical<br/>5 contact, you supply solder to, say, the barcode in<br/>6 Vinciarelli's 218. Then, you bend the leads up so<br/>7 they make physical contact with the solder paste.<br/>8 The carrier's get bent on it two times. Once to go<br/>9 up the side and once to go across the top. Then, you<br/>10 heat it up, solder the carrier to the barcode, and<br/>11 then you're done.<br/>12 Q. In your opinion, having the solder prior to<br/>13 bending would not cause any physical damage to the<br/>14 Vinciarelli 218 PCB barcodes; correct?<br/>15 A. I can't think of how it would cause damage,<br/>16 but the connection is -- I didn't opine on what we're<br/>17 talking about in my declaration because this is<br/>18 something -- the different techniques is something<br/>19 that a person of ordinary skill in the art would<br/>20 understand. I don't think Zeng really talks too much<br/>21 about it either. But making a connection between a<br/>22 wire, the carrier, the frame, the terminal, the<br/>23 barcode, or between two electronic components, that's<br/>24 routine work that is done when fabricating things.<br/>25 Q. Would there need to be a stand off or a</p> |

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| <p>53</p> <p>1 distance between the lateral side of Vinciarelli 218<br/>2 and the bent conductor of Zeng 014 to allow solder to<br/>3 physically exist?<br/>4 <b>A. Maybe. I mean, a skilled artisan would</b><br/>5 <b>make the choices needed to solder the two components,</b><br/>6 <b>if that's the route they're going. They would</b><br/>7 <b>implement using their knowledge. Again, soldering or</b><br/>8 <b>connecting two electrical components together is</b><br/>9 <b>routine.</b><br/>10 Q. Okay. After the bending process, you<br/>11 stated that reflow would occur; correct?<br/>12 <b>A. In that particular example, yes. You would</b><br/>13 <b>heat it up to solder the carrier to the power supply.</b><br/>14 Q. And what would control the reflow of --<br/>15 actually, during reflow, what would control the<br/>16 solder from migrating, or making a connection between<br/>17 two PCB barcodes?<br/>18 <b>A. The amount of solder and the time that the</b><br/>19 <b>part is in the oven.</b><br/>20 Q. And your declaration did not describe the<br/>21 solder process; right?<br/>22 <b>A. Correct. The connection between the</b><br/>23 <b>carrier and the barcodes is not something I felt</b><br/>24 <b>needed to be discussed.</b><br/>25 Q. And then, in the case of adhesive, where</p> | <p>55</p> <p>1 Q. Dr. Baker, can you please turn to<br/>2 paragraph 169 of your declaration.<br/>3 <b>A. Okay.</b><br/>4 Q. I guess turn to the next page so you're at<br/>5 10613.<br/>6 <b>A. Yup.</b><br/>7 Q. Have you seen solder being used in<br/>8 conjunction with a stamping process before? Rather<br/>9 -- strike that. Have you seen -- strike that. In<br/>10 your experience as -- in your experience, have you<br/>11 seen a device that has been -- has had solder applied<br/>12 and then a conductor stamped upon it?<br/>13 MR. KATZ: Objection to form.<br/>14 THE WITNESS: No. That wasn't what I --<br/>15 the stamping process occurs -- it has nothing to do<br/>16 with the soldering process. You do the stamping<br/>17 prior to soldering to the leads of the package.<br/>18 They're independent processes.<br/>19 Q. I believe before you stated that solder --<br/>20 one process was to connect solder to the PCB barcodes<br/>21 of Vinciarelli 218, and then stamp the Zeng 014<br/>22 conductor, and then reflow the solder?<br/>23 MR. KATZ: Objection to form. I know you<br/>24 don't mean to misrepresent, Miguel, but he tried to<br/>25 correct you -- this isn't coaching. I'm speaking.</p> |
| <p>54</p> <p>1 would the adhesive be placed onto the -- rather, let<br/>2 me take a step back. In the case of adhesive, would<br/>3 the adhesive be placed on the PCB barcodes of<br/>4 Vinciarelli 218, or on the conductor of Zeng 014<br/>5 prior to stamping?<br/>6 MR. KATZ: Objection to form.<br/>7 THE WITNESS: I mean, a skilled artisan<br/>8 would pick what works best for their particular<br/>9 application. I mean, again, connecting two<br/>10 electronic components together is routine work for a<br/>11 skilled artisan.<br/>12 Q. Okay. Let's look at figure -- let's see.<br/>13 We've got a ton of figures. We're discussing<br/>14 Figure 17 of Exhibit 1009? What benefits do you see<br/>15 that the Zeng 014 conductor provides over the<br/>16 Vinciarelli 218 figure 17 adapter.<br/>17 <b>A. For example, a big one is smaller size. It</b><br/>18 <b>takes up a smaller footprint.</b><br/>19 Q. Let me skip ahead to -- bear with me one<br/>20 second.<br/>21 <b>A. If you're ready, I could do with another</b><br/>22 <b>break.</b><br/>23 MR. BOMBACH: Yeah. Let's take a quick<br/>24 break. Let's go off the record.<br/>25 (Recess taken.)</p>                                                                                                                                              | <p>56</p> <p>1 Do not interrupt me while I'm speaking.<br/>2 MR. BOMBACH: Okay. You cannot coach.<br/>3 MR. KATZ: I'm not coaching.<br/>4 MR. BOMBACH: Yes.<br/>5 MR. KATZ: I'm telling you --<br/>6 MR. BOMBACH: No speaking objections<br/>7 allowed. Don't yell. No speaking objections<br/>8 allowed. I'm trying to ask a simple question. No<br/>9 speaking objections allowed. Period. No speaking<br/>10 objections.<br/>11 MR. KATZ: He did not --<br/>12 MR. BOMBACH: Period. Period.<br/>13 MR. KATZ: First of all, you are incorrect.<br/>14 Go check the trial manual.<br/>15 MR. BOMBACH: Period.<br/>16 MR. KATZ: I can object and say you are<br/>17 misstating his testimony. If you want to go to the<br/>18 board over this, I'm happy to do that.<br/>19 MR. BOMBACH: Just act cordially, Mr. Katz.<br/>20 No speaking objections.<br/>21 MR. KATZ: I was going to until you<br/>22 interrupted me. So let me make my piece. If you<br/>23 want to say I'm making an improper objection, go<br/>24 ahead, but you've misrepresented his testimony.<br/>25 MR. BOMBACH: Okay. Understood that you</p>                                                                                                                 |

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| <p style="text-align: right;">57</p> <p>1 have that opinion. No more speaking objections,<br/>2 please.<br/>3 MR. KATZ: No more making statements that<br/>4 don't represent the record. Just please ask a<br/>5 question without an incorrect premise.<br/>6 MR. BOMBACH: Ridiculous. Ridiculous.<br/>7 That's ridiculous.<br/>8 Q. Dr. Baker, I would love a clear record. As<br/>9 I understand your testimony to be that the conductor<br/>10 of Zeng 14 can be attached to the Vinciarelli PCB<br/>11 barcodes via three techniques. One, physical<br/>12 attachment; two, adhesive; three, solder and then<br/>13 reflow; is that correct or incorrect?<br/>14 <b>A. Those were the three that come to mind.</b><br/>15 <b>Yes.</b><br/>16 Q. Okay. And because Mr. Katz said I<br/>17 misrepresented testimony, can you please restate how<br/>18 the third solder and then reflow to attach the<br/>19 conductor of Zeng 014 to the PCB barcodes of<br/>20 Vinciarelli would work? And in your answer, can you<br/>21 please take it step-by-step?<br/>22 MR. KATZ: Objection to form. But yes, you<br/>23 may answer Dr. Baker.<br/>24 THE WITNESS: In all techniques, before you<br/>25 put the -- before you place the module or the power</p>                                                                                                                                                                                         | <p style="text-align: right;">59</p> <p>1 <b>before it's packaged, or you could place it on the</b><br/>2 <b>carrier so that when you wrap it up, it goes into the</b><br/>3 <b>right place and makes a connection.</b><br/>4 Q. How would the solder be placed on the PCB<br/>5 barcode of Vinciarelli 218?<br/>6 <b>A. Physically place it there.</b><br/>7 Q. How?<br/>8 <b>A. Generally, there was some sort of syringe</b><br/>9 <b>that comes down and will place a precise amount of</b><br/>10 <b>solder paste on the particular location you want, and</b><br/>11 <b>then once you have the right amount and you've done</b><br/>12 <b>the wrapping, you would then heat up the lead frame</b><br/>13 <b>so that it soldered the lead frame to the package. I</b><br/>14 <b>mean, you might also -- one other method that just</b><br/>15 <b>popped into my head which is commonly used in</b><br/>16 <b>packaging is a thermo sonic bonding, where you would</b><br/>17 <b>just take in the -- bond the metal to the barcode</b><br/>18 <b>through the outside. I mean, I didn't really put a</b><br/>19 <b>lot of thought into how the carrier is connected to</b><br/>20 <b>the barcode, because it's routine.</b><br/>21 <b>Connecting two conductors together is just</b><br/>22 <b>something that's done a lot by a skilled artisan.</b><br/>23 <b>It's ultrasonic. It uses high frequency vibrations</b><br/>24 <b>to mechanically connect the two materials.</b><br/>25 Q. In your experience, have you been involved</p> |
| <p style="text-align: right;">58</p> <p>1 converter on the lead frame, we'll call it, the lead<br/>2 frame is stamped. So you have a piece of metal. You<br/>3 stamp it into a shape. You stamp creases in it if<br/>4 you're going to do bending. You stamp text into it<br/>5 if you want to identify marks. Once it's stamped, it<br/>6 goes from a sheet of metal into a specific shape, and<br/>7 a lot of times they're in panels.<br/>8 So it's a shape for many power converters.<br/>9 Then, after you stamped the metal and you've got what<br/>10 will ultimately be the conductors that you will<br/>11 solder to or use to connect to the power converter,<br/>12 you place the power converter on the stamped outline.<br/>13 Then, you would use one of the techniques that I<br/>14 discussed or that you mentioned, you know, either a<br/>15 physical connection, soldering, or conductive<br/>16 adhesive to have the leads once they're bent over<br/>17 connected to the barcode of the power converter in<br/>18 Vinciarelli 218.<br/>19 Q. Okay. In the instance of solder, prior to<br/>20 curving the conductor of Zeng 014 onto the module of<br/>21 Vinciarelli 218, would solder be placed in a certain<br/>22 position?<br/>23 <b>A. It would be placed on the barcode. It</b><br/>24 <b>could come -- the module could come with the solder</b><br/>25 <b>on the barcode to keep the barcode from oxidizing</b></p> | <p style="text-align: right;">60</p> <p>1 in a bending or curving process such as the one<br/>2 described in Zeng 014?<br/>3 <b>A. Similar but not the same, no.</b><br/>4 Q. Have you seen solder be used in the manner<br/>5 you described for a bent conductor like the one in<br/>6 Zeng 014?<br/>7 <b>A. Probably, but I can't sitting here think of</b><br/>8 <b>an example. But I've done all kinds of packaging</b><br/>9 <b>stuff for various things. When I first got out of</b><br/>10 <b>school, all I did was custom instrumentation design</b><br/>11 <b>for various scientific instruments, and so I did all</b><br/>12 <b>kinds of crazy stuff.</b><br/>13 Q. And as I understand it, you state that the<br/>14 solder would be applied to the lateral side of<br/>15 Vinciarelli 218's PCB barcodes; correct?<br/>16 <b>A. For the carrier, it could be connected to</b><br/>17 <b>either one or both.</b><br/>18 Q. For clarity, when you say, "the carrier" in<br/>19 your answer, are you referring to the Zeng conductor,<br/>20 or are you referring to the Vinciarelli carrier?<br/>21 <b>A. The Zeng conductor in Figure 5B on the top</b><br/>22 <b>of page 106, PDF page 113.</b><br/>23 Q. Did you consider any physical offsets<br/>24 between the solder and the conductor that would be<br/>25 required in your combination between Vinciarelli 218</p>                                                                                                                                                      |

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| <p>61</p> <p>1 and Zeng 014?</p> <p>2 <b>A. I mean, if there's a physical offset</b></p> <p>3 <b>required, it's required. Again, it's routine to</b></p> <p>4 <b>connect two conductors together. So the skilled</b></p> <p>5 <b>artisan would select whatever works best for their</b></p> <p>6 <b>particular application.</b></p> <p>7 Q. Did you consider how the solder would</p> <p>8 remain in place considering that it would be plied on</p> <p>9 a lateral side of a device?</p> <p>10 <b>A. It would be pasted. There would be a glue.</b></p> <p>11 <b>The solder would be in a paste and it would be glued</b></p> <p>12 <b>to the side. And then when the carrier in Zeng is</b></p> <p>13 <b>pressed up against it, it would be held in place</b></p> <p>14 <b>there and then you heat it for long enough for it to</b></p> <p>15 <b>melt but not so long that it melts and falls, to make</b></p> <p>16 <b>the connection. I mean, if that's the route you</b></p> <p>17 <b>pick, it may work just fine. When you increase the</b></p> <p>18 <b>metal to bend it up, it makes a physical contact and</b></p> <p>19 <b>that works fine too.</b></p> <p>20 Q. Did you consider how the solder would</p> <p>21 migrate via gravity during the reflow process?</p> <p>22 <b>A. That's what I was just talking about. You</b></p> <p>23 <b>would heat it up for long enough that you would</b></p> <p>24 <b>liquify, but not so long that it would mechanically</b></p> <p>25 <b>get thin so that it fell to the ground or fell toward</b></p> | <p>63</p> <p>1 If you would like, I could upload it.</p> <p>2 <b>A. I mean, I can't come up with a detailed</b></p> <p>3 <b>opinion right now. I'm sure if I'm asked to write a</b></p> <p>4 <b>reply declaration, I'll detail my opinions then. But</b></p> <p>5 <b>I mean, it wouldn't be -- it wouldn't be good or -- I</b></p> <p>6 <b>mean, I wouldn't have opinions I could stand behind</b></p> <p>7 <b>coming up with them right now without really thinking</b></p> <p>8 <b>about it. I just know overall I didn't agree because</b></p> <p>9 <b>I don't -- I think that what I proposed was of very</b></p> <p>10 <b>solid combination that a person of ordinary skill in</b></p> <p>11 <b>the art would have found reasonable.</b></p> <p>12 <b>Reducing the size of Vinciarelli 218, so it</b></p> <p>13 <b>takes a smaller footprint. They would have been</b></p> <p>14 <b>motivated to look at what's taught in Zeng 014, to do</b></p> <p>15 <b>that. I don't see that that's an unreasonable or</b></p> <p>16 <b>inaccurate combination or conclusion.</b></p> <p>17 Q. Did you suggest -- rather, did you find</p> <p>18 Vinciarelli 218 and Zeng 014, or were they provided</p> <p>19 to you?</p> <p>20 <b>A. They were provided to me.</b></p> <p>21 Q. Okay. Bear with me one second. Dr. Baker,</p> <p>22 looking at Zeng 014, which is Exhibit 1008, figures</p> <p>23 5A through AE describe wrapping a conductor on an</p> <p>24 inductor; correct?</p> <p>25 <b>A. Yes. They describe wrapping a conductor</b></p> |
| <p>62</p> <p>1 <b>the earth because of gravity. I mean, again, it's</b></p> <p>2 <b>routine to connect two conductors together. There's</b></p> <p>3 <b>all kinds of ways of doing it.</b></p> <p>4 Q. In the case of adhesives, what types of</p> <p>5 adhesives would you envision being used?</p> <p>6 <b>A. Conductive adhesives. Some sort of</b></p> <p>7 <b>conductor like silver or tin, or something in the</b></p> <p>8 <b>adhesive. Again, all of these answers are me just</b></p> <p>9 <b>trying to answer questions as I'm sitting here right</b></p> <p>10 <b>now. It's routine to connect two conductors</b></p> <p>11 <b>together, so I didn't write about that and I don't</b></p> <p>12 <b>think Zeng discussed it either in his application.</b></p> <p>13 Q. Did you review the patent office board's</p> <p>14 institution decision?</p> <p>15 <b>A. Yes.</b></p> <p>16 Q. Do you have an opinion -- rather, did you</p> <p>17 recall the board stating that the combination of</p> <p>18 wrapping Zeng 014's conductors to Vinciarelli 218's</p> <p>19 module was hindsight bias?</p> <p>20 MR. KATZ: Objection to form. Misstates</p> <p>21 the decision.</p> <p>22 THE WITNESS: I don't recall exactly what</p> <p>23 was said in the institution decision. I just know I</p> <p>24 didn't agree with it.</p> <p>25 Q. Do you remember what you disagreed with?</p>                                                                                                                                                             | <p>64</p> <p>1 <b>around a component, which in this case, is an</b></p> <p>2 <b>inductor.</b></p> <p>3 Q. Can you please provide your basis for</p> <p>4 stating that a POSITA would look at techniques for</p> <p>5 wrapping an inductor and applying it to wrapping a</p> <p>6 whole integrated component such as the one described</p> <p>7 in Vinciarelli 218?</p> <p>8 <b>A. Sure. I write about this in paragraph 60</b></p> <p>9 <b>of my declaration. "The '263 patent uses the term</b></p> <p>10 <b>thermo electronic component such as a moss fitter and</b></p> <p>11 <b>integrated circuit, an entire combination of</b></p> <p>12 <b>electronic components such as a power module, and may</b></p> <p>13 <b>also include a part of a core or a magnetic element."</b></p> <p>14 <b>So I think the '263 is pretty clear about</b></p> <p>15 <b>what electronic component would be, and in Zeng 014,</b></p> <p>16 <b>the electronic component is an inductor. In my</b></p> <p>17 <b>combinations, it's a power module.</b></p> <p>18 Q. In taking a step back, you had previously</p> <p>19 mentioned that an adhesive could be used in the</p> <p>20 combination of Vinciarelli 218 and Zeng 014's</p> <p>21 conductors; right?</p> <p>22 <b>A. Conductive adhesive. Yes.</b></p> <p>23 Q. In your experience using Zeng's conductors,</p> <p>24 have you used a conductive adhesive before?</p> <p>25 <b>A. Probably. But if you asked me a specific</b></p>                                                                 |

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| <p>65</p> <p>1 example, I couldn't tell you. I have done all kinds<br/>2 of packaging on stuff for various things that require<br/>3 unusual approaches. So maybe I have or maybe I<br/>4 haven't. I don't remember.</p> <p>5 Q. And have you seen in the art -- in the art<br/>6 as of the time of the filing of the '263 patent, have<br/>7 you seen a conductive adhesive being used in the<br/>8 bending of conductors like the ones in Zeng 014 in<br/>9 the manner you described?</p> <p>10 A. I have seen conductive adhesive used with<br/>11 bent conductors, yes. But maybe not in the way that<br/>12 I describe, but maybe I have. I just don't know. I<br/>13 don't remember. I've done a lot of different<br/>14 developments and things. I mean, there was a time I<br/>15 was working on modules for memory, and we tried all<br/>16 kinds of things to reduce power, even no adhesive for<br/>17 solder between two electrical conductors, and we used<br/>18 a capacitive connection to couple the signal through,<br/>19 which we called proximity communications.</p> <p>20 I've just done a lot. I can't remember one<br/>21 specific example of that.</p> <p>22 Q. Dr. Baker, I would like to go to your<br/>23 declaration that you had previously described that<br/>24 the benefit of adding Zeng 014's conductor to<br/>25 Vinciarelli was to save board space. Do you recall</p> | <p>67</p> <p>1 A. Yes.</p> <p>2 Q. And in your opinion, would there be no<br/>3 problems with heat dissipation?</p> <p>4 A. I mean, in general it would be better<br/>5 because you could more easily melt the power<br/>6 converter to a heat sink. For example, if it could<br/>7 be flush with the board.</p> <p>8 Q. As I understand, you're stating a heat sink<br/>9 atop the surface of the power module; correct?</p> <p>10 A. A heat sink could be on the top, of the<br/>11 bottom, or on both. There's embodiments and<br/>12 Vinciarelli that show the heat sink being on the top<br/>13 end and the bottom.</p> <p>14 Q. If you could turn to exhibit -- Vinciarelli<br/>15 218, Exhibit 1009. If you could look at Figure 34.</p> <p>16 A. Okay.</p> <p>17 Q. In preparing your declaration, did you<br/>18 consider the heat dissipation considerations when<br/>19 applying Zeng 014's conductors to the bottom portion<br/>20 of Figure 34?</p> <p>21 A. Yes. As I talked about earlier, you could<br/>22 -- having it closer to the board would allow maybe a<br/>23 thermally conductive material to allow the board to<br/>24 be used for heat sinking as well.</p> <p>25 Q. So as I understand it, you are stating that</p>                                                      |
| <p>66</p> <p>1 that? It'll take me a few seconds to find that<br/>2 section if you do not recall.</p> <p>3 A. I think I discuss that in paragraph 167,<br/>4 for example.</p> <p>5 Q. Dr. Baker, how would -- let me take a step<br/>6 back. In terms of saving space, are you referring to<br/>7 a horizontal or lateral space savings?</p> <p>8 A. It would be both, because --</p> <p>9 Q. Okay.</p> <p>10 A. If you look at it in a horizontal<br/>11 direction, it would take up less space but, of<br/>12 course, in the lateral area it would take up less<br/>13 space as well.</p> <p>14 Q. Did you consider the size of the Zeng 014<br/>15 -- strike that. In forming your declaration, did you<br/>16 consider the thickness immediate for the Zeng 014<br/>17 conductor?</p> <p>18 A. Yes. In the vertical distance using Zeng,<br/>19 Vinciarelli 218, for example, would reduce the<br/>20 vertical height, so it would be better. Using the<br/>21 adapters in Vinciarelli, you would have the power<br/>22 converter sticking further up.</p> <p>23 Q. Did you consider heat dissipation of your<br/>24 proposed combination with the conductors of Zeng 014<br/>25 onto Vinciarelli 218?</p>                                                                                                                                                                                              | <p>68</p> <p>1 the conductor would double as a heat dissipating<br/>2 unit; is that correct?</p> <p>3 A. No. It's just, you have a smaller package.<br/>4 The amount goes right on the board. You don't have<br/>5 leads sticking out like you do in Figure 34. So<br/>6 there's a height a -- a little bit further height<br/>7 above the board, potentially. Not necessarily. To<br/>8 answer your question, yes. I had thought about the<br/>9 heat issues. I think this package -- as I wrote<br/>10 about in the declaration, the combination would be<br/>11 better.</p> <p>12 Q. Would having the device placed directly<br/>13 upon the PCB increase or decrease -- rather, let me<br/>14 take a step back. In your opinion, would having a<br/>15 height between the bottom portion of Vinciarelli 314<br/>16 and the PCB increase or decrease heat dissipation as<br/>17 opposed to having it directly mounted upon the PCB?</p> <p>18 A. I think you meant to say Vinciarelli 218<br/>19 and you said 314.</p> <p>20 Q. Yeah.</p> <p>21 A. Generally, just as a general overview when<br/>22 you have something hot touch something else like the<br/>23 printed circuit board, it's better because the<br/>24 printed circuit board will conduct the heat out<br/>25 better than air.</p> |

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| <p style="text-align: right;">69</p> <p>1 Q. Okay. If we could turn to Zeng, which is<br/>2 Exhibit 1008. Let's just look at, I guess,<br/>3 Figure 5D. As I understand your Vinciarelli 218 and<br/>4 Zeng 014 combination to exist, the conductor of Zeng<br/>5 014 would wrap around the Vinciarelli module; right?<br/>6 <b>A. Yes.</b><br/>7 Q. It would look somewhat similar to Figure 5D<br/>8 if we assume that the Vinciarelli module is within?<br/>9 <b>A. Yes.</b><br/>10 Q. Before, you had testified that a heat sink<br/>11 could be used. I ask you, where upon Figure 5D would<br/>12 you propose that a heat sink be placed?<br/>13 <b>A. I don't recall that testimony, but you can</b><br/>14 <b>put a heat sink wherever you can touch the package.</b><br/>15 <b>It's the heat sink that acts as something to pull</b><br/>16 <b>heat away from the power converter. But I don't know</b><br/>17 <b>what we were talking about in the testimony you're</b><br/>18 <b>referencing.</b><br/>19 Q. Yeah. So we'll just -- to make it clearer,<br/>20 let's just talk about Figure 5D. You had proposed<br/>21 that a heat sink could be placed atop the conductor<br/>22 61?<br/>23 <b>A. I'm proposing the heat sink could be placed</b><br/>24 <b>anywhere on the package, but yes, atop 61 works as</b><br/>25 <b>well if you need a heat sink. The issue is, nowadays</b></p> | <p style="text-align: right;">71</p> <p>1 type connection for the adaptor, the power converter<br/>2 and the adaptor.<br/>3 Q. If you could please point me to that, Dr.<br/>4 Baker. I don't -- I'm looking myself as well. I<br/>5 just want to --<br/>6 <b>A. Yup, give me two seconds. Vinciarelli 218?</b><br/>7 Q. Any of the Vinciarelli's that you had seen<br/>8 where he suggested bending conductors. And very<br/>9 quickly, are you referring to page 94, which is also<br/>10 labelled page 101, which depicts Figure 18? Is that<br/>11 the bending of a conductor that you were referring<br/>12 to?<br/>13 <b>A. Where were you in my declaration?</b><br/>14 Q. I apologize. Page 94, which is page 101 of<br/>15 Exhibit 1003?<br/>16 <b>A. I was thinking more like Figure 17 of</b><br/>17 <b>Vinciarelli 218.</b><br/>18 Q. Okay. Outside of bending conductors for an<br/>19 adapter, had you seen Mr. Vinciarelli ever discuss<br/>20 bending or curving a conductor onto one of his<br/>21 modules?<br/>22 <b>A. Not in the same way Zeng teaches, but I</b><br/>23 <b>mean, if you look at Figure 17 and you imagine the</b><br/>24 <b>adaptors are -- let me see if I can find a better</b><br/>25 <b>figure. Figure 19 shows bending around the power</b></p>                                                                       |
| <p style="text-align: right;">70</p> <p>1 the switching power supplies and the power converters<br/>2 are so efficient that you can -- most of the time,<br/>3 you don't need heat sinking because their<br/>4 efficiencies are pushing 97, 98 percent, so their<br/>5 circuits are just not dissipating very much power.<br/>6 Q. In your declaration, you reviewed many<br/>7 patents and publications from the inventor,<br/>8 Vinciarelli; correct?<br/>9 <b>A. I reviewed publications from Vinciarelli.</b><br/>10 <b>Yes.</b><br/>11 Q. In all the patents and publications, did<br/>12 Mr. Vinciarelli ever propose bending conductors onto<br/>13 his modules?<br/>14 <b>A. Well, he certainly proposed bending</b><br/>15 <b>conductors and connecting them to his modules, but he</b><br/>16 <b>didn't propose it the way Zeng taught it, where it</b><br/>17 <b>wraps around the module.</b><br/>18 Q. Why did you exclude -- rather, you excluded<br/>19 that Vinciarelli discussion from your declaration;<br/>20 correct?<br/>21 MR. KATZ: Objection to form.<br/>22 THE WITNESS: I showed figures where<br/>23 Vinciarelli has stamped and bent conductors, and if<br/>24 you would like me to point you to one, I can. For<br/>25 example, bending to provide, like, a surface mount</p>                                                                                             | <p style="text-align: right;">72</p> <p>1 module where some leads go in and some leads are<br/>2 coming out and going flat, but bending leads is<br/>3 routine. It's -- they know how to bend them with a<br/>4 curve to minimize stress when they're placed. They<br/>5 know how to bend them at right angles with a crease.<br/>6 <b>This is routine engineering work.</b><br/>7 Q. In preparing your declaration, did you<br/>8 consider the type of encapsulant described by Mr.<br/>9 Vinciarelli in Vinciarelli 218?<br/>10 <b>A. I don't recall. I mean, encapsulants are</b><br/>11 <b>generally some sort of resin that's used, but you</b><br/>12 <b>could have some other type of encapsulant. I mean,</b><br/>13 <b>we talked about shielding the cores in the</b><br/>14 <b>transformer with conductors. I mean, it's just all</b><br/>15 <b>engineering design decisions, but I don't recall</b><br/>16 <b>looking at the specific type of encapsulants.</b><br/>17 Q. Give me one second. I think I'm about to<br/>18 wrap up.<br/>19 MR. BOMBACH: Thank you for your time, Dr.<br/>20 Baker. I have no further questions.<br/>21 THE WITNESS: Thank you.<br/>22 MR. KATZ: Okay. I have a few questions I<br/>23 would like clarification on, Dr. Baker.<br/>24 EXAMINATION BY MR. KATZ<br/>25 Q. There was some discussion about a sentence</p> |

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| <p>73</p> <p>1 in paragraph 168. If you could just turn back to<br/>2 168. If you could see the figure at the bottom of<br/>3 the next page, that would be useful too. I don't<br/>4 know if you can do that at the same time.<br/>5 <b>A. Just one sec. Okay. Go ahead with your</b><br/>6 <b>question.</b><br/>7 Q. So in the -- do you see Figure 35 at the<br/>8 end of paragraph 169?<br/>9 <b>A. Yes.</b><br/>10 Q. Okay. Does module 800 have surface mount<br/>11 conductors on it?<br/>12 <b>A. Surface mount conductors? Yes.</b><br/>13 Q. All right. I'm referring to the module.<br/>14 <b>A. I mean, the module itself has no</b><br/>15 <b>components. It's a box.</b><br/>16 Q. Okay. Maybe it would be better to turn to<br/>17 Figure 18, because that's actually a different -- can<br/>18 you turn to Figure 18 of Exhibit 1009, which is the<br/>19 figure with the surface mount adapters?<br/>20 <b>A. Yes.</b><br/>21 Q. Okay. Just trying to clarify a point here.<br/>22 In Figure 18, is it your understanding that the<br/>23 surface mount adapters are part of module 35, or<br/>24 would be added to module 35?<br/>25 <b>A. Do you mean to say module 315?</b></p>                          | <p>75</p> <p>1 again. In that sentence, was your reference to<br/>2 Vinciarelli 218 -- what were you referring to, if you<br/>3 remember?<br/>4 MR. BOMBACH: Objection. Leading.<br/>5 Q. I'm going to try it one more time. Do you<br/>6 recall what you intended to refer to in that sentence<br/>7 when you said Vinciarelli 218?<br/>8 MR. BOMBACH: Again, objection. Leading.<br/>9 THE WITNESS: Just the module part of<br/>10 Figure 18. For example, not the adapters.<br/>11 Q. Okay. And do you recall testimony about<br/>12 the cores of transformers earlier?<br/>13 <b>A. Yes.</b><br/>14 Q. Okay. Can a transformer core be left<br/>15 grounded or ungrounded or does it need to be one or<br/>16 the other?<br/>17 <b>A. It can be grounded or ungrounded. It's the</b><br/>18 <b>magnetic flux which transfers the energy.</b><br/>19 Q. Okay. And in the Vinciarelli patents that<br/>20 you looked at, do the patents exclude one of those<br/>21 possibilities? Either grounding or grounding the<br/>22 magnetic core?<br/>23 <b>A. As I testified earlier, if you short a</b><br/>24 <b>core, you could short at the ground, but it's being</b><br/>25 <b>shorted. You need to know that. How it's designed,</b></p> |
| <p>74</p> <p>1 Q. I'm sorry. Figure 18 of the -- oh. Yes.<br/>2 I need better glasses. Yes. Module 315?<br/>3 <b>A. Those are added.</b><br/>4 Q. So module 315, the figure shows surface<br/>5 mount conductors even though module 315 does not have<br/>6 itself surface mount conductors?<br/>7 <b>A. Correct.</b><br/>8 Q. Now go back to 189. Excuse me,<br/>9 paragraph 168 of your declaration where you were<br/>10 asked about Vinciarelli 218 does not have surface<br/>11 mount conductors and, thus, in the combination,<br/>12 Zeng's 104 conductors would be ignored. Do you<br/>13 remember when you were asked about that sentence?<br/>14 <b>A. Yes.</b><br/>15 Q. I'm just wondering, were you trying to say<br/>16 that there was no mention of surface mount conductors<br/>17 in Vinciarelli 218? Was that what you intended to<br/>18 say?<br/>19 MR. BOMBACH: Objection. Leading.<br/>20 Q. I'm going to withdraw the question. Your<br/>21 reference to Vinciarelli 218 in that sentence, were<br/>22 you referring to the entire 218 patent disclosure, or<br/>23 were you referring to something else?<br/>24 MR. BOMBACH: Objection. Leading.<br/>25 Q. I got an objection. I have to ask it</p> | <p>76</p> <p>1 <b>then it's fine.</b><br/>2 Q. There were a few questions that were<br/>3 allowed during this deposition that I felt that your<br/>4 answers maybe showed that you didn't necessarily<br/>5 understand the question. Just how I saw it. I'm<br/>6 going to ask you this. Have you offered any<br/>7 testimony here today that you believe is contrary to<br/>8 the opinions in your declaration?<br/>9 MR. BOMBACH: Objection. Leading.<br/>10 THE WITNESS: Not that I know of or that I<br/>11 can think of.<br/>12 Q. So do you believe the testimony you offered<br/>13 here today is entirely consistent with the opinions<br/>14 rendered in your declaration?<br/>15 MR. BOMBACH: Objection. Leading.<br/>16 THE WITNESS: I believe so.<br/>17 Q. Okay. Based on the testimony you gave<br/>18 today, do you have any corrections or changes you<br/>19 would like to make to your declaration?<br/>20 <b>A. Other than the typos that I mentioned at</b><br/>21 <b>the beginning of the deposition, no.</b><br/>22 MR. KATZ: Okay. Thanks. No further<br/>23 questions.<br/>24 MR. BOMBACH: One second. Give me<br/>25 30 seconds to think. No further questions.</p>                                                |

Transcript of Dr. R. Jacob Baker  
Conducted on December 20, 2024

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| <p>77</p> <p>1 Thanks. Off the record. If we could have<br/>2 a rush on the rough and a rush on the official<br/>3 transcript. If you could send the rough right away<br/>4 and the official transcript on a rush. We're on a<br/>5 deadline on our end.<br/>6 MR. KATZ: We don't need anything. I've<br/>7 been sleeping fine, so I don't need this transcript<br/>8 for my nighttime reading.<br/>9 (Proceedings concluded at 1:38 P.M.)<br/>10<br/>11<br/>12<br/>13<br/>14<br/>15<br/>16<br/>17<br/>18<br/>19<br/>20<br/>21<br/>22<br/>23<br/>24<br/>25</p>                                                                                                    | <p>79</p> <p>1 STATE OF CALIFORNIA )<br/> )<br/>2 COUNTY OF LOS ANGELES )<br/>3<br/>4 I, Michael Cagliata, Certified<br/>5 Shorthand Reporter No. 14491, do hereby<br/>6 Certify:<br/>7 That prior to being examined, the witness<br/>8 named in the foregoing deposition was by me duly<br/>9 sworn to testify the truth, the whole truth, and<br/>10 nothing but the truth;<br/>11 That said deposition was taken down by me<br/>12 in shorthand and thereafter reduced to print by<br/>13 means of computer-aided transcription; and the same<br/>14 is a true, correct, and complete transcript of said<br/>15 proceedings.<br/>16 I further certify that I am not<br/>17 interested In the outcome of the action.<br/>18 Witness my hand this 20th day of December, 2024.<br/>19<br/>20 <i>M. Cagliata</i><br/>21 _____<br/>Michael Cagliata, CSR #14491, RPR<br/>22 Certified Shorthand Reporter<br/>In and for the State of California<br/>23<br/>24<br/>25</p> |
| <p>78</p> <p>1 DECLARATION UNDER PENALTY OF PERJURY<br/>2<br/>3 I, DR. R. JACOB BAKER, do hereby certify<br/>4 under penalty of perjury that I have read the<br/>5 foregoing transcript of my deposition taken December<br/>6 20, 2024; that I have made such corrections as appear<br/>7 noted on the Deposition Errata Page attached hereto<br/>8 and signed by me; that my testimony as contained<br/>9 herein, as corrected, is true and correct.<br/>10<br/>11 Dated this _____ day of _____,<br/>12 2024, at _____,<br/>13 California.<br/>14<br/>15 _____<br/>DR. R. JACOB BAKER<br/>16<br/>17<br/>18<br/>19<br/>20<br/>21<br/>22<br/>23<br/>24<br/>25</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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Transcript of Dr. R. Jacob Baker  
Conducted on December 20, 2024

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