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13	kevin@radip.com	
	RADULESCU LLP	Attorneys for Plaintiff
14	111 Congress Ave, Suite 500 Austin, TX 78701	Seoul Viosys Co., Ltd.
15	Telephone: (512) 656-5743	
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17		
18	UNITED STATES DISTRICT COURT	
19	CENTRAL DISTRIC	CT OF CALIFORNIA
20	SEOUL VIOSYS CO., LTD., a Korean	
21	Corporation,	Case No. : 2:24-cv-4238
	Plaintiff,	COMPLAINT FOR PATENT
22	V.	INFRINGEMENT
23		DEMAND FOR JURY TRIAL
24	FEIT ELECTRIC CO., INC,	DEMANDFORJURY I KIAL
25	Defendant.	
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28		
	COMPLAINT FOR PATENT INFRINGEMENT	

Case 2	24-cv-04238-ODW-AJR Document 1 Filed 05/21/24 Page 2 of 26 Page ID #:2
1	COMPLAINT FOR PATENT INFRINGMENT
2	Plaintiff Seoul Viosys Co., Ltd. ("Seoul Viosys") for its Complaint against
3	Defendant Feit Electric Co., Ltd. ("Feit") allege as follows:
4	NATURE OF THE ACTION
5	1. Plaintiff Seoul Viosys bring this patent infringement action to protect its
6	valuable patented technology relating to light emitting diodes ("LEDs") and LED
7	lighting. An LED is a semiconductor device that converts electrical energy into light.
8	LEDs have many advantages over conventional light sources, including lower energy
9	consumption, longer lifetime, and smaller size.
10	2. Seoul Viosys innovates in the area of LED technology. Seoul Viosys
11	designs, manufactures and sells LEDs of varying wavelengths (e.g., visible light,
12	near ultra-violet, and ultra-violet "UV") for numerous applications and products,
13	including televisions, monitors, lighting, curing, printing, counterfeit detection,
14	disinfection, sensors, and analytical and medical instrument.
15	THE PARTIES
16	1. Plaintiff Seoul Viosys is a company organized and existing under the
17	laws of the Republic of Korea, with its principal place of business at 65-16, Sandan-
18	ro 163 beon-gil, Danwon-gu, Ansan-city, Gyeonggi-do, Korea 425-851.
19	2. Defendant Feit is a corporation organized and existing under the laws of
20	the State of California with a principal place of business at 4901 Gregg Road, Pico
21	Rivera, California 90660.
22	JURISDICTION AND VENUE
23	3. This Court has jurisdiction over the subject matter of this action under 28
24	U.S.C. §§ 1331 and 1338(a) because, at the very least, this action arises under the
25	patent laws of the United States, including 35 U.S.C. § 271 et seq.
26	4. This Court has personal jurisdiction over Feit because it is a corporation
27	organized and existing under the laws of the State of California with a principal place
28	of business at 4901 Gregg Road, Pico Rivera, California 90660.
	I COMPLAINT FOR PATENT INFRINGEMENT

5. Venue is proper within this judicial district under 28 U.S.C. § 1400(a)
 because principle place of business is in this District, and therefore, Feit resides in
 this District.

- PATENTS-IN-SUIT
- 6. Seoul Viosys is the lawful owner of all right, title, and interest in United
 States Patent No. 11,879,602 entitled "Light Source Module for Plant Cultivation
 and Light Irradiation Device Including the Same" ("the '602 patent"), including the
 right to sue and to recover for infringement thereof. The '800 patent was duly and
 legally issued on January 23, 2024, by the United States Patent and Trademark Office
 to Ko. A copy of the '602 patent is attached hereto as <u>Exhibit A</u>.

7. Seoul Viosys is the lawful owner of all right, title, and interest in United 11 States Patent No. 9,837,387 entitled "Light Emitting Apparatus" ("the '387 patent"), 12 including the right to sue and to recover for infringement thereof. The '387 patent 13 was duly and legally issued on December 5, 2017, by the United States Patent and 14 Trademark Office to Choi. A copy of the '387 patent is attached hereto as Exhibit B. 15 8. Seoul Viosys is the lawful owner of all right, title, and interest in United 16 States Patent No. 10,163,975 entitled "Light Emitting Apparatus" ("the '975 17 18 patent"), including the right to sue and to recover for infringement thereof. The '975 19 patent was duly and legally issued on December 25, 2018, by the United States Patent and Trademark Office to Choi. A copy of the '975 patent is attached hereto as Exhibit 20 21 C.

- 9. Seoul Viosys is the lawful owner of all right, title, and interest in United
 States Patent No. 9,269,871 entitled "Light Emitting Diode" ("the '871 patent"),
 including the right to sue and to recover for infringement thereof. The '871 patent
 was duly and legally issued on February 23, 2016, by the United States Patent and
 Trademark Office to Kim et al. A copy of the '871 patent is attached hereto as Exhibit
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10. Seoul Viosys is the lawful owner of all right, title, and interest in United

States Patent No. 9,929,314 entitled "Light Emitting Diode Chip Having Electrode
 Pad" ("the '314 patent"), including the right to sue and to recover for infringement
 thereof. The '314 patent was duly and legally issued on March 27, 2018, by the
 United States Patent and Trademark Office to Kim et al. A copy of the '314 patent
 is attached hereto as Exhibit E.

6 11. Seoul Viosys is the lawful owner of all right, title, and interest in United
7 States Patent No. 7,982,207 entitled "Lighting Emitting Diode" ("the '207 patent"),
8 including the right to sue and to recover for infringement thereof. The '207 patent
9 was duly and legally issued on July 19, 2011, by the United States Patent and
10 Trademark Office to Kim et al. A copy of the '207 patent is attached hereto as Exhibit
11 <u>F</u>.

WILLFULNESS

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12. On July 21, 2023, Seoul Viosys sent a warning letter to Home Depot 13 regarding Seoul Viosys's concerns that various EcoSmart white filament products 14 15 were infringing its patents, including EcoSmart A19605CCTCA/WFIL/ECP, one of the products at issue in this litigation. Based upon Home Depot's past history of 16 sharing warning letters with its suppliers, including Feit, Seoul Viosys is informed 17 18 and believes, and on that basis alleges, that Home Depot may have shared this 19 warning letter with Feit, thereby putting Feit on notice that EcoSmart white filament 20 products were infringing Seoul's patents.

13. On November 8, 2023, Seoul Viosys sent a letter directly to Feit's 21 22 counsel, John Mitchell, warning Feit that it was selling products that infringe Seoul 23 Viosys's patents. Seoul Viosys gave examples of infringing products and patents, including EcoSmart white filament products. Specifically, Seoul Viosys explained 24 Feit's PAR38/RGBW/CA/AG(C) product was infringing many patents belonging to 25 26 Seoul Viosys and Seoul Semiconductor Co., Ltd., and that EcoSmart 27 A19605CCTCA/WFIL/ECP was infringing Seoul Viosys's patents as well, 28 including the '387 patent, the '975 patent, and the '207 patent. Seoul Viosys stated

that patent infringement is a very serious matter and asked Feit to confirm that it would stop selling products that infringe Seoul's patents. Seoul did not receive any response to this letter.

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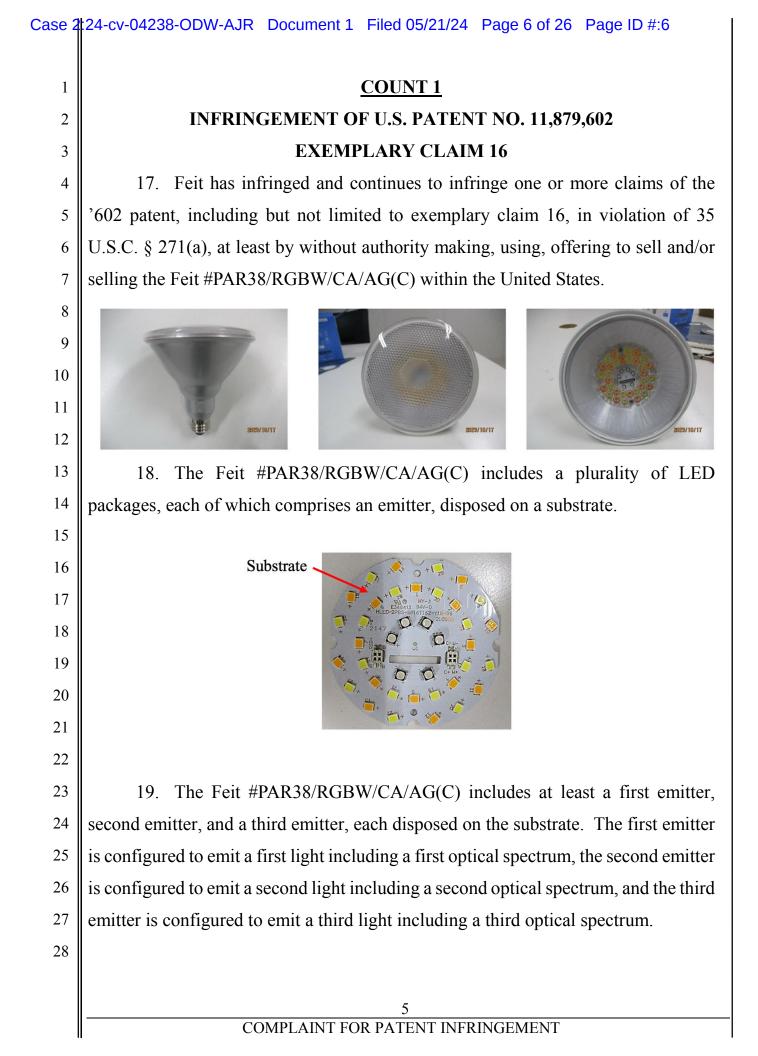
14. On January 23, 2024, having heard nothing in response from Feit, Seoul Viosys sent a follow-up letter to Feit, reminding Feit about its infringement concerns, including specifically, EcoSmart A19605CCTCA/WFIL/ECP. Seoul Viosys counsel requested again that Feit stop selling products that infringe Seoul Viosys's patents. Seoul Viosys did not receive any response to this letter.

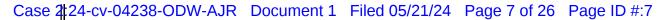
15. On February 20, 2024, having heard nothing in response from Feit, Seoul 9 Viosys counsel sent a further follow up letter to Feit. In the letter, Seoul Viosys 10 11 referenced its initial warning letter from July 2023 as to Feit products being sold 12 through Home Depot and other distribution channels. Seoul Viosys also referenced its other warning letters and noted that Feit had declined to provide any assurance to 13 Seoul that it would stop selling infringing products. Seoul Viosys enclosed a claim 14 chart illustrating examples of infringement by Feit of Seoul's '314 patent. Seoul 15 Viosys requested again that Feit stop selling products that infringe Seoul Viosys's 16 patents. Despite this, Seoul Viosys did not receive any response to this letter. 17

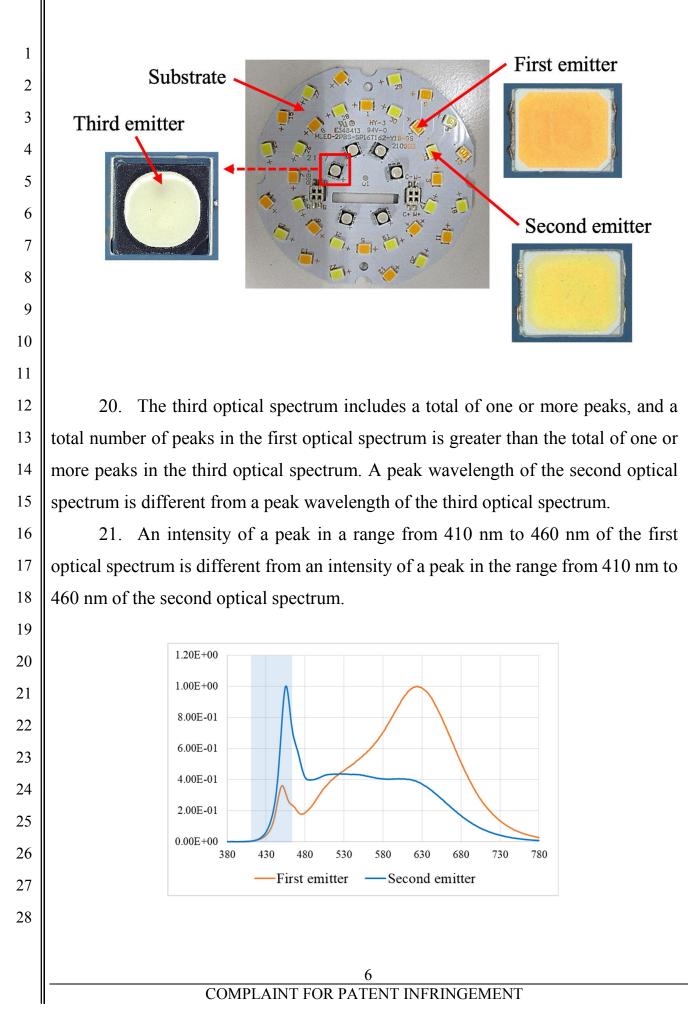
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18 16. On May 13, 2024, Seoul Viosys sent a final letter to Feit, noting that it 19 had warned Feit many times about Seoul's patent infringement concerns. Seoul Viosys also copied Kal Shah, Feit's outside litigation counsel on the letter. Seoul 20 its further Feit's 21 Viosys noted that based upon investigation. 22 PAR38/RGBW/CA/AG(C) product was also infringing the '602 patent and that 23 Feit's EcoSmart A19605CCTCA/WFIL/ECP product was also infringing the '871 patent. Seoul Viosys attached exemplary claim charts showing infringement of these 24 patents by Feit products. Seoul Viosys requested yet again that Feit stop selling 25 products that infringe Seoul Viosys's patents, but has never received any response to 26 this or its prior described letters. 27

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22. Feit's infringement has caused and is continuing to cause damage and
 irreparable injury to Plaintiff. Plaintiff will continue to suffer damage and irreparable
 injury unless and until that infringement is enjoined by this Court, as a remedy at law
 alone would be inadequate.

5 23. Feit's infringement has occurred with knowledge of the '602 patent and
6 knowledge that its acts constitute infringement. Feit's continuing conduct, therefore,
7 is willful.

8 24. Plaintiff is entitled to injunctive relief and damages in accordance with
9 35 U.S.C. §§ 271, 281, 283, and 284.

COUNT 2

INFRINGEMENT OF U.S. PATENT NO. 9,837,387 EXEMPLARY CLAIM 1

13 25. Feit has infringed and continues to infringe one or more claims of the
14 '387 patent, including but not limited to exemplary claim 1, in violation of 35 U.S.C.
15 § 271(a), at least by without authority making, using, offering to sell and/or selling
16 the EcoSmart #A19605CCTCA/WFIL/ECP within the United States.

17 26. The EcoSmart #A19605CCTCA/WFIL/ECP includes a plurality of chip18 on-board type LED packages, each of which comprises a semiconductor light
19 emitting device. Optical microscope images of the LED package from the EcoSmart
20 #A19605CCTCA/WFIL/ECP are reproduced below. As shown in the image below
21 right, the LED package includes a light emitting diode (LED) chip.



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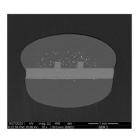
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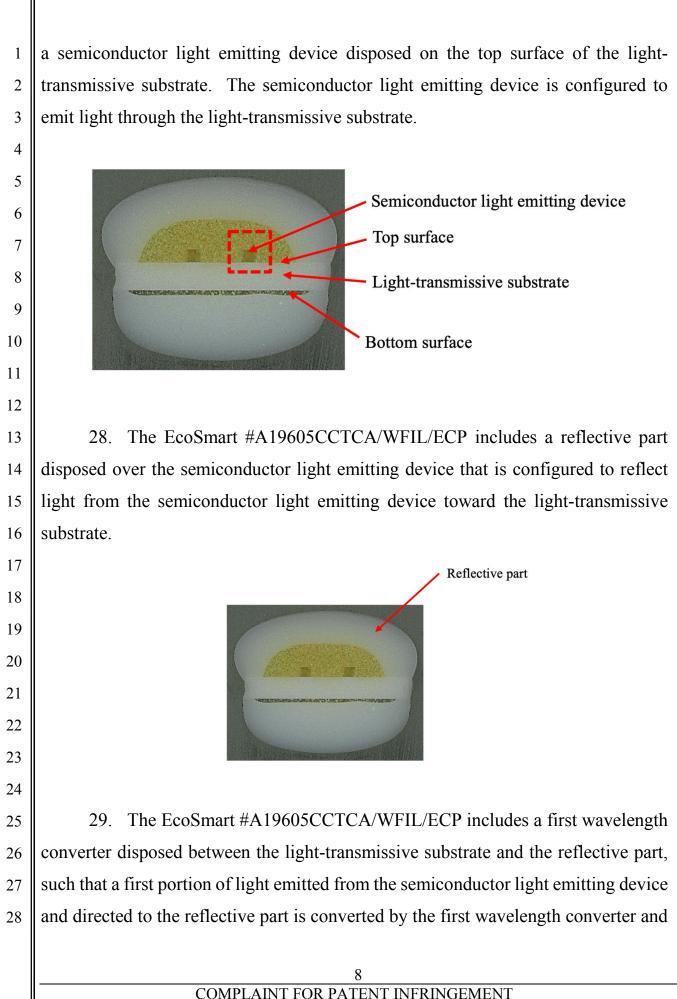
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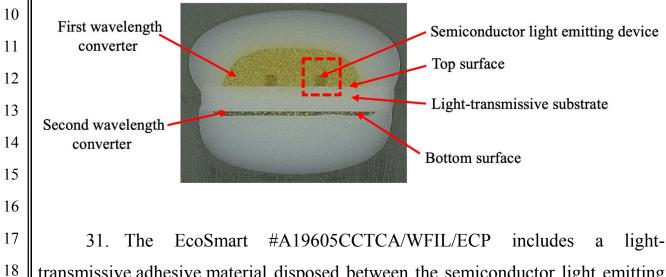


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 27. The EcoSmart #A19605CCTCA/WFIL/ECP includes a light 27
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a second portion of light emitted from the semiconductor light emitting device and
 directed to the reflective part passes through the first wavelength converter without
 wavelength conversion.

30. The EcoSmart #A19605CCTCA/WFIL/ECP includes a second wavelength converter disposed directly on the bottom surface of the lighttransmissive substrate at a position corresponding to the semiconductor light emitting device, such that a third portion of light emitted from the semiconductor light emitting device and directed to the light-transmissive substrate is converted by the second wavelength converter



transmissive adhesive material disposed between the semiconductor light emitting device and the light-transmissive substrate. The reflective part is configured to reflect the first portion of light converted by the first wavelength converter and the second portion of light passing through the first wavelength converter toward the lighttransmissive substrate.

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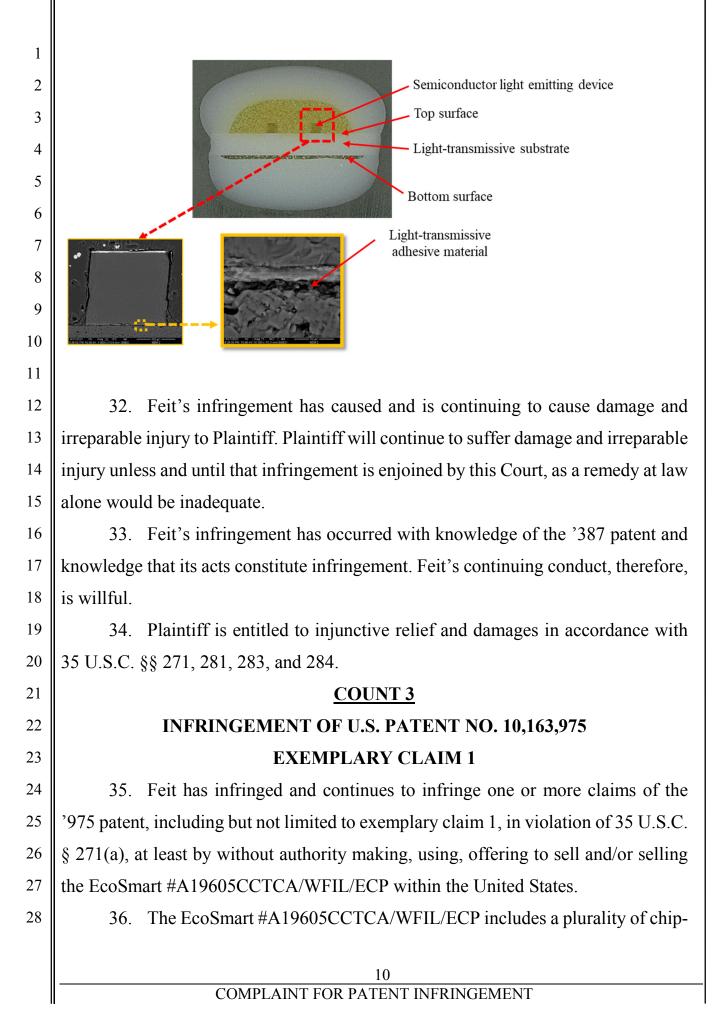
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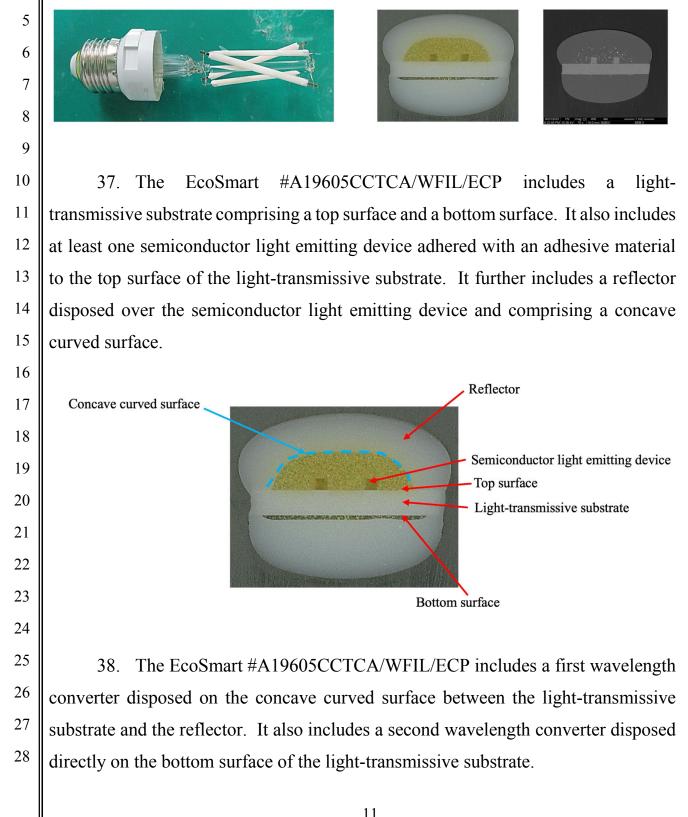
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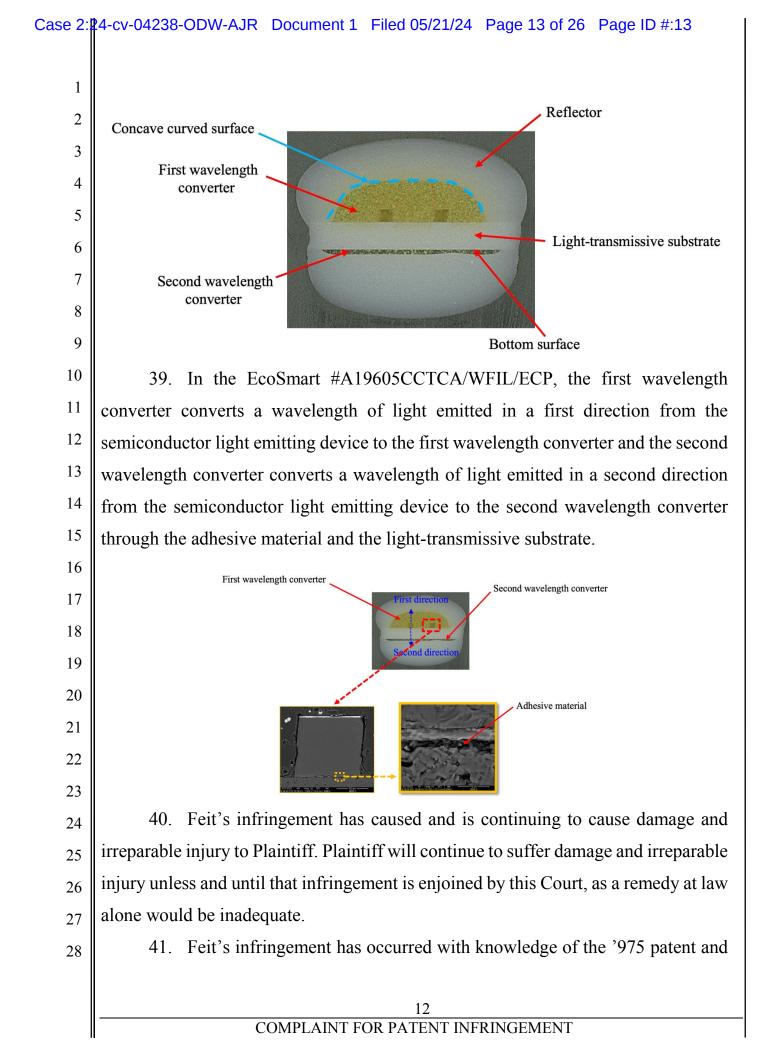
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on-board type LED packages, each of which comprises a semiconductor light
 emitting device. Optical microscope images of the LED package from the EcoSmart
 #A19605CCTCA/WFIL/ECP are reproduced below. As shown in the image below
 right, the LED package includes a light emitting diode (LED) chip.





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knowledge that its acts constitute infringement. Feit's continuing conduct, therefore,
 is willful.

42. Plaintiff is entitled to injunctive relief and damages in accordance with
35 U.S.C. §§ 271, 281, 283, and 284.

COUNT 4

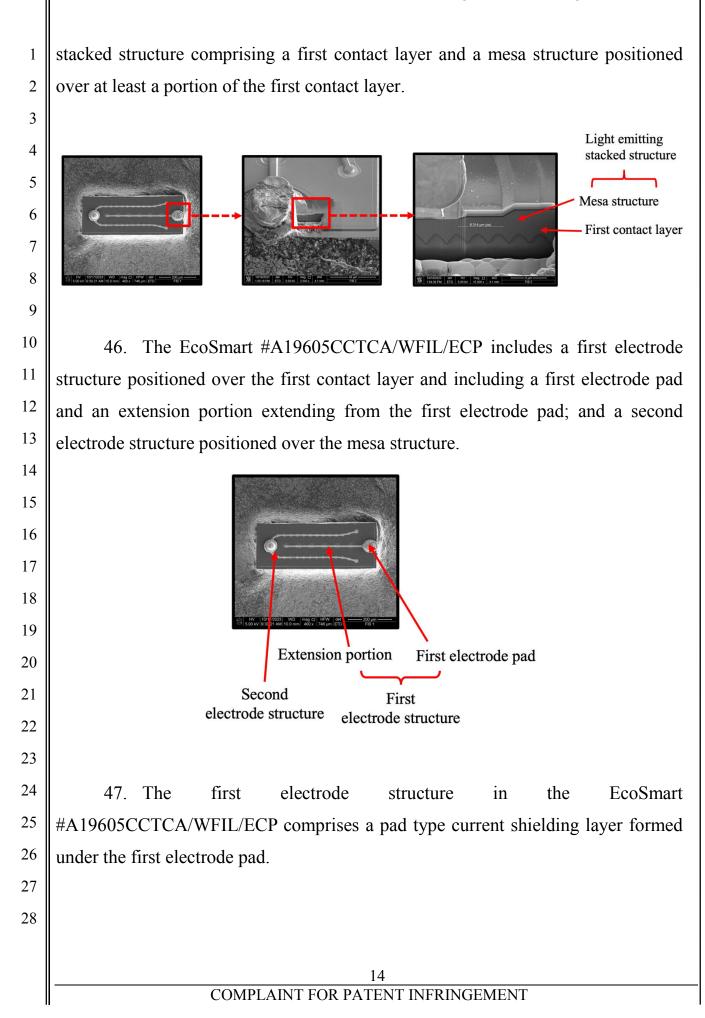
INFRINGEMENT OF U.S. PATENT NO. 9,269,871 EXEMPLARY CLAIM 1

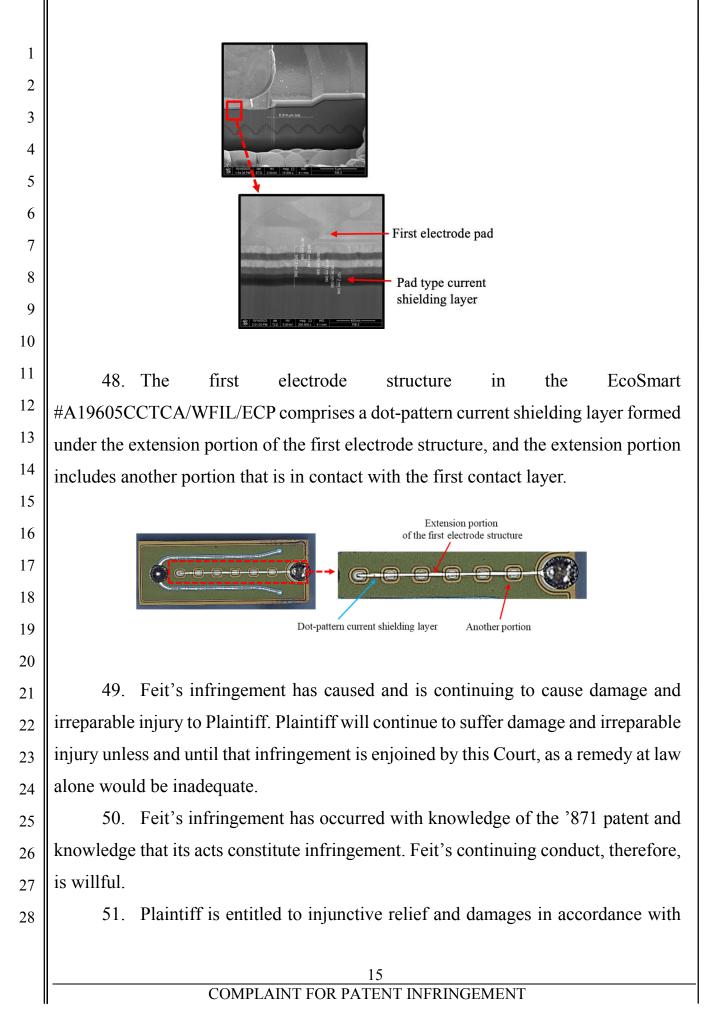
8 43. Feit has infringed and continues to infringe one or more claims of the
9 '871 patent, including but not limited to exemplary claim 7, in violation of 35 U.S.C.
10 § 271(a), at least by without authority making, using, offering to sell and/or selling
11 the EcoSmart #A19605CCTCA/WFIL/ECP within the United States.

44. The EcoSmart #A19605CCTCA/WFIL/ECP includes a plurality of chipon-board type LED packages, each of which comprises a light emitting diode.
Optical microscope images of the LED package from the EcoSmart
#A19605CCTCA/WFIL/ECP are reproduced below before and after removal of an
encapsulant. As shown in the image below right, the LED package includes a light
emitting diode (LED) chip.



45. Below are three Scanning Electron Microscope (SEM) images of an LED chip from the EcoSmart #A19605CCTCA/WFIL/ECP. The left image shows the top image of the LED chip. The center image shows the area surrounding the electrode pad. The dark space near the electrode pad in the bottom image indicates a hole created using a FIB. The right composite image shows the cross-section of the hole. Focusing in on the central part of the image, the cross-section shows a light emitting





35 U.S.C. §§ 271, 281, 283, and 284.

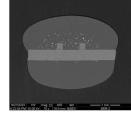
<u>COUNT 5</u> INFRINGEMENT OF U.S. PATENT NO. 9,929,314 EXEMPLARY CLAIM 1

52. Feit has infringed and continues to infringe one or more claims of the '314 patent, including but not limited to exemplary claim 1, in violation of 35 U.S.C. § 271(a), at least by without authority making, using, offering to sell and/or selling the EcoSmart #A19605CCTCA/WFIL/ECP within the United States.

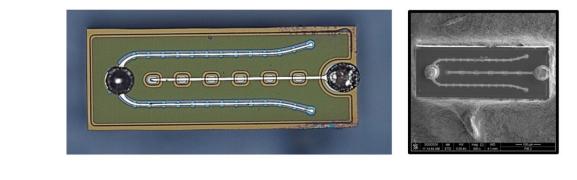
53. The EcoSmart #A19605CCTCA/WFIL/ECP includes a plurality of LED packages, each of which includes light emitting diode devices. Optical microscope images of an LED package from the EcoSmart #A19605CCTCA/WFIL/ECP are reproduced below before and after removal of an encapsulant. As shown in the image below right, the LED package includes two light emitting diode devices.

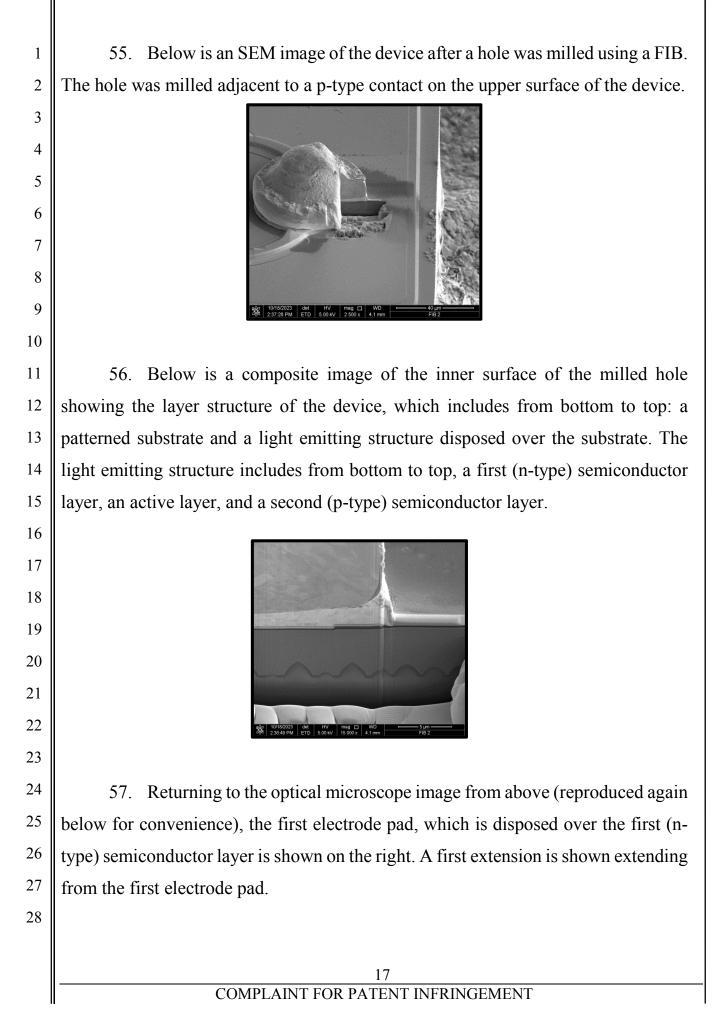






54. Optical and SEM images of an LED device from the EcoSmart #A19605CCTCA/WFIL/ECP are reproduced below.





7 58. The image below shows a hole milled into the first extension using a FIB. 8 The hole is milled through the middle of a set of three faint ovals visible in the image 9 below. The ovals also appear as bright slightly wider regions around the first 10 extension in the optical microscope image above. The ovals indicate regions within 11 which the first extension includes first portions that are in contact with the underlying first (n-type) semiconductor layers. The areas outside of ovals indicate second 12 13 portions that are not in contact with the first (n-type) semiconductor layer. Those 14 regions can also be seen in the optical microscope image above as relatively narrow 15 portions of the first extension between the ovals described above. As the images also 16 show, the first portions and one of the second portions are alternately disposed along the first extension. 17



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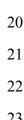
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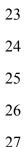
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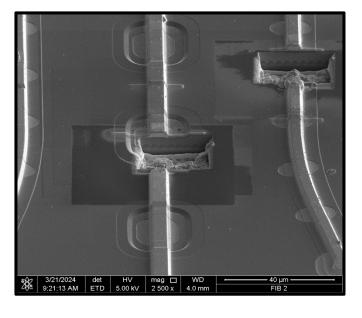
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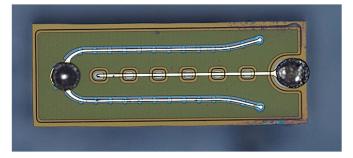




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59. Returning again to the optical microscope image from above (reproduced
 again below for convenience), the second electrode pad, which is disposed over a
 transparent electrode layer and a second (p-type) semiconductor layer is shown on
 the left side. A second extension comprising two portions is shown extending from
 the second electrode pad.



¹² 60. Feit's infringement has caused and is continuing to cause damage and
 ¹³ irreparable injury to Plaintiff. Plaintiff will continue to suffer damage and irreparable
 ¹⁴ injury unless and until that infringement is enjoined by this Court, as a remedy at law
 ¹⁵ alone would be inadequate.

¹⁶ 61. Feit's infringement has occurred with knowledge of the '314 patent and
¹⁷ knowledge that its acts constitute infringement. Feit's continuing conduct, therefore,
¹⁸ is willful.

¹⁹ 62. Plaintiff is entitled to injunctive relief and damages in accordance with
²⁰ 35 U.S.C. §§ 271, 281, 283, and 284.

<u>COUNT 6</u> INFRINGEMENT OF U.S. PATENT NO. 7,982,207

EXEMPLARY CLAIM 7

²⁴ 63. Feit has infringed and continues to infringe one or more claims of the
²⁵ '207 patent, including but not limited to exemplary claim 7, in violation of 35 U.S.C.
²⁶ § 271(a), at least by without authority making, using, offering to sell and/or selling
²⁷ the EcoSmart #A19605CCTCA/WFIL/ECP within the United States.

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64. The EcoSmart #A19605CCTCA/WFIL/ECP includes a plurality of chip-

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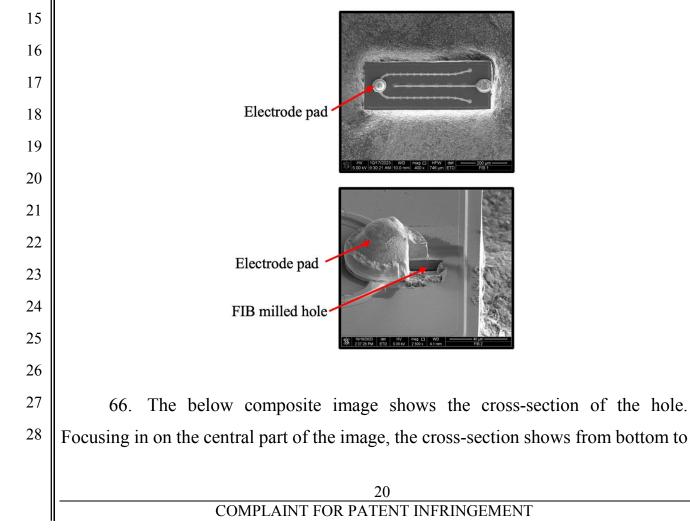
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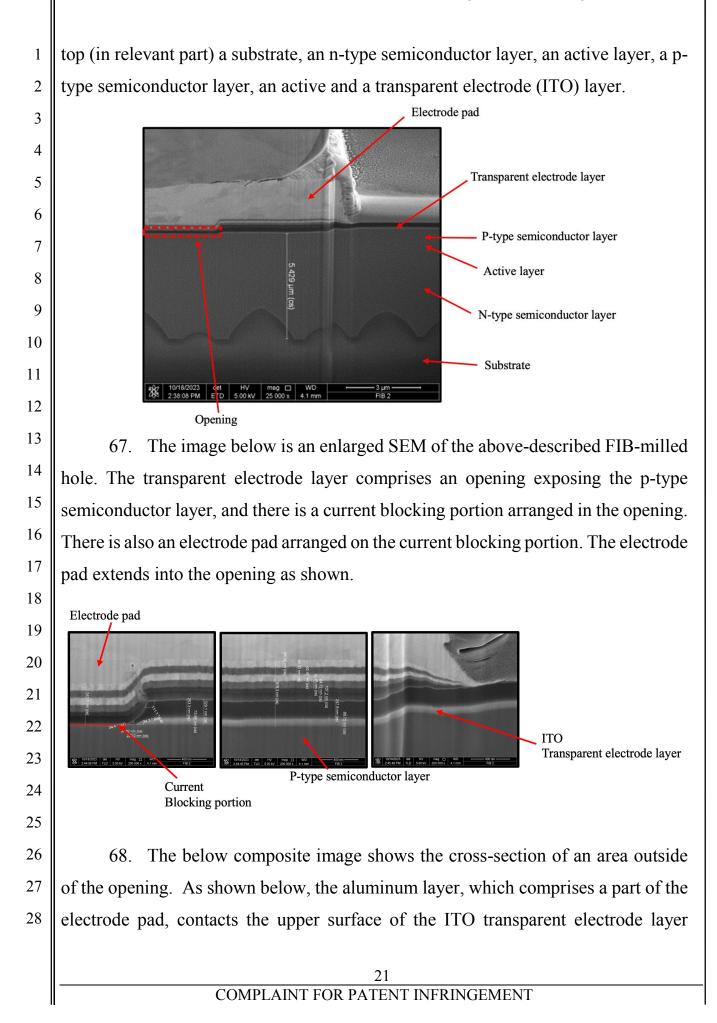
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on-board type LED packages, each of which comprises a light emitting diode.
 Optical microscope images of the LED package from the EcoSmart
 #A19605CCTCA/WFIL/ECP are reproduced below before and after removal of an
 encapsulant. As shown in the image below right, the LED package includes a light
 emitting diode (LED) chip.

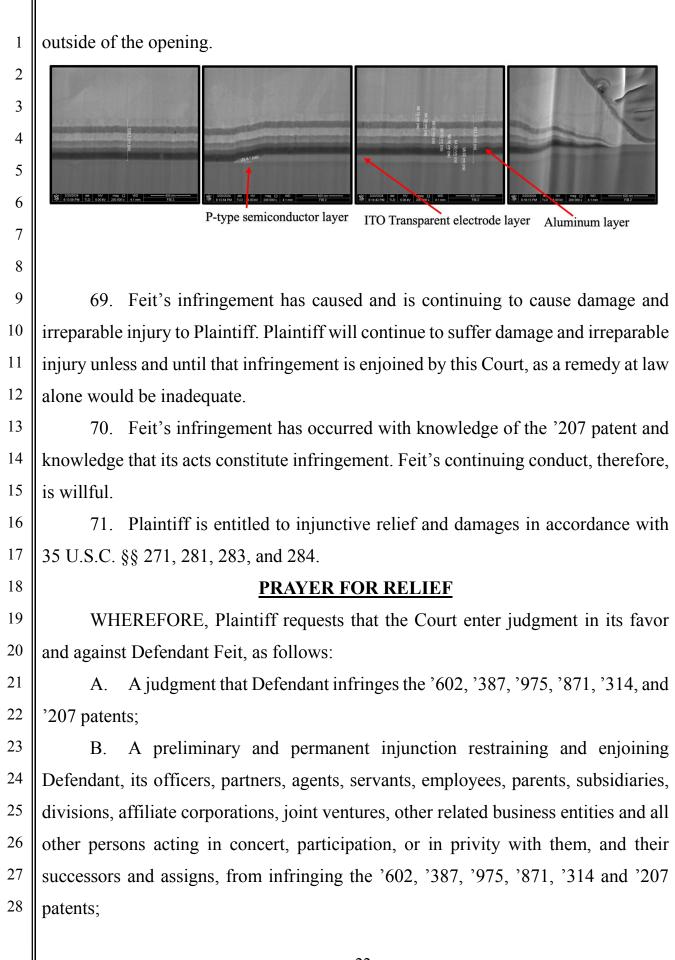


65. Below are two Scanning Electron Microscope (SEM) images of an LED
chip from the EcoSmart #A19605CCTCA/WFIL/ECP. The top image shows the top
image of the LED chip, with an electrode pad labeled. The second image shows the
area surrounding the electrode pad. The dark space near the electrode pad in the
bottom image indicates a hole created using a FIB.









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1	C. An award of damages to Plaintiff arising from Defendant's past and	
2	continuing infringement up until the date Defendant is finally and permanently	
3	enjoined from further infringement, including compensatory damages;	
4	D. A determination that Defendant's infringement of one or more of '602,	
5	'387, '975, '871, '314 and '207 patents was willful, and a trebling of damages	
6	pursuant to 35 U.S.C. § 284;	
7	E. A determination that this is an exceptional case and awarding Plaintiff's	
8	attorneys' fees pursuant to 35 U.S.C. § 285;	
9	F. An order awarding Plaintiff the costs and expenses that it has incurred in	
10	prosecuting this action;	
11	G. An order awarding Plaintiff pre- and post-judgment interest on its	
12	damages; and	
13	H. Such other and further relief in law or in equity as this Court deems just	
14	and proper.	
15	JURY DEMAND	
16	Plaintiff Seoul Viosys respectfully requests a jury trial on all issues so triable.	
17	DATED: May 21, 2024 Respectfully submitted,	
18	/s/ Guy Ruttenberg	
19	David C. Radulescu, Ph.D. (pro hac vice forthcoming)	
20	Etai Lahav (<i>pro hac vice forthcoming</i>) Jonathan Auerbach (<i>pro hac vice</i>	
21	forthcoming)	
22	Bryon Wasserman (Bar No. 215681) bryon@radip.com	
23	Radulescu LLP 5 Penn. Plaza, 19 th Floor	
24	New York, NY 10001	
25	Telephone: 646-502-5950 Facsimile: 646-502-5959	
26	david@radip.com etai@radip.com	
27	jonathan@radip.com	
28	bryon@radip.com	
	23 COMPLAINT FOR PATENT INFRINGEMENT	

	Varia C. V. Alex (and har and
1	Kevin S. Kudlac (<i>pro hac vice</i> forthcoming) Radulescu LLP
2	111 Congress Ave, Suite 500
3	Austin, TX 78701 Telephone: 512-656-5743
4	kevin@radip.com
5	Guy Ruttenberg (Bar No. 207937)
6	guy@ruttenbergiplaw.com Ruttenberg IP Law
7	1801 Century Park East, Ste. 1920
8	Los Angeles, CA 90067 Telephone: 310-627-2270
9 10	Fax: 310-627-2260
10	Attorneys for Plaintiff
11	Seoul Viosys Co., Ltd.
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	24 COMPLAINT FOR PATENT INFRINGEMENT
I	COWFLAINT FOR PATENT INFRINGEMENT

DTIFICATE OF SEDVICE

1	CERTIFICATE OF SERVICE	
2	I hereby certify that on May 21, 2024, I electronically filed the foregoing	
3	document with the Clerk of the Court using CM/ECF. I also certify that the	
4	foregoing document is being served this day on all counsel of record via	
5		
6	transmission of Notices of Electronic Filing generated by CM/ECF.	
7	<u>/s/ Guy Ruttenberg</u>	
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	25 COMPLAINT FOR PATENT INFRINGEMENT	
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