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5 6 7	Counsel for Plaintiff LITTELFUSE, INC.		
8	UNITED STATES DISTRICT COURT		
9	NORTHERN DISTRICT OF CALIFORNIA		
10			
11	LITTELFUSE, INC.,	Case No.	
12	Plaintiff,	COMPLAINT FOR WILLFUL PATENT	
13	V.	INFRINGEMENT	
14 15	ADLER ELEKTROTECHNIK LEIPZIG GMBH and WORLD PRODUCTS, INC.,	JURY TRIAL DEMANDED	
16	Defendants.		
17			
18	Plaintiff LITTELFUSE, INC. ("Littelfuse'	") files this Complaint and demand for jury trial	
19	seeking relief for the willful infringement of United States Patent No. 9,564,281 ("the '281 Patent")		
20	by Defendants ADLER ELEKTROTECHNIK LEIPZIG GMBH ("Adler") and WORLD		
21	PRODUCTS, INC. ("World Products" and with Adler collectively "Defendants"). On April 4,		
22	2023, Littelfuse sent a letter to Defendants advising them of their infringement of the '281 Patent		
23	through their sale of fuse end caps with a crimpable terminal and fuses incorporating such fuse end		
24	caps, including Adler 1500 volt fuses bearing model numbers A74, A78, A79, A84, A85 and A89.		
25	Since receiving that letter, Defendants have not stopped their willful infringement, which has led to		
26	this legal action.		
27			
28		COMPLAINT FOR WILLFUL PATENT INFRINGEMENT Case No	

Littelfuse states and alleges the following:

THE PARTIES

1. Littelfuse is a Delaware corporation with a place of business in Chicago, Illinois. 4 Littelfuse is a global leader in circuit protection, power control, and sensing platforms. Since its 5 founding in 1927, Littelfuse has led the industry with innovative products and services to serve the 6 engineering needs of customers in nearly every conceivable industry, including the solar industry, 7 in which in-line fuses covered by the '281 Patent are primarily marketed.

2. On information and belief, Adler is a German limited liability company with a place of business in or near Leipzig, Germany. Adler sells in-line fuses in competition with Littelfuse.

3. On information and belief, World Products is a California corporation with a place 10 11 of business in Sonoma, California. World Products is believed to be an exclusive distributor of in-

line fuses for Adler in the United States.

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JURISDICTION, VENUE, AND DIVISIONAL ASSIGNMENT

14 4. This is an action for patent infringement arising under the patent laws of the United 15 States (Title 35, United States Code).

16 5. This Court has jurisdiction over the subject matter of this action pursuant to 28 U.S.C. §§ 1331 and 1338(a). 17

18 6. This Court has personal jurisdiction over Adler because Adler transacts continuous 19 and systematic business within the Northern District of California, including the sale and 20 importation of infringing in-line fuses in and into the Northern District of California.

7. This Court has personal jurisdiction over World Products because World Products is domiciled in and transacts continuous and systematic business within the Northern District of California, including the distribution, use, sale and/or offer to sell, and/or importation of infringing in-line fuses in and into the Northern District of California.

25 8. Venue properly lies within the Northern District of California pursuant to the 26 provisions of 28 U.S.C. §§ 1391(b) and (c) and 1400(b).

9. 27 For purposes of divisional assignment under Civil L.R. 3-2(c) and 3-5(b), this action involves intellectual property rights and will be assigned on a district-wide basis. 28

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FACTUAL ALLEGATIONS

10. On February 7, 2017, United States Patent No. 9,564,281, entitled "Fuse End Cap With Crimpable Terminal," was duly and legally issued by the United States Patent and Trademark Office. A copy of the '281 Patent is attached as Exhibit A.

11. Plaintiff Littelfuse, by lawful assignment, is the owner of all rights, title, and interest in and to the '281 Patent.

7 12. While the devices described in the '281 Patent can be used in many applications, a 8 major use is with photovoltaic applications, i.e., solar panels. The '281 Patent is directed to a fuse 9 end cap with a crimpable terminal and fuses incorporating such fuse end caps. As background, fuses 10 have long been used in electrical devices for providing an interruptible electrical connection between 11 a source of electrical power and a component in an electrical circuit that is to be protected. See 12 Exhibit A at Col. 1:14-17. For example, upon the occurrence of a sudden electrical surge, an element 13 within a fuse may separate and interrupt the flow of electrical current to a protected circuit 14 component, thereby preventing or mitigating potential damage to the component. See id. at Col. 15 1:17-24.

16 13. Fuses may be disposed between a component in an electric circuit and a source of 17 electric power and connected by, for example, a conductive wire. See id. at Col. 1:25-27. Wires 18 may be connected to the respective ends or end caps of fuses by soldering, welding, and other 19 connections. See id. at Col. 1:27-28. These common methods of connecting conductive wires to a 20 fuse or fuse end cap have drawbacks, however, such as generating excessive heat that can damage 21 the fuse. These methods are also problematic in that soldering of conductive wires to fuse ends is 22 prone to inconsistencies that could potentially compromise the electrical connection. Additionally, some prior art fuses require additional components that are awkward, cumbersome and take up 23 valuable space in tight, complex circuitry. See, e.g., id. at Col. 1:28-43. 24

14. The '281 Patent describes a simple, new and improved fuse assembly with a fuse end
cap that eliminates the need for soldering or welding the fuse to an electrical wire or conductor,
comprising: (1) a mounting cuff defining a first cavity that receives an end of a fuse; (2) a terminal
defining a second cavity that receives a conductor, wherein the terminal is crimped about conductor;

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1 and (3) a fastening stem that extends from the mounting cuff and into the second cavity of the 2 terminal that receives the conductor. See id. at Col. 7:30-42. Such fuses are typically referred to as "in-line" fuses. 3

4 15. Adler makes, uses, offers for sale, imports into the United States, and sells in-line 5 fuses, including at least the following families of 1500 volt fuses, bearing the model numbers A74, 6 A78, A79, A84, A85 and A89.

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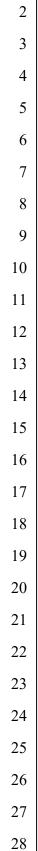
16. On information and belief, to account for use in circuits with different amperages, Adler makes, uses, offers for sale, imports into the United States and sells at least 5 different versions of A74 fuses; 9 different versions of A78 fuses; 4 different versions of A79 fuses; 38 different versions of A84 fuses; 30 different versions of A85 fuses; and 24 different versions of A89 fuses (collectively referred to as the "Accused Fuses"). Regardless of the amperage ratings, all of the 12 Accused Fuses share the same fundamental end cap designs that infringe the '281 Patent.

17. Adler's making, using, offering for sale, importing into the United States, and selling of the Accused Fuses infringes the '281 Patent, and induces and contributes to the infringement of the '281 Patent by others.

16 18. On information and belief, Adler has been selling the Accused Fuses in the United 17 States since at least 2020 and continuing through the present.

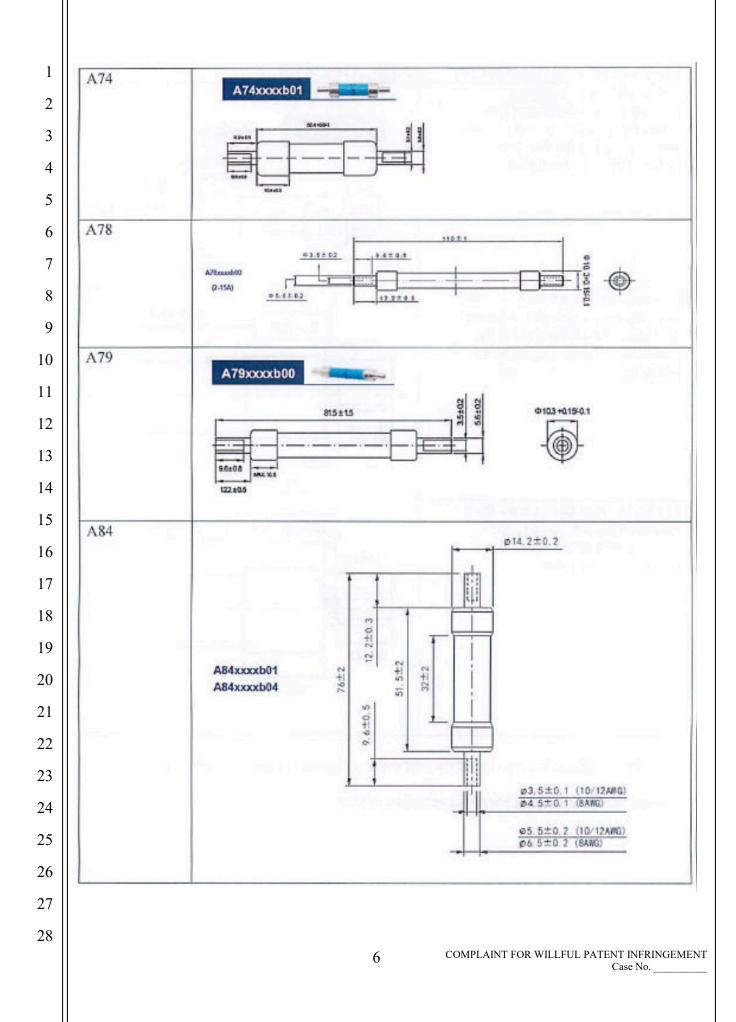
19. In the following claim chart, an illustration from Adler's Data Sheet for the A74 gPV 1500 VDC Fuse 14x51 mm shows how that product infringes at least independent Claim 1 of the '281 Patent:

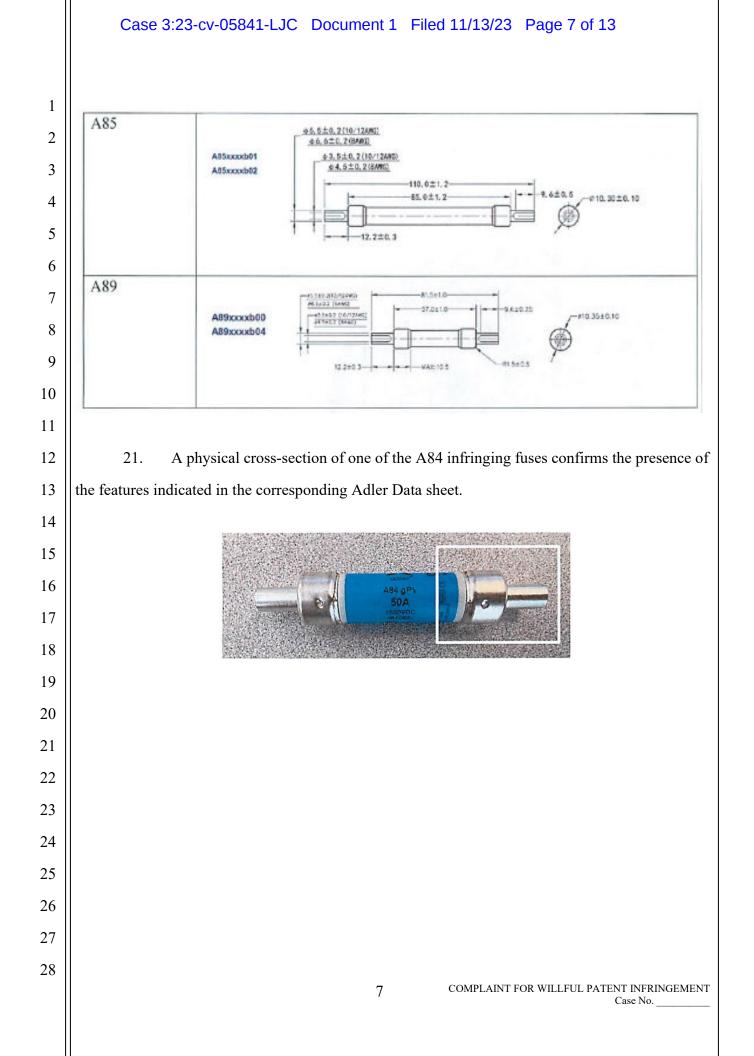
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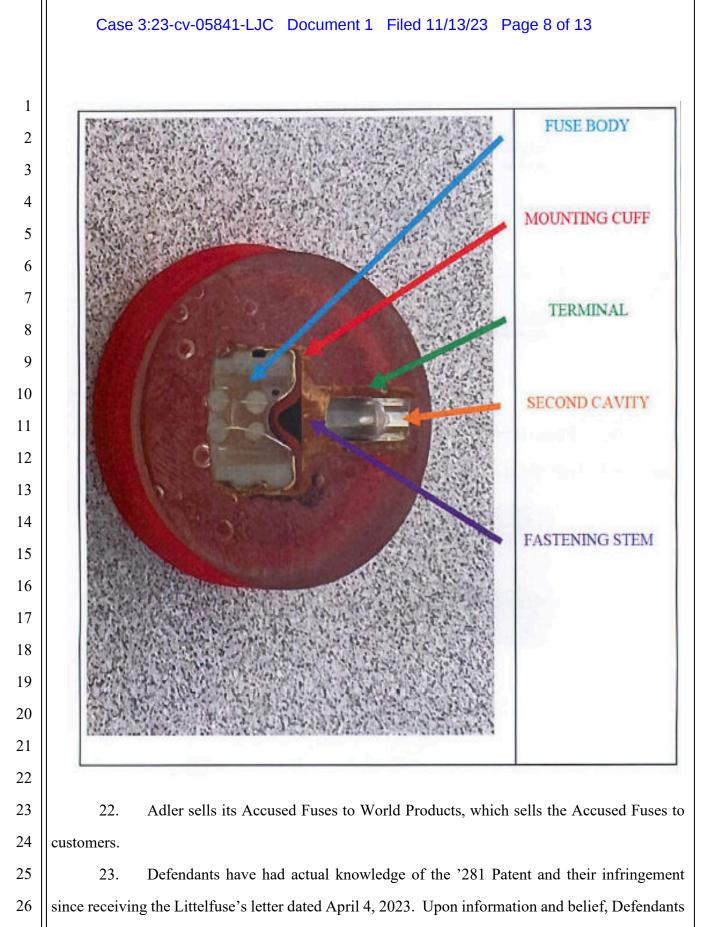


Claim 1 of US Patent No. 9,564,281	Adler's A74 in-line fuse
A fuse end cap comprising:	
a mounting cuff defining a first cavity that receives an end of a fuse body, the end of the fuse body	A74xxxxb01 -
being electrically insulating;	Mounting cuff states states states Tuants Fuse body
a terminal defining a second cavity that receives a conductor, wherein the terminal is crimped about the conductor to retain the conductor within the second cavity; and	119±0.5
a fastening stem that extends from the mounting cuff and into the second cavity of the terminal that receives the conductor.	98/±08 Second cavity 5 Fastening stem 52.4+06/-1
	96 ±08
20. The following chart shows on the Adler Data Sheets for each type of	the common features of the Accused Fuses as indicated fuse:
	5 COMPLAINT FOR WILLFUL PATENT INFRINGEMENT Case No.









27 knew of the '281 Patent since they began marketing and selling the Accused Fuses in the United

28 States and knew since at least April 2022 that the claims of the '281 Patent cover fuses with end 8 COMPLAINT FOR WILLFUL PATENT INFRINGEMENT

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1 || caps that are made of a single piece of metal.

24. Defendants' customers directly infringe the '281 Patent by using the Accused Fuses in the way in which defendants advertised and intended them to be used, which meets the limitations of at least Claims 1 and 10 of the '281 Patent.

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There are no non-infringing uses of the Accused Fuses.

26. Upon information and belief, Defendants have intentionally recommended, encouraged, and promoted infringement of the '281 Patent, and continues to do so, by, among other things, providing and making available documentation that instructs distributors, customers and end users to make and use the Accused Fuses in the only way in which they are intended to be used, which directly infringes the '281 Patent.

27. Because there is no non-infringing use of the Accused Fuses, Defendants know and has known that their customers' and end users' conduct directly infringes the claims of the '281 Patent. Adler thus willfully and deliberately directly infringes and induces infringement of the '281 Patent.

28. Despite this knowledge, Defendants have purposefully sold, and continues to purposefully sell, their infringing Accused Fuses to distributors, customers and end users, in complete disregard of Littelfuse's exclusive patent rights to the '281 Patent technology.

29. Thus, Defendants have intentionally indirectly infringed the '281 Patent, and continues to do so, in violation of 35 U.S.C. §§ 271(b) and (c) by contributing to the infringement of end users and by actively, knowingly and purposefully inducing end users to directly infringe the '281 Patent.

30. Defendants direct and indirect infringement has been and continues to be willful and deliberate because Defendants know, or are willfully and deliberately ignoring that each of their actions constitutes infringement of the '281 Patent, and/or are willfully and deliberately ignoring an objectively high risk that each of their actions constitutes infringement of the '281 Patent.

<u>COUNT I – DIRECT PATENT INFRINGEMENT BY ADLER AND</u> <u>WORLD PRODUCTS</u> (Violation of 35 U.S.C. § 271(a))

31. Littelfuse incorporates by reference herein each of the allegations set forth in 9 COMPLAINT FOR WILLFUL PATENT INFRINGEMENT Case No.

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1 paragraphs 1- 30 above.

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32. On information and belief, Adler and World Products have directly infringed and continue to directly infringe the '281 Patent, under 35 U.S.C. § 271(a), at least by making, importing, distributing, selling, offering for sale and/or using within the United States, the Accused Fuses.

33. On information and belief, and, by way of example only and not limitation, the Accused Fuses meet each limitation of at least claim 1 of the '281 Patent, directly and/or under the doctrine of equivalents, because each comprises: A fuse end cap comprising a mounting cuff defining a first cavity that receives an end of a fuse body, the end of the fuse body being electrically insulating; a terminal defining a second cavity that receives a conductor, wherein the terminal is crimped about the conductor to retain the conductor within the second cavity; and a fastening stem that extends from the mounting cuff and into the second cavity of the terminal that receives the conductor.

34. As a direct and proximate result of Adler and World Products' patent infringement, Littelfuse has suffered and will continue to suffer damages in an amount to be proven at trial.

15 35. Littelfuse has been irreparably harmed by these acts of patent infringement and will
16 continue to be harmed unless Adler and World Products' further acts of patent infringement are
17 restrained and enjoined by order of this Court. Littelfuse has no adequate remedy at law.

36. On information and belief, Adler and World Products' infringement has been and continues to be willful and deliberate because they know, or are willfully and deliberately ignoring that each of their actions constitutes infringement of the '281 Patent, and/or are willfully and deliberately ignoring an objectively high risk that each of their actions constitutes infringement of the '281 Patent.

37. Because Adler and World Products' infringement is willful, Littelfuse is entitled to
recover treble damages and attorneys' fees pursuant to 35 U.S.C. §§ 284 and 285.

<u>COUNT II – INDIRECT PATENT INFRINGEMENT BY ADLER</u> <u>AND WORLD PRODUCTS</u> (Violation of 35 U.S.C. §271(b) and (c))

27 38. Littelfuse incorporates by reference herein each of the allegations set forth in
28 paragraphs 1-37 above.

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 39. Adler and World Products have had actual knowledge of the '281 Patent since at

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 least April 2023.

40. On information and belief, Adler and World Products specifically intended the
Accused Fuses to be made, used, sold and offered for sale in a manner that directly infringes the
'281 Patent.

6 41. On information and belief, Adler and World Products have specific knowledge that
7 the manufacture, distribution, sale, offer for sale and use of the Accused Fuses by its distributors,
8 customers, and end users would directly, or under the doctrine of equivalents, infringe the '281
9 Patent because Adler and World Products specifically touted, and encouraged use of, the "in-line"
10 feature of the Accused Fuses.

42. Accordingly, Adler and World Products have violated 35 U.S.C. § 271(b) by intentionally inducing its distributors, customers and end users to make, use sell and offer for sale the Accused Fuses in the manner described in Adler and World Products' product literature, which directly infringes at least Claims 1 and 10 of the '281 Patent.

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43. The actions of Adler and World Products demonstrate a clear intent to induce its
distributors, customers and end users to directly infringe the '281 Patent, which constitutes a
violation of 35 U.S.C. §271(b) by Adler and World Products.

44. Adler and World Products offer to sell or sell within the United States or import into the United States fuse end caps and fuses constituting a material part of the invention claimed in the '281 Patent, knowing the same to be especially made or especially adapted for use in an infringement of that patent, and not a staple article or commodity of commerce suitable for substantial noninfringing use. Accordingly, Adler and World Products have violated 35 U.S.C. § 271(c).

45. As a direct and proximate result of Defendant's contributory infringement and
inducement of patent infringement by their customers and end users, Littelfuse has suffered and will
continue to suffer damages in an amount to be proven at trial.

46. Littelfuse has been irreparably harmed by these acts of patent infringement and will
continue to be harmed unless Adler and World Products' further acts of contributory infringement
and inducement of patent infringement are restrained and enjoined by order of this Court. Littelfuse

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1 has no adequate remedy at law.

47. On information and belief, Adler and World Products' contributory infringement and
inducement of infringement have been and continue to be willful and deliberate because Adler and
World Products know, or are willfully and deliberately ignoring that each of their actions constitutes
contributory infringement or inducement of infringement of the '281 Patent, and/or is willfully and
deliberately ignoring an objectively high risk that each of its actions constitutes inducement of the
'281 Patent.

48. Because Adler and World Products' contributory infringement and inducement of infringement is willful, Littelfuse is entitled to recover treble damages and attorneys' fees pursuant to 35 U.S.C. §§ 284 and 285.

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RELIEF REQUESTED

WHEREFORE plaintiff Littelfuse, Inc. requests a judgment in its favor and against
defendants Adler and World Products as follows:

- A. That Defendants be adjudged to have directly infringed the '281 Patent, and that such infringement has been willful and deliberate;
- B. That Defendants be adjudged to have indirectly infringed the '281 Patent, and that such indirect infringement has been willful and deliberate;
- C. That Defendants and their officers, principals, agents, attorneys, servants, employees, and all others in active concert or participation with them, and their successors and assigns, be enjoined by preliminary and permanent injunction from directly and indirectly infringing the '281 Patent, including but not limited to making, using, distributing, selling, offering to sell, and importing the Accused Fuses into the United States;
- D. That Littelfuse be awarded damages, including, as appropriate, a reasonable royalty and/or lost profits and price erosion damages under 35 U.S.C. § 284, adequate to compensate it for Defendants' infringement of the '281 Patent, in an amount to be proven at trial, together with interest and costs as fixed by the Court;

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1 2	E.	That Littelfuse be awarded treble damages under 35 U.S.C. § 284 for Defendants' willful infringement;	
3	F.	That this case be declared an exceptional case within the meaning of 35 U.S.C. § 285	
4		and that Littelfuse be awarded the attorneys' fees, costs, and expenses that it incurs	
5		prosecuting this action;	
6	G.	That Littelfuse be awarded prejudgment interest; and	
7	H.	That this Court award such other and further equitable relief as it deems proper.	
8	DEMAND FOR JURY TRIAL		
9	Littelfuse hereby demands trial by jury for all causes of action, claims, or issues in this		
10	action that are triable as a matter of right to a jury.		
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12	Dated: Nove	Ember 13, 2023 FISH & RICHARDSON P.C.	
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14		By: <u>/s/ Olivia T. Nguyen</u>	
15		Olivia T. Nguyen	
16		Counsel for Plaintiff LITTELFUSE, INC.	
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28		13 COMPLAINT FOR WILLFUL PATENT INFRINGEMENT	
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