	Case 3:17-cv-05001 Document 1 Fil	ed 08/28/17 Page 1 of 8				
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10	UNITED STATES DISTRICT COURT					
11	NORTHERN DISTRICT OF CALIFORNIA					
12	SAN FRANCISCO DIVISION					
13	TSMC NORTH AMERICA and TAIWAN	Case No. 3:17-cv-05001				
14	SEMICONDUCTOR MANUFACTURING COMPANY LIMITED,	COMPLAINT FOR DECLARATORY				
15	Plaintiffs,	RELIEF				
16	v.	DEMAND FOR JURY TRIAL				
17	URI COHEN,					
18	Defendant.					
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		ECLARATORY RELIEF				
	Case No. 3:17-cv-05001					

Plaintiffs TSMC North America and Taiwan Semiconductor Manufacturing Company Limited complain against Defendant Uri Cohen as follows:

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INTRODUCTION

On May 5, 2017, Dr. Uri Cohen ("Cohen" or "Defendant") sued Taiwan
 Semiconductor Manufacturing Company Limited ("TSMC Ltd.") and TSMC North America
 ("TSMC NA") (collectively "Plaintiffs" or "TSMC"), along with Apple, Inc. and various Huawei
 entities, in the U.S. District Court for the Eastern District of Texas ("Cohen's ED Texas
 Complaint"). Cohen's ED Texas Complaint alleges infringement of four patents over a limited
 aspect of semiconductor manufacturing technology based on a narrow aspect of chips
 manufactured by TSMC Ltd. for Apple, the Huawei entities, and other unnamed customers.

Seventeen days later, the U.S. Supreme Court issued its opinion in *TC Heartland LLC v. Kraft Foods Group Brands LLC*, U.S. (Slip Op. May 22, 2017), which clarified
 venue rules in patent cases. As a result, Cohen's lawsuit against TSMC NA could not lawfully
 remain in the Eastern District of Texas.

Recognizing the fatal venue problems with Cohen's ED Texas Complaint, on
 August 24, 2017, Cohen voluntarily dismissed TSMC NA and Apple, Inc. from the ED Texas
 case. Both dismissals were without prejudice, and purport to expressly reserve the right for Cohen
 to sue TSMC NA and Apple again for the same alleged infringement. Having been already sued
 by Cohen and dismissed from that suit with no assurance that it will not be sued in the future,
 TSMC NA has a reasonable apprehension of suit by Cohen.

4. On August 28, 2017, Cohen filed an amended complaint in the U.S. District Court
for the Eastern District of Texas that continued to name TSMC Ltd. and various Huawei entities
as defendants ("Cohen's Amended ED Texas Complaint"). Cohen's Amended ED Texas
Complaint alleges materially identical infringement allegations as Cohen's ED Texas Complaint,
in that Cohen alleges infringement of the same four patents over the same limited aspect of
semiconductor manufacturing technology based on the same narrow aspect of chips manufactured
by TSMC Ltd. for Apple, the Huawei entities, and other unnamed customers.

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1	5. TSMC Ltd. will move to transfer the claims against TSMC Ltd. in Cohen's			
2	Amended ED Texas Complaint shortly. TSMC files this complaint so that the litigation may			
3	proceed expeditiously in one venue that can resolve all material disputes between the parties, and			
4	so that TSMC may demonstrate that it does not infringe the Cohen patents.			
5	PARTIES			
6	6. Plaintiff TSMC Ltd. is a Taiwanese corporation and is headquartered at No. 8, Li-			
7	Hsin Rd. VI, Hsinchu, Taiwan 300, R.O.C.			
8	7. Plaintiff TSMC NA is a California corporation with its headquarters and principal			
9	place of business at 2851 Junction Avenue, San Jose, California 95134. TSMC NA is a wholly-			
10	owned subsidiary of TSMC Ltd.			
11	8. Defendant Cohen is a United States citizen who, on information and belief, resides			
12	at 4147 Dake Ave., Palo Alto, CA 94306.			
13	JURISDICTION			
14	9. This Court has subject-matter jurisdiction over this action pursuant to 28 U.S.C.			
15	§§ 1331 and 1338(a) because Plaintiffs' claims arise under the patent laws of the United States,			
16	35 U.S.C. § 1, et seq., and under the Federal Declaratory Judgment Act, 28 U.S.C. §§ 2201 and			
17	2202. As alleged more fully below, there is a substantial controversy of sufficient immediacy and			
18	reality between Plaintiffs and Defendant regarding non-infringement of the patents-in-suit to			
19	warrant the issuance of a declaratory judgment.			
20	10. This Court has personal jurisdiction over Cohen because he is a resident of			
21	California, and upon information and belief, has continuous and systematic contacts with the			
22	State of California.			
23	VENUE			
24	11. Venue is proper under 28 U.S.C. § 1391(b) because Cohen resides in this District.			
25	INTRADISTRICT ASSIGNMENT			
26	12. Pursuant to Local Rule 3-2(c), this case is subject to district-wide assignment			
27	because it is an Intellectual Property Action.			
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	2 COMPLAINT FOR DECLARATORY DELIFE			
	COMPLAINT FOR DECLARATORY RELIEF Case No. 3:17-cv-05001			

BACKGROUND AND NATURE OF THE ACTION

13. TSMC Ltd., based in Hsinchu, Taiwan, with 41,000 employees, pioneered the 2 foundry model that revolutionized the semiconductor and electronics industries and enabled the 3 manufacturing of made-to-specification silicon semiconductor wafers. For years, TSMC has been 4 recognized as the world's most advanced and most successful provider of semiconductor 5 fabrication services for customers who design their own circuit layouts, but who either lack their 6 own semiconductor manufacturing expertise and facilities, or simply wish to use TSMC's 7 leading-edge fabrication services and technology to manufacture wafers. Each year, TSMC Ltd. 8 spends billions of dollars on research and development related to semiconductor technology, and 9 some of the most advanced semiconductor manufacturing capability in the world. TSMC's efforts 10 have also resulted in a world-class patent portfolio, with thousands of patents awarded in the 11 United States and worldwide every year, and a total of almost 30,000 patents to date. 12

13 14. TSMC NA, a wholly owned subsidiary of TSMC Ltd., is the exclusive sales,
14 marketing, and customer-service entity for TSMC Ltd. in North America. TSMC NA does not
15 manufacture wafers. Almost all of TSMC NA's employees operate out of its headquarters in San
16 Jose, California.

17 15. Defendant Cohen has alleged that he is the owner of the entire right, title, and
interest in U.S. Patent No. 6,518,668 ("the '668 patent"), entitled "Multiple Seed Layers for
Metallic Interconnects"; U.S. Patent No. 6,924,226 ("the '226 patent"), entitled "Methods for
Making Multiple Seed Layers for Metallic Interconnects"; U.S. Patent No. 7,199,052 ("the '052
patent"), entitled "Seed Layers for Metallic Interconnects"; and U.S. Patent No. 7,282,445 ("the
'445 patent"), entitled "Multiple Seed Layers for Interconnects" (collectively the "patents-insuit"). The patents-in-suit are attached hereto as Exhibits A-D.

16. Cohen has never, on information and belief, manufactured, sold, offered for sale,
or imported any product or service claimed by the patents-in-suit. On information and belief,
Cohen has only ever used the patents-in-suit to threaten litigation and thereby obtain licensing
revenue.

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Case 3:17-cv-05001 Document 1 Filed 08/28/17 Page 5 of 8

1 17. Cohen's ED Texas Complaint alleged that Plaintiffs directly infringe the patents-2 in-suit by selling and/or offering for sale allegedly infringing products. Cohen's ED Texas 3 Complaint also alleged that Plaintiffs induce infringement of the patents-in-suit by (i) providing 4 advertising, sales, and/or technical materials that contain instructions, directions, suggestions 5 and/or invitations for allegedly infringing products and (ii) collaborating with customers on the 6 design of the allegedly infringing products. Cohen's ED Texas Complaint sought, among other 7 forms of relief, damages and attorneys' fees. Cohen's Amended ED Texas Complaint makes 8 identical allegations as to TSMC Ltd.

9 18. Cohen's ED Texas Complaint alleged that TSMC infringes the patents-in-suit at
10 the 20nm and 16nm process nodes through use of Applied Materials, Inc.'s Endura Platform and
11 Endura Volta system. Cohen's Amended ED Texas Complaint makes identical allegations as to
12 TSMC Ltd. However, contrary to Cohen's allegations, TSMC's use of the Endura Platform and
13 Endura Volta system in its 20nm and 16nm process nodes do not infringe the patents-in-suit for at
14 least the reason that cobalt cannot comprise the "seed layer" that is claimed in the patents-in-suit.

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FIRST CAUSE OF ACTION

(Declaratory Judgment of Non-Infringement of U.S. Patent No. 6,518,668)

17 19. Plaintiffs incorporate by reference paragraphs 1 through 18, inclusive, as though18 fully set forth in this paragraph.

20. Cohen's ED Texas Complaint alleged that Plaintiffs infringe at least claim 26 of
the '668 patent. Cohen's Amended ED Texas Complaint alleges that TSMC Ltd. infringes at least
claim 26 of the '668 patent.

21. Plaintiffs have never infringed and are not currently infringing – whether directly
or indirectly, contributorily or by inducement, literally or otherwise – any claims of the '668
patent, including claim 26, because, among other reasons, the cobalt layer identified by Cohen
does not satisfy the "first seed layer" element claimed in the '668 patent.

26 22. Accordingly, an actual and justiciable controversy has arisen and exists between
27 Plaintiffs and Cohen relating to the non-infringement of at least claim 26 of the '668 patent.
28 Plaintiffs seek a judicial determination and declaration of the respective rights and duties of the

1	parties herein. Such a determination and declaration is necessary and appropriate at this time to			
2	enable the parties to ascertain their respective rights and duties.			
3	SECOND CAUSE OF ACTION			
4	(Declaratory Judgment of Non-Infringement of U.S. Patent No. 6,924,226)			
5	23. Plaintiffs incorporate by reference paragraph 1 through 18, inclusive, as though			
6	fully set forth in this paragraph.			
7	24. Cohen's ED Texas Complaint alleged that Plaintiffs infringe at least claim 1 of the			
8	'226 patent. Cohen's Amended ED Texas Complaint alleges that TSMC Ltd. infringes at least			
9	claim 1 of the '226 patent.			
10	25. Plaintiffs have never infringed and are not currently infringing – whether directly			
11	or indirectly, contributorily or by inducement, literally or otherwise – any claims of the '226			
12	patent, including claim 1, because, among other reasons, the cobalt layer identified by Cohen			
13	does not satisfy the "substantially conformal seed layer" element claimed in the '226 patent.			
14	26. Accordingly, an actual and justiciable controversy has arisen and exists between			
15	Plaintiffs and Cohen relating to the non-infringement of at least claim 1 of the '226 patent.			
16	Plaintiffs seek a judicial determination and declaration of the respective rights and duties of the			
17	parties herein. Such a determination and declaration is necessary and appropriate at this time to			
18	enable the parties to ascertain their respective rights and duties.			
19	THIRD CAUSE OF ACTION			
20	(Declaratory Judgment of Non-Infringement of U.S. Patent No. 7,199,052)			
21	27. Plaintiffs incorporate by reference paragraph 1 through 18, inclusive, as though			
22	fully set forth in this paragraph.			
23	28. Cohen's ED Texas Complaint alleged that Plaintiffs infringe at least claim 4 of the			
24	'052 patent. Cohen's Amended ED Texas Complaint alleges that TSMC Ltd. infringes at least			
25	claim 4 of the '052 patent.			
26	29. Plaintiffs have never infringed and are not currently infringing – whether directly			
27	or indirectly, contributorily or by inducement, literally or otherwise – any claims of the '052			
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	COMPLAINT FOR DECLARATORY RELIEF Case No. 3:17-cv-05001			

Case 3:17-cv-05001 Document 1 Filed 08/28/17 Page 7 of 8

1	patent, including claim 4, because, among other reasons, the cobalt layer identified by Cohen			
2	does not satisfy the "first seed layer" element claimed in the '052 patent.			
3	30. Accordingly, an actual and justiciable controversy has arisen and exists between			
4	Plaintiffs and Cohen relating to the non-infringement of at least claim 4 of the '052 patent.			
5	Plaintiffs seek a judicial determination and declaration of the respective rights and duties of the			
6	parties herein. Such a determination and declaration is necessary and appropriate at this time to			
7	enable the parties to ascertain their respective rights and duties.			
8	FOURTH CAUSE OF ACTION			
9	(Declaratory Judgment of Non-Infringement of U.S. Patent No. 7,282,445)			
10	31. Plaintiffs incorporate by reference paragraph 1 through 18, inclusive, as though			
11	fully set forth in this paragraph.			
12	32. Cohen's ED Texas Complaint alleged that Plaintiffs infringe at least claim 18 of			
13	the '445 patent. Cohen's Amended ED Texas Complaint alleges that TSMC Ltd. infringes at least			
14	claim 18 of the '445 patent.			
15	33. Plaintiffs have never infringed and are not currently infringing – whether directly			
16	or indirectly, contributorily or by inducement, literally or otherwise – any claims of the '445			
17	patent, including claim 18, because, among other reasons, the cobalt layer identified by Cohen			
18	does not satisfy the "CVD first seed layer" element claimed in the '445 patent.			
19	34. Accordingly, an actual and justiciable controversy has arisen and exists between			
20	Plaintiffs and Cohen relating to the non-infringement of at least claim 18 of the '445 patent.			
21	Plaintiffs seek a judicial determination and declaration of the respective rights and duties of the			
22	parties herein. Such a determination and declaration is necessary and appropriate at this time to			
23	enable the parties to ascertain their respective rights and duties.			
24	PRAYER FOR RELIEF			
25	WHEREFORE, Plaintiffs TSMC North America and Taiwan Semiconductor			
26	Manufacturing Company Ltd. request that this Court enter a judgment in its favor and against			
27	Defendant Uri Cohen as follows:			
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	COMPLAINT FOR DECLARATORY RELIEF Case No. 3:17-cv-05001			

	Case	3:17-cv-05001	Document 1	Filed 08/	28/17	Page 8 of 8
1	А.	A declaration	that Plaintiffs ha	ave not inf	ringed,	willfully infringed, induced others
2	to infringe, o	to infringe, or contributed to the infringement of any claim of the '668 patent;				
3	В.	A declaration	that Plaintiffs ha	ave not inf	ringed, v	willfully infringed, induced others
4	to infringe, or contributed to the infringement of any claim of the '226 patent;					
5	C.	A declaration	that Plaintiffs ha	ave not inf	ringed,	willfully infringed, induced others
6	to infringe, or contributed to the infringement of any claim of the '052 patent;					
7	D.	A declaration	that Plaintiffs ha	ave not inf	ringed,	willfully infringed, induced others
8	to infringe, or contributed to the infringement of any claim of the '445 patent;					
9	E.	For costs of su	it incurred here	in;		
10	F.	A declaration	that Cohen's pu	rsuit of thi	s case is	s exceptional under 35 U.S.C.
11	§ 285; and					
12	G.	For such other	relief as the Co	ourt deems	just and	l proper.
13			J	URY DEN	/IAND	
14	Plaint	tiffs hereby dem	and a jury trial f	for non-infi	ringeme	ent of the patents-in-suit and all
15	other issues s	o triable.				
16	Dated: Augu	ıst 28, 2017		K	EKER,	VAN NEST & PETERS LLP
17						
18						<u>L. Ferrall</u> FERRALL
19				А	SHOK	RAMANI D A. BAYLEY
20						VILLIAMS

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COMPLAINT FOR DECLARATORY RELIEF Case No. 3:17-cv-05001