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10		
11		DISTRICT COURT
12	NORTHERN DISTRI	CT OF CALIFORNIA
13		
14	HITACHI KOKUSAI ELECTRIC INC., a	Case No. 5:17-cv-6880
15	Japanese corporation,	COMPLAINT FOR PATENT
16	Plaintiff,	INFRINGEMENT
17	VS.	DEMAND FOR JURY TRIAL
18	ASM INTERNATIONAL, N.V., a Netherlands corporation, and ASM AMERICA, INC., a	
19	Delaware corporation,	
20	Defendants.	
21		_
22		Plaintiff" or "HiKE") for its complaint against
23	Defendants ASM America, Inc. and ASM Intern	ational, N.V. ("Defendants" or "ASM"), hereby
24	alleges as follows:	
25		<u>TIES</u>
26		and existing under the laws of Japan with its
27	principal place of business in Tokyo, Japan.	ASM Ex. 1011 IPR Petition - USP 7,808,396
28 Morgan, Lewis & Bockius LLP Attorneys at Law Silicon Valley		PLAINTIFF HITACHI KOKUSAI ELECTRIC INC.'S COMPLAINT FOR PATENT INFRINGEMENT

- Defendant ASM International, N.V. is a corporation organized and existing under
 the laws of the Netherlands with its principal place of business at Versterkerstraat 8, 1332 AP
 Almere, Netherlands.
- 3. Defendant ASM America, Inc. is a Delaware corporation, with its principal place
 of business at 3340 East University Drive, Phoenix, AZ 85034, and qualified to do business in the
 State of California, with an office located at 97 East Brokaw Road, Suite 100, San Jose,
- California, 95112. On information and belief, Defendant ASM America, Inc. is a wholly-owned
 subsidiary of ASM International, N.V.
- 9 4. On information and belief, Defendants jointly make, use, sell, offer for sale or
 10 import certain semiconductor process equipment for wafer processing, including the Pulsar XP
 11 ALD system, EmerALD XP ALD system, XP8 system, A412 batch vertical furnace system,
 12 A400 batch vertical furnace system, Intrepid XP epitaxy product, Epsilon 2000 single wafer
 13 epitaxy system, and Epsilon 3200 single wafer epitaxy system (the "Accused Products").

14	TECHNOLOGY-	PRODUCT MATRIX		
15 16	DEPOSITION APPLICATION	ASMI PRODUCT PLATFORM	ASMI PRODUCTS	PROCESS APPLICATION
17	ALD	XP1	Pulsar XP ALD system EmerALD XP ALD system	High-k gate dielectric Metal gate electrode
18	PEALD	XP81	Eagle XP8 PEALD system	Spacer for multipatterning Gate spacer Etch stop
19 20	PECVD	XP8 ¹	Dragon XP8 PECVD system	Inter-layer dielectric Silicon nitride
21 22	Diffusion Oxidation LPCVD ALD	Advance Series	A400 batch vertical furnace system A412 batch vertical furnace system	Furnace: - Diffusion, oxidation - Polysilicon - Silicon nitride
23	Epitaxy	XP1	Intrepid XP epitaxy	Silicon channel Strain laver
24		Epsilon	Epsilon 2000 single wafer epitaxy system	
25			Epsilon 3200 single wafer epitaxy system	
26				
27				

ASM, *Technology – Product Matrix*, http://www.asm.com/solutions/products (last accessed Nov.

1	30, 2017).
2	5. Defendants' actions have caused HiKE harm, and will cause further harm to HiKE
3	if Defendants' actions continue. In addition, Defendants' knowing acts of infringement will
4	frustrate HiKE's continued, strong business relationships, contracts, and potential contracts, with
5	resulting lost sales and profits, and otherwise are or will case substantial harm to HiKE's
6	business.
7	6. As a result of Defendants' actions, HiKE brings this lawsuit to protect its patented
8	innovation and its reputation as the world-wide leader in the semiconductor manufacturing
9	system industry.
10	JURISDICTION AND VENUE
11	7. This is an action for patent infringement arising under the Patent Laws of the
12	United States, 35 U.S.C. § 1 et seq. The Court has subject matter jurisdiction over this matter
13	pursuant to 28 U.S.C. §§ 1331 and 1138(a).
14	8. On information and belief, Defendants are subject to the personal jurisdiction of
15	this Court because they are doing and have done substantial business in this District, including
16	business relating to the sale and distribution of the Accused Products. Defendants have
17	continuous and systematic business contacts with the State of California and either directly or
18	through subsidiaries and intermediaries conduct business in California by shipping, distributing,
19	offering for sale, selling, advertising (including the provision of an interactive web page—e.g.,
20	http://www.asm.com/solutions/products) the Accused Products in the State of California and the
21	Northern District of California. Defendants also directly or through their subsidiaries and
22	intermediaries conduct business in California through their sales and service office located at 97
23	East Brokaw Road, Suite 100, San Jose, California, 95112. Defendants directly or through their
24	subsidiaries and intermediaries have purposefully and voluntarily placed the Accused Products
25	into the stream of commerce with the intention and expectation that the Accused Products will be
26	purchased and used by customers in the Northern District of California. Therefore, the exercise
27	of jurisdiction over Defendants is proper under the applicable jurisdictional statutes and would
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1	not offend traditional notions of fair play and substantial justice.
2	9. Venue is proper in this District pursuant to 28 U.S.C. §§ 1391(a), 1391(c), and/or
3	1400(b) because, among other reasons, Defendants are subject to personal jurisdiction in this
4	District and have committed acts of infringement in this District.
5	INTRADISTRICT ASSIGNMENT
6	10. Pursuant to Local Rules 3-2(c) and (e), Intellectual Property Actions are assigned
7	on a district-wide basis. Further, a substantial part of the events giving rise to the claims alleged
8	in this Complaint occurred and are occurring in the city of San Jose, CA and the county of Santa
9	Clara because ASM America, Inc.'s sales and service office is located in San Jose, CA.
10	BACKGROUND
11	11. HiKE is a world leader in the design, manufacture, installation, and maintenance
12	of batch and single wafer semiconductor manufacturing systems and equipment.
13	12. HiKE is recognized as a pioneer in the field of thermal processing technology for
14	semiconductor wafers, and HiKE furnaces are found in the majority of semiconductor fabrication
15	plants, commonly known as "fabs," around the world.
16	13. To continually improve its product offerings for its customers, HiKE invests
17	substantial resources in research and development of semiconductor manufacturing systems,
18	including the development of products having improved fabrication processing time, having
19	improved productivity, and resulting in product of superior quality. Over the years, HiKE has
20	received accolades for its role as an innovative leader in this field of technology and has received
21	numerous seminal and valuable patents for its inventions. HiKE relies upon its patents to
22	maintain its reputation as a leader in semiconductor manufacturing systems technology and
23	protect its customers from inferior devices that may result in lesser quality processing and
24	production.
25	14. HiKE's patents in this field include U.S. Patent Nos. 7,033,937 ("the '937
26	patent"), 6,576,063 ("the '063 patent"), 7,808,396 ("the '396 patent"), RE43,023 ("the '023
27	patent"), 6,744,018 ("the '018 patent"), 8,409,988 ("the '988 patent"), and 9,318,316 ("the '316
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patent") (collectively, "the Asserted Patents").

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The Patents-in-Suit

15. On April 25, 2006, the United States Patent and Trademark Office ("USPTO")
duly and legally issued the '937 patent, which is titled "Apparatus and Method for Use in
Manufacturing a Semiconductor Device." The '937 patent has been assigned to HiKE. HiKE
holds all right, title, and interest in the '937 patent, including the right to collect and receive
damages for past, present, and future infringement of the '937 patent.

8 16. On June 10, 2003, the USPTO duly and legally issued the '063 patent, which is
9 titled "Apparatus and Method for Use in Manufacturing a Semiconductor Device." The '063
10 patent has been assigned to HiKE. HiKE holds all right, title, and interest in the '063 patent,
11 including the right to collect and receive damages for past, present, and future infringement of the
12 '063 patent.

13 17. On October 5, 2010, the USPTO duly and legally issued the '396 patent, which is
14 titled "Substrate Processing Apparatus." The '396 patent has been assigned to HiKE. HiKE
15 holds all right, title, and interest in the '396 patent, including the right to collect and receive
16 damages for past, present, and future infringement of the '396 patent.

17 18. On December 13, 2011, the USPTO duly and legally reissued U.S. Patent No.
18 6,641,350 as the '023 patent, which is titled "Dual Loading Port Semiconductor Processing
19 Equipment." The '023 patent has been assigned to HiKE. HiKE holds all right, title, and interest
20 in the '023 patent, including the right to collect and receive damages for past, present, and future
21 infringement of the '023 patent.

19. On June 1, 2004, the USPTO duly and legally issued the '018 patent, which is
titled "Dual Loading Port Semiconductor Processing Equipment." The '018 patent has been
assigned to HiKE. HiKE holds all right, title, and interest in the '018 patent, including the right
to collect and receive damages for past, present, and future infringement of the '018 patent.

26 20. On April 2, 2013, the USPTO duly and legally issued the '988 patent, which is
27 titled "Method of Manufacturing Semiconductor Device and Substrate Processing Apparatus."

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1	The '988 patent has been assigned to HiKE. HiKE holds all right, title, and interest in the '988
2	patent, including the right to collect and receive damages for past, present, and future
3	infringement of the '988 patent.
4	21. On April 19, 2016, the USPTO duly and legally issued the '316 patent, which is
5	titled "Method of Manufacturing Semiconductor Device, Method of Processing Substrate and
6	Substrate Processing Apparatus for Forming Thin Film Containing at Least Two Different
7	Elements." The '316 patent has been assigned to HiKE. HiKE holds all right, title, and interest
8	in the '316 patent, including the right to collect and receive damages for past, present, and future
9	infringement of the '316 patent.
10	<u>COUNT I</u>
11	Infringement of the '937 Patent
12	22. HiKE incorporates paragraphs 1-21 above by reference.
13	23. HiKE is the owner, by assignment, of all rights, title and interest in the '937 patent,
14	including the right to recover damages for past infringement.
15	24. By making, using, importing, selling, and/or offering for sale one or more of the
16	Accused Products, including but not limited to the Pulsar XP ALD system, Defendants have
17	infringed and continue to infringe the '937 patent in this District and throughout the United
18	States.
19	25. For example, the Pulsar XP ALD system infringes at least claim 10 of the '937
20	patent because it practices a semiconductor device manufacturing method that includes the steps
21	of (a) generating a plasma in at least one plasma source arranged outside a reaction chamber
22	where the reaction chamber has at least one substrate to be processed; and (b) supplying and
23	removing active species generated by the plasma source into and from the reaction chamber
24	through a supply port arranged at a side of the reaction chamber and an exhaust port arranged at a
25	substantially opposite side to the supply port where the supply port and the exhaust port are
26	positioned substantially at a same level, and the active species flows in a substantially horizontal
27	direction from the supply port to the exhaust port.
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26. Defendants have been aware of the '937 patent and its infringement since at least
 July 10, 2012.

3 27. On information and belief, Defendants have also induced and/or are inducing the 4 infringement of the '937 patent by making, using, importing, offering for sale, and/or selling one 5 or more of the Accused Products, including but not limited to the Pulsar XP ALD system. At 6 least this product, as provided by Defendants to their customers and used as intended and 7 instructed, infringes the '937 patent. Defendants sold and/or offered for sale one or more of the 8 Accused Products, including but not limited to the Pulsar XP ALD system, and are continuing to 9 do so, to customers with the specific intent to actively encourage them to use one or more of the 10 Accused Products, including but not limited to the Pulsar XP ALD system in the United States in 11 a manner that Defendants know to be infringing.

12 28. On information and belief, Defendants have also contributed to and/or are 13 contributing to the infringement of the '937 patent by making, using, importing, offering for sale, 14 and/or selling one or more of the Accused Products, including but not limited to the Pulsar XP 15 ALD system. Defendants have made and/or sold such products with knowledge that they are 16 especially designed for use in a patented system and/or apparatus for use in a patented process 17 and are not a staple article of commerce suitable for substantial non-infringing use. For example, 18 among other things, on information and belief, Defendants actively and knowingly sell such 19 products and provide customer support, installation and instruction material, and other 20 documentation to customers for such products' use as a component of a patented system and/or 21 apparatus for use in a patented process. On information and belief, Defendants' customers have 22 used and continue to use such products in the United States in this manner and infringed the '937 23 patent.

24 29. As a result of Defendants' infringement of the '937 patent, HiKE has suffered and
25 continues to suffer damages. HiKE is entitled to recover from Defendants the damages adequate
26 to compensate for such infringement in an amount to be determined at trial.

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Defendants' acts of infringement of the '937 patent herein have been committed

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1	and are being committed with full knowledge of HiKE's rights in the patent. On information and
2	belief, Defendants have acted and are continuing to act despite knowing that their actions
3	constituted direct and/or indirect infringement of a valid patent, and they knew or should have
4	known of this infringement since at least July 10, 2012. Defendants' acts constitute willful and
5	deliberate infringement, entitling HiKE to enhanced damages under 35 U.S.C. § 284 and
6	reasonable attorneys' fees and costs.
7	31. Defendants' acts of infringement have caused and will continue to cause
8	irreparable harm to HiKE for which there is no adequate remedy at law, thereby entitling HiKE to
9	injunctive relief.
10	<u>COUNT II</u>
11	Infringement of the '063 Patent
12	32. HiKE incorporates paragraphs 1-31 above by reference.
13	33. HiKE is the owner, by assignment, of all rights, title and interest in the '063 patent,
14	including the right to recover damages for past infringement.
15	34. By making, using, importing, selling, and/or offering for sale one or more of the
16	Accused Products, including but not limited to the Pulsar XP ALD system, Defendants have
17	infringed and continue to infringe the '063 patent in this District and throughout the United
18	States.
19	35. For example, the Pulsar XP ALD system infringes at least claim 10 of the '063
20	patent because it meets the claim 10's limitations of a semiconductor manufacturing apparatus
21	that includes (a) a reaction chamber in which one or more substrates are disposed for processing;
22	(b) a plasma source arranged outside of and in proximity to the reaction chamber; (c) an active
23	species supply port for providing active species generated by the plasma source to the reaction
24	chamber and arranged at a side of the reaction chamber; and (d) an exhaust port at a substantially
25	opposite side to the active species supply port; (e) where the active species flow substantially
26	parallel to the surface of each substrate from an edge in proximity to the active species supply
27	port to another edge in proximity to the exhaust port; and (f) where the reaction chamber includes
28 &	PLAINTIFF HITACHI KOKUSAI 8 ELECTRIC INC.'S COMPLAINT FOR PATENT INFRINGEMENT

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two openings for introducing and removing the active species into and from the reaction chamber,
 the openings are positioned substantially at a same level, and the active species flow in a
 substantially horizontal direction from one opening to the other.

4 36. Defendants have been aware of the '063 patent and its infringement since at least
5 July 10, 2012.

6 37. On information and belief, Defendants have also induced and/or are inducing the 7 infringement of the '063 patent by making, using, importing, offering for sale, and/or selling one 8 or more of the Accused Products, including but not limited to the Pulsar XP ALD system. 9 Defendants sold and/or offered for sale one or more of the Accused Products, including but not 10 limited to the Pulsar XP ALD system, and are continuing to do so, to customers with the specific 11 intent to actively encourage them to use at least one or more of the Accused Products, including 12 but not limited to the Pulsar XP ALD system in the United States in a manner that Defendants 13 know to be infringing.

14 38. On information and belief, Defendants have also contributed to and/or are 15 contributing to the infringement of the '063 patent by making, using, importing, offering for sale, 16 and/or selling one or more of the Accused Products, including but not limited to the Pulsar XP 17 ALD system. Defendants have made and/or sold such products with knowledge that they are 18 especially designed for use in a patented system and/or apparatus for use in a patented process 19 and are not a staple article of commerce suitable for substantial non-infringing use. For example, 20 among other things, on information and belief, Defendants actively and knowingly sell such 21 products and provide customer support, installation and instruction material, and other 22 documentation to customers for such products' use as a component of a patented system and/or 23 apparatus for use in a patented process. On information and belief, Defendants' customers have 24 used and continue to use such products in the United States in this manner and infringed the '063 25 patent.

39. As a result of Defendants' infringement of the '063 patent, HiKE has suffered and
continues to suffer damages. HiKE is entitled to recover from Defendants the damages adequate

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1	to compensate for such infringement in an amount to be determined at trial.
2	40. Defendants' acts of infringement of the '063 patent herein have been committed
3	and are being committed with full knowledge of HiKE's rights in the patent. On information and
4	belief, Defendants have acted and are continuing to act despite knowing that their actions
5	constituted direct and/or indirect infringement of a valid patent, and they knew or should have
6	known of this infringement since at least July 10, 2012. Defendants' acts, constitute willful and
7	deliberate infringement, entitling HiKE to enhanced damages under 35 U.S.C. § 284 and
8	reasonable attorneys' fees and costs.
9	41. Defendants' acts of infringement have caused and will continue to cause
10	irreparable harm to HiKE for which there is no adequate remedy at law, thereby entitling HiKE to
11	injunctive relief.
12	<u>COUNT III</u>
13	Infringement of the '396 Patent
14	42. HiKE incorporates paragraphs 1-41 above by reference.
15	43. HiKE is the owner, by assignment, of all rights, title and interest in the '396 patent,
16	including the right to recover damages for past infringement.
17	44. By making, using, importing, selling, and/or offering for sale one or more of the
18	Accused Products, including but not limited to the Intrepid XP epitaxy system, Defendants have
19	infringed and continue to infringe the '396 patent in this District and throughout the United
20	States.
21	45. For example, the Intrepid XP epitaxy system infringes at least claim 9 of the '396
22	patent because it contains a substrate processing apparatus that includes a signal tower and a
23	buzzer as a plurality of signal indicators for indicating a running state, consisting of (a) a display
24	unit that displays operation conditions, which are not set independently and in advance, that
25	correspond to the signal tower and the buzzer, where (b) the display unit sets the sound of the
26	buzzer as the operational condition of the signal tower.
27	46. Defendants have been aware of the '396 patent and its infringement since at least
28 IS & P	PLAINTIFF HITACHI KOKUSAI 10 ELECTRIC INC.'S COMPLAINT FOR PATENT INFRINGEMENT

July 10, 2012.

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2 47. On information and belief, Defendants have also induced and/or are inducing the 3 infringement of the '396 patent by making, using, importing, offering for sale, and/or selling one 4 or more of the Accused Products, including but not limited to the Intrepid XP epitaxy system. 5 Such products, as provided by Defendants to their customers and used as intended and instructed, 6 infringe the '396 patent. Defendants sold and/or offered for sale one or more of the Accused 7 Products, including but not limited to the Intrepid XP epitaxy system, and are continuing to do so, 8 to customers with the specific intent to actively encourage them to one or more of the Accused 9 Products, including but not limited to the Intrepid XP epitaxy system in the United States in a 10 manner that Defendants know to be infringing.

11 48. On information and belief, Defendants have also contributed to and/or are 12 contributing to the infringement of the '396 patent by making, using, importing, offering for sale, 13 and/or selling one or more of the Accused Products, including but not limited to the Intrepid XP 14 epitaxy system. Defendants have made and/or sold such products with knowledge that they are 15 products are especially designed for use in a patented system and/or apparatus for use in a 16 patented process and are not staple articles of commerce suitable for substantial non-infringing 17 use. For example, among other things, on information and belief, Defendants actively and 18 knowingly sell such products and provide customer support, installation and instruction material, 19 and other documentation to customers for the products' use as a component of a patented system 20 and/or apparatus for use in a patented process. On information and belief, Defendants' customers 21 have used and continue to use such products in the United States in this manner and infringed the 22 '396 patent.

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49. As a result of Defendants' infringement of the '396 patent, HiKE has suffered and continues to suffer damages. HiKE is entitled to recover from Defendants the damages adequate to compensate for such infringement in an amount to be determined at trial.

26 50. Defendants' acts of infringement of the '396 patent herein have been committed
27 and are being committed with full knowledge of HiKE's rights in the patent. On information and

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1	belief, Defendants have acted and are continuing to act despite knowing that their actions
2	constituted direct and/or indirect infringement of a valid patent, and they knew or should have
3	known of this infringement since at least July 10, 2012. Defendants' acts constitute willful and
4	deliberate infringement, entitling HiKE to enhanced damages under 35 U.S.C. § 284 and
5	reasonable attorneys' fees and costs.
6	51. Defendants' acts of infringement have caused and will continue to cause
7	irreparable harm to HiKE for which there is no adequate remedy at law, thereby entitling HiKE to
8	injunctive relief.
9	<u>COUNT IV</u>
10	Infringement of the '023 Patent
11	52. HiKE incorporates paragraphs 1-51 above by reference.
12	53. HiKE is the owner, by assignment, of all rights, title and interest in the '023 patent,
13	including the right to recover damages for past infringement.
14	54. By making, using, importing, selling, and/or offering for sale one or more of the
15	Accused Products, including but not limited to the A412 batch vertical furnace system,
16	Defendants have infringed and continue to infringe the '023 patent in this District and throughout
17	the United States.
18	55. For example, the A412 batch vertical furnace system infringes at least claim 1 of
19	the '023 patent because it meets claim 1's limitations of substrate processing equipment that
20	includes (a) at least two pod supporting stages on which to place a pod for containing substrates
21	where the pod has a door; (b) at least two independently-operable opening mechanisms for pod
22	doors, each of which permits access to substrates inside the pod that is placed on a corresponding
23	one of the pod supporting stages; and (c) each of the pod door opening mechanisms horizontally
24	removes the door from the corresponding pod to allow the corresponding pod's substrates to be
25	unloaded from the pod.
26	56. Defendants have been aware of the '023 patent and its infringement since at least
27	as early as July 10, 2012.
28 &	PLAINTIFF HITACHI KOKUSAI 12 ELECTRIC INC.'S COMPLAINT FOR PATENT INFRINGEMENT

1 57. On information and belief, Defendants have also induced and/or are inducing the 2 infringement of the '023 patent by making, using, importing, offering for sale, and/or selling one 3 or more of the Accused Products, including but not limited to the A412 batch vertical furnace 4 system. Defendants sold and/or offered for sale one or more of the Accused Products, including 5 but not limited to the A412 batch vertical furnace system, and are continuing to do so, to 6 customers with the specific intent to actively encourage them to use one or more of the Accused 7 Products, including but not limited to the A412 batch vertical furnace system in the United States 8 in a manner that Defendants know to be infringing.

9 58. On information and belief, Defendants have also contributed to and/or are 10 contributing to the infringement of the '023 patent by making, using, importing, offering for sale, 11 and/or selling one or more of the Accused Products, including but not limited to the A412 batch 12 vertical furnace system. Defendants have made and/or sold such products with knowledge that 13 they are especially designed for use in a patented system and/or apparatus for use in a patented 14 process and are not a staple article of commerce suitable for substantial non-infringing use. For 15 example, among other things, on information and belief, Defendants actively and knowingly sell 16 such products and provide customer support, installation and instruction material, and other 17 documentation to customers for such products' use as a component of a patented system and/or 18 apparatus for use in a patented process. On information and belief, Defendants' customers have 19 used and continue to use such products in the United States in this manner and infringed the '023 20 patent.

Solution 21
Solution 259. As a result of Defendants' infringement of the '023 patent, HiKE has suffered and
continues to suffer damages. HiKE is entitled to recover from Defendants the damages adequate
to compensate for such infringement in an amount to be determined at trial.

24 60. Defendants' acts of infringement of the '023 patent herein have been committed
25 and are being committed with full knowledge of HiKE's rights in the patent. On information and
26 belief, Defendants have acted and are continuing to act despite knowing that their actions
27 constituted direct and/or indirect infringement of a valid patent, and they knew or should have

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1	known of this infringement since at least July 10, 2012. Defendants' acts constitute willful and
2	deliberate infringement, entitling HiKE to enhanced damages under 35 U.S.C. § 284 and
3	reasonable attorneys' fees and costs.
4	61. Defendants' acts of infringement have caused and will continue to cause
5	irreparable harm to HiKE for which there is no adequate remedy at law, thereby entitling HiKE to
6	injunctive relief.
7	<u>COUNT V</u>
8	Infringement of the '018 Patent
9	62. HiKE incorporates paragraphs 1-61 above by reference.
10	63. HiKE is the owner, by assignment, of all rights, title and interest in the '018 patent,
11	including the right to recover damages for past infringement.
12	64. By making, using, importing, selling, and/or offering for sale one or more of the
13	Accused Products, including but not limited to the XP8 system, Defendants have infringed and
14	continue to infringe the '018 patent in this District and throughout the United States.
15	65. For example, the XP8 system infringes at least claim 14 of the '018 patent because
16	it meets claim 14's limitations of a substrate processing apparatus, including (a) a heating
17	member that heats a substrate and is capable of performing an unequal heating in a substrate
18	surface; (b) a controller that controls heating of the substrate at least between a first temperature
19	and a second temperature, which is different from the first temperature, and that controls the
20	heating member such that a temperature deviation in the substrate surface is maintained within a
21	range such that no warpage of the substrate occurs; and (c) where a temperature deviation value
22	in the substrate surface at the first temperature and a temperature deviation value in the substrate
23	surface at the second temperature are different from each other.
24	66. Defendants have been aware of the '018 patent and its infringement since at least
25	July 10, 2012.
26	67. On information and belief, Defendants have also induced and/or are inducing the
27	infringement of the '018 patent by making, using, importing, offering for sale, and/or selling one
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or more of the Accused Products, including but not limited to the XP8 system. Defendants sold
and/or offered for sale one or more of the Accused Products, including but not limited to the XP8
system, and are continuing to do so, to customers with the specific intent to actively encourage
them to use one or more of the Accused Products, including but not limited to the XP8 system, in
the United States in a manner that Defendants know to be infringing.

6 68. On information and belief, Defendants have also contributed to and/or are 7 contributing to the infringement of the '018 patent by making, using, importing, offering for sale, 8 and/or selling one or more of the Accused Products, including but not limited to the XP8 system. 9 Defendants have made and/or sold such products with knowledge that they are especially 10 designed for use in a patented system and/or apparatus for use in a patented process and are not 11 staple articles of commerce suitable for substantial non-infringing use. For example, among other 12 things, on information and belief, Defendants actively and knowingly sell such products and 13 provide customer support, installation and instruction material, and other documentation to 14 customers for the products' use as a component of a patented system and/or apparatus for use in a 15 patented process. On information and belief, Defendants' customers have used and continue to 16 use such products in the United States in this manner and infringed the '018 patent.

69. As a result of Defendants' infringement of the '018 patent, HiKE has suffered and
continues to suffer damages. HiKE is entitled to recover from Defendants the damages adequate
to compensate for such infringement in an amount to be determined at trial.

20 70. Defendants' acts of infringement of the '018 patent herein have been committed
21 and are being committed with full knowledge of HiKE's rights in the patent. On information and
22 belief, Defendants have acted and are continuing to act despite knowing that their actions
23 constituted direct and/or indirect infringement of a valid patent, and they knew or should have
24 known of this infringement since at least July 10, 2012. Defendants' acts, since at least July 10,
25 2012, constitute willful and deliberate infringement, entitling HiKE to enhanced damages under
26 35 U.S.C. § 284 and reasonable attorneys' fees and costs.

27 28 71. Defendants' acts of infringement have caused and will continue to cause

1 irreparable harm to HiKE for which there is no adequate remedy at law, thereby entitling HiKE to 2 injunctive relief. 3 COUNT VI 4 **Infringement of the '988 Patent** 5 HiKE incorporates paragraphs 1-71 above by reference. 72. 6 73. HiKE is the owner, by assignment, of all rights, title and interest in the '988 patent, 7 including the right to recover damages for past infringement. 8 74. By making, using, importing, selling, and/or offering for sale one or more of the 9 Accused Products, including but not limited to the XP8 system, Defendants have infringed and 10 continue to infringe the '988 patent in this District and throughout the United States. 75. 11 For example, the XP8 system infringes at least claim 1 of the '988 patent because 12 it practices a method of manufacturing a semiconductor device that consists of (a) forming a first 13 layer including a first element that is able to become solid state by itself on a substrate by 14 supplying a gas containing the first element into a process vessel that contains the substrate under 15 a condition where a CVD reaction is caused; (b) modifying the first layer by supplying a gas 16 containing a second element that is unable to become solid state by itself into the process vessel 17 to form a second layer including the first element and the second element; and (c) performing a 18 cycle that consists of steps (a) and (b) at least once to form a thin film having a predetermined 19 thickness and including the first element and the second element. 20 76. Defendants have been aware of the '988 patent and its infringement since at least 21 as early as October 17, 2014. 22 77. On information and belief, Defendants have also induced and/or are inducing the 23 infringement of the '988 patent by making, using, importing, offering for sale, and/or selling one 24 or more of the Accused Products, including but not limited to the XP8 system. Defendants sold 25 and/or offered for sale one or more of the Accused Products, including but not limited to the XP8 26 system, and are continuing to do so, to customers with the specific intent to actively encourage 27 them to use one or more of the Accused Products, including but not limited to the XP8 system, in

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the United States in a manner that Defendants know to be infringing.

2 78. On information and belief, Defendants have also contributed to and/or are 3 contributing to the infringement of the '988 patent by making, using, importing, offering for sale, 4 and/or selling one or more of the Accused Products, including but not limited to the XP8 system. 5 Defendants have made and/or sold such products with knowledge that they are especially 6 designed for use in a patented system and/or apparatus for use in a patented process and are not a 7 staple article of commerce suitable for substantial non-infringing use. For example, among other 8 things, on information and belief, Defendants actively and knowingly sell such products and 9 provide customer support, installation and instruction material, and other documentation to 10 customers for such products' use as a component of a patented system and/or apparatus for use in 11 a patented process. On information and belief, Defendants' customers have used and continue to 12 use such products in the United States in this manner and infringed the '988 patent.

13 79. As a result of Defendants' infringement of the '988 patent, HiKE has suffered and
14 continues to suffer damages. HiKE is entitled to recover from Defendants the damages adequate
15 to compensate for such infringement in an amount to be determined at trial.

16 80. Defendants' acts of infringement of the '988 patent herein have been committed
17 and are being committed with full knowledge of HiKE's rights in the patent. On information and
18 belief, Defendants have acted and are continuing to act despite knowing that their actions
19 constituted direct and/or indirect infringement of a valid patent, and they knew or should have
20 known of this infringement since at least October 17, 2014. Defendants' acts constitute willful
21 and deliberate infringement, entitling HiKE to enhanced damages under 35 U.S.C. § 284 and
22 reasonable attorneys' fees and costs.

81. Defendants' acts of infringement have caused and will continue to cause
irreparable harm to HiKE for which there is no adequate remedy at law, thereby entitling HiKE to
injunctive relief.

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1	<u>COUNT VII</u>	
2	Infringement of the '316 Patent	
3	82. HiKE incorporates paragraphs 1-81 above by reference.	
4	83. HiKE is the owner, by assignment, of all rights, title and interest in the '316 patent,	
5	including the right to recover damages for past infringement.	
6	84. By making, using, importing, selling, and/or offering for sale one or more of the	
7	Accused Products, including but not limited to the XP8 system, Defendants have infringed and	
8	continue to infringe the '316 patent in this District and throughout the United States.	
9	85. For example, the XP8 system infringes at least claim 1 of the '316 patent because	
10	it practices a semiconductor device manufacturing method that forms a thin film on that substrate	
11	where the film is a predetermined thickness, is a predetermined composition, and consists of a	
12	first element and a second element different from the first element, by repeating a cycle a	
13	plurality of times, and the cycle consists of the following steps: (a) forming a first layer on the	
14	substrate that includes the first element and has a thickness of several atomic layers or less than	
15	one atomic layer by supplying a gas containing the first element into a process vessel that	
16	accommodates the substrate; and (b) forming a second layer that includes the first element and the	
17	second element by supplying a gas containing the second element into the process vessel to	
18	modify the first layer without the gas containing the second element saturating a modifying	
19	reaction of the first layer.	
20	86. Defendants have been aware of the '316 patent and its infringement since at least	
21	as early as July 27, 2016.	
22	87. On information and belief, Defendants have also induced and/or are inducing the	
23	infringement of the '316 patent by making, using, importing, offering for sale, and/or selling one	
24	or more of the Accused Products, including but not limited to the XP8 system. Defendants sold	
25	and/or offered for sale one or more of the Accused Products, including but not limited to the XP8	
26	system, and are continuing to do so, to customers with the specific intent to actively encourage	
27	them to use one or more of the Accused Products, including but not limited to the XP8 system in	

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the United States in a manner that Defendants know to be infringing.

2 88. On information and belief, Defendants have also contributed to and/or are 3 contributing to the infringement of the '316 patent by making, using, importing, offering for sale, 4 and/or selling one or more of the Accused Products, including but not limited to the XP8 system. 5 Defendants have made and/or sold such products with knowledge that they are especially 6 designed for use in a patented system and/or apparatus for use in a patented process and are not a 7 staple article of commerce suitable for substantial non-infringing use. For example, among other 8 things, on information and belief, Defendants actively and knowingly sell such products and 9 provide customer support, installation and instruction material, and other documentation to 10 customers for such products' use as a component of a patented system and/or apparatus for use in 11 a patented process. On information and belief, Defendants' customers have used and continue to 12 use such products in the United States in this manner and infringed the '316 patent.

13 89. As a result of Defendants' infringement of the '316 patent, HiKE has suffered and
14 continues to suffer damages. HiKE is entitled to recover from Defendants the damages adequate
15 to compensate for such infringement in an amount to be determined at trial.

90. Defendants' acts of infringement of the '316 patent herein have been committed
and are being committed with full knowledge of HiKE's rights in the patent. On information and
belief, Defendants have acted and are continuing to act despite knowing that their actions
constituted direct and/or indirect infringement of a valid patent, and they knew or should have
known of this infringement since at least July 27, 2016. Defendants' acts, since at least July 27,
2016, constitute willful and deliberate infringement, entitling HiKE to enhanced damages under
35 U.S.C. § 284 and reasonable attorneys' fees and costs.

23 91. Defendants' acts of infringement have caused and will continue to cause
24 irreparable harm to HiKE for which there is no adequate remedy at law, thereby entitling HiKE to
25 injunctive relief.

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1	PRAYER FOR RELIEF
2	WHEREFORE, HiKE prays that this Court enters judgment and provides relief as
3	follows:
4	A. That Defendants have infringed and are infringing the Asserted Patents;
5	B. That Defendants have induced and are inducing infringement of the Asserted
6	Patents;
7	C. That Defendants have contributed to and are contributing to infringement of the
8	Asserted Patents;
9	D. That the Asserted Patents are valid and enforceable;
10	E. That Defendants, their officers, agents, and employees, and those persons in active
11	concert of participation with any of them, and their successors and assigns be preliminarily and
12	permanently enjoined from infringement of the Asserted Patents, including but not limited to an
13	injunction against making, using, offering to sell, selling within the United States, and importing
14	into the United States, products covered by the Asserted Patents;
15	F. For an accounting for any infringing sales not presented at trial and an award by
16	the Court of additional damages for any such infringing sales;
17	G. That Defendants be ordered to account for and pay to HiKE the damages resulting
18	from Defendants' infringement of the Asserted Patents, including lost profits, together with
19	interest and costs, and all other damages permitted by 35 U.S.C. § 284, including enhanced
20	damages up to three times the amount of damages found or measured, but in any event no less
21	than a reasonable royalty;
22	H. That this action be adjudged an exceptional case and HiKE be awarded its
23	attorneys' fees, expenses and costs in this action pursuant to 35 U.S.C. § 285; and
24	I. That HiKE be awarded such other equitable or legal relief as this Court deems just
25	and proper under the circumstances.
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27	
28 Morgan, Lewis & Bockius LLP Attorneys at Law Silicon Valley	PLAINTIFF HITACHI KOKUSAI 20 ELECTRIC INC.'S COMPLAINT FOR PATENT INFRINGEMENT

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1	JURY DEMAND				
2	HiKE demands a trial by jury on all issues so triable.				
3					
4		Respectfully s	ubmitted,		
5	Dated: December 1, 2017	/s/ Michae	el J. Lyons		
6		Michael J Jason E. (. Lyons Gettleman		
7		Jacob J.O Karon N.	Fowler		
8		1400 Page	N, LEWIS & BOCKIUS LLP e Mill Road		
9		Tel:	, CA 94304 +1.650.843.4000 +1.650.843.4001		
10			for Plaintiff		
11		HITACH	I KOKUSAI ELECTRIC INC.		
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28 MORGAN, LEWIS & BOCKIUS LLP ATTORNEYS AT LAW SILICON VALLEY		21	PLAINTIFF HITACHI KOKUSAI ELECTRIC INC.'S COMPLAINT FOR PATENT INFRINGEMENT		

JS-CAND 44 (Rev. 06/17) Case 5:17-cv-06880-B C Document 1, 15-16-12/01/17 Page 1 of 2

The JS-CAND 44 civil cover sheet and the information contained herein neither replace nor supplement the filing and service of pleadings or other papers as required by law, except as provided by local rules of court. This form, approved in its original form by the Judicial Conference of the United States in September 1974, is required for the Clerk of Court to initiate the civil docket sheet. (SEE INSTRUCTIONS ON NEXT PAGE OF THIS FORM.)

DEFENDANTS ASM INTERNATIONAL, N.V., and I. (a) PLAINTIFFS HITACHI KOKUSAI ELECTRIC INC. ASM AMERICA, INC. County of Residence of First Listed Defendant (b) County of Residence of First Listed Plaintiff (IN U.S. PLAINTIFF CASES ONLY) (EXCÉPT IN U.S. PLAINTIFF CASES) IN LAND CONDEMNATION CASES, USE THE LOCATION OF THE TRACT OF LAND INVOLVED. NOTE Attorneys (If Known) (c) Attorneys (Firm Name, Address, and Telephone Number) Michael J. Lyons, MORGAN, LEWIS & BOCKIUS LLP 1400 Page Mill Road, Palo Alto, CA 94304 650.843.4000 II. **BASIS OF JURISDICTION** (Place an "X" in One Box Only) III. CITIZENSHIP OF PRINCIPAL PARTIES (Place an "X" in One Box for Plaintiff and One Box for Defendant) (For Diversity Cases Only) PTF DEF PTF DEF U.S. Government Plaintiff **X**³ Federal Question Citizen of This State 1 1 Incorporated or Principal Place 4 4 (U.S. Government Not a Party) of Business In This State Citizen of Another State Incorporated and Principal Place 2 2 5 2 U.S. Government Defendant 4 Diversity of Business In Another State (Indicate Citizenship of Parties in Item III) Citizen or Subject of a 6 3 3 Foreign Nation 6 Foreign Country IV. NATURE OF SUIT (Place an "X" in One Box Only) CONTRACT TORTS FORFEITURE/PENALTY BANKRUPTCY **OTHER STATUTES** 110 Insurance 625 Drug Related Seizure of 422 Appeal 28 USC § 158 375 False Claims Act PERSONAL INJURY PERSONAL INJURY Property 21 USC § 881 120 Marine 423 Withdrawal 28 USC 376 Qui Tam (31 USC 310 Airplane 365 Personal Injury - Product 690 Other \$ 157 § 3729(a)) 130 Miller Act Liability 315 Airplane Product Liability LABOR 400 State Reapportionment PROPERTY RIGHTS 367 Health Care/ 140 Negotiable Instrument 320 Assault, Libel & Slander Pharmaceutical Personal 410 Antitrust 150 Recovery of 330 Federal Employers' 710 Fair Labor Standards Act 820 Copyrights Injury Product Liability 430 Banks and Banking Overpayment Of Liability 720 Labor/Management ×830 Patent Veteran's Benefits 368 Asbestos Personal Injury 450 Commerce 340 Marine Relations 835 Patent-Abbreviated New Product Liability 151 Medicare Act 460 Deportation 345 Marine Product Liability 740 Railway Labor Act Drug Application PERSONAL PROPERTY 152 Recovery of Defaulted 470 Racketeer Influenced & 751 Family and Medical 350 Motor Vehicle 840 Trademark Student Loans (Excludes 370 Other Fraud Corrupt Organizations 355 Motor Vehicle Product Leave Act SOCIAL SECURITY Veterans) 371 Truth in Lending 480 Consumer Credit 790 Other Labor Litigation Liability 153 Recovery of 861 HIA (1395ff) 380 Other Personal Property 490 Cable/Sat TV 360 Other Personal Injury 791 Employee Retirement Overpayment Damage 862 Black Lung (923) Income Security Act 850 Securities/Commodities/ 362 Personal Injury -Medical of Veteran's Benefits 385 Property Damage Product Exchange 863 DIWC/DIWW (405(g)) Malpractice IMMIGRATION 160 Stockholders' Suits Liability 864 SSID Title XVI 890 Other Statutory Actions 190 Other Contract 462 Naturalization PRISONER PETITIONS CIVIL RIGHTS 865 RSI (405(g)) 891 Agricultural Acts Application 195 Contract Product Liability 893 Environmental Matters 440 Other Civil Rights HABEAS CORPUS FEDERAL TAX SUITS 465 Other Immigration 196 Franchise 895 Freedom of Information 441 Voting 463 Alien Detainee Actions 870 Taxes (U.S. Plaintiff or REAL PROPERTY Act 442 Employment 510 Motions to Vacate Defendant) 896 Arbitration 210 Land Condemnation 443 Housing/ Sentence 871 IRS-Third Party 26 USC 899 Administrative Procedure Accommodations 530 General § 7609 220 Foreclosure Act/Review or Appeal of 445 Amer. w/Disabilities-535 Death Penalty 230 Rent Lease & Ejectment Agency Decision Employment 240 Torts to Land OTHER 950 Constitutionality of State 446 Amer. w/Disabilities-Other 245 Tort Product Liability 540 Mandamus & Other Statutes 448 Education 290 All Other Real Property 550 Civil Rights 555 Prison Condition 560 Civil Detainee-Conditions of Confinement V. **ORIGIN** (Place an "X" in One Box Only) Original Removed from Remanded from $\times 1$ 2 3 4 Reinstated or 5 Transferred from 6 Multidistrict 8 Multidistrict Litigation-Transfer Proceeding State Court Appellate Court Reopened Another District (specify) Litigation-Direct File Cite the U.S. Civil Statute under which you are filing (Do not cite jurisdictional statutes unless diversity): VI. CAUSE OF 35 U.S.C. § 271 ACTION Brief description of cause: Patent Infringement VII. **REOUESTED IN** CHECK IF THIS IS A CLASS ACTION **DEMAND \$** CHECK YES only if demanded in complaint: UNDER RULE 23, Fed. R. Civ. P. JURY DEMAND: × Yes No **COMPLAINT:** VIII. RELATED CASE(S), JUDGE DOCKET NUMBER **IF ANY** (See instructions): **DIVISIONAL ASSIGNMENT (Civil Local Rule 3-2)** IX

	Livi (eivi Local Kale 5-2)		
(Place an "X" in One Box Only)	SAN FRANCISCO/OAKLAND	SAN JOSE	EUREKA-MCKINLEYVILLE

SIGNATURE OF ATTORNEY OF RECORD

/s/ Michael J. Lyons

INSTRUCTIONS FOR ATTORNEYS COMPLETING CIVIL COVER SHEET FORM JS-CAND 44

Authority For Civil Cover Sheet. The JS-CAND 44 civil cover sheet and the information contained herein neither replaces nor supplements the filings and service of pleading or other papers as required by law, except as provided by local rules of court. This form, approved in its original form by the Judicial Conference of the United States in September 1974, is required for the Clerk of Court to initiate the civil docket sheet. Consequently, a civil cover sheet is submitted to the Clerk of Court for each civil complaint filed. The attorney filing a case should complete the form as follows:

- **I.** a) **Plaintiffs-Defendants.** Enter names (last, first, middle initial) of plaintiff and defendant. If the plaintiff or defendant is a government agency, use only the full name or standard abbreviations. If the plaintiff or defendant is an official within a government agency, identify first the agency and then the official, giving both name and title.
- b) County of Residence. For each civil case filed, except U.S. plaintiff cases, enter the name of the county where the first listed plaintiff resides at the time of filing. In U.S. plaintiff cases, enter the name of the county in which the first listed defendant resides at the time of filing. (NOTE: In land condemnation cases, the county of residence of the "defendant" is the location of the tract of land involved.)
- c) Attorneys. Enter the firm name, address, telephone number, and attorney of record. If there are several attorneys, list them on an attachment, noting in this section "(see attachment)."
- **II. Jurisdiction.** The basis of jurisdiction is set forth under Federal Rule of Civil Procedure 8(a), which requires that jurisdictions be shown in pleadings. Place an "X" in one of the boxes. If there is more than one basis of jurisdiction, precedence is given in the order shown below.
 - (1) United States plaintiff. Jurisdiction based on 28 USC §§ 1345 and 1348. Suits by agencies and officers of the United States are included here.
 - (2) <u>United States defendant</u>. When the plaintiff is suing the United States, its officers or agencies, place an "X" in this box.
 - (3) Federal question. This refers to suits under 28 USC § 1331, where jurisdiction arises under the Constitution of the United States, an amendment to the Constitution, an act of Congress or a treaty of the United States. In cases where the U.S. is a party, the U.S. plaintiff or defendant code takes precedence, and box 1 or 2 should be marked.
 - (4) <u>Diversity of citizenship</u>. This refers to suits under 28 USC § 1332, where parties are citizens of different states. When Box 4 is checked, the citizenship of the different parties must be checked. (See Section III below; NOTE: federal question actions take precedence over diversity cases.)
- **III. Residence (citizenship) of Principal Parties.** This section of the JS-CAND 44 is to be completed if diversity of citizenship was indicated above. Mark this section for each principal party.
- **IV.** Nature of Suit. Place an "X" in the appropriate box. If the nature of suit cannot be determined, be sure the cause of action, in Section VI below, is sufficient to enable the deputy clerk or the statistical clerk(s) in the Administrative Office to determine the nature of suit. If the cause fits more than one nature of suit, select the most definitive.
- V. Origin. Place an "X" in one of the six boxes.
 - (1) Original Proceedings. Cases originating in the United States district courts.
 - (2) <u>Removed from State Court</u>. Proceedings initiated in state courts may be removed to the district courts under Title 28 USC § 1441. When the petition for removal is granted, check this box.
 - (3) <u>Remanded from Appellate Court</u>. Check this box for cases remanded to the district court for further action. Use the date of remand as the filing date.
 - (4) <u>Reinstated or Reopened</u>. Check this box for cases reinstated or reopened in the district court. Use the reopening date as the filing date.
 - (5) <u>Transferred from Another District</u>. For cases transferred under Title 28 USC § 1404(a). Do not use this for within district transfers or multidistrict litigation transfers.
 - (6) <u>Multidistrict Litigation Transfer</u>. Check this box when a multidistrict case is transferred into the district under authority of Title 28 USC § 1407. When this box is checked, do not check (5) above.
 - (8) <u>Multidistrict Litigation Direct File</u>. Check this box when a multidistrict litigation case is filed in the same district as the Master MDL docket.

Please note that there is no Origin Code 7. Origin Code 7 was used for historical records and is no longer relevant due to changes in statute.

- VI. Cause of Action. Report the civil statute directly related to the cause of action and give a brief description of the cause. Do not cite jurisdictional statutes unless diversity. Example: U.S. Civil Statute: 47 USC § 553. <u>Brief Description</u>: Unauthorized reception of cable service.
- VII. Requested in Complaint. Class Action. Place an "X" in this box if you are filing a class action under Federal Rule of Civil Procedure 23.

Demand. In this space enter the actual dollar amount being demanded or indicate other demand, such as a preliminary injunction.

Jury Demand. Check the appropriate box to indicate whether or not a jury is being demanded.

- VIII. Related Cases. This section of the JS-CAND 44 is used to identify related pending cases, if any. If there are related pending cases, insert the docket numbers and the corresponding judge names for such cases.
- **IX.** Divisional Assignment. If the Nature of Suit is under Property Rights or Prisoner Petitions or the matter is a Securities Class Action, leave this section blank. For all other cases, identify the divisional venue according to Civil Local Rule 3-2: "the county in which a substantial part of the events or omissions which give rise to the claim occurred or in which a substantial part of the property that is the subject of the action is situated."

Date and Attorney Signature. Date and sign the civil cover sheet.