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13	UNITED STATES DISTRICT COURT NORTHERN DISTRICT OF CALIFORNIA SAN JOSE DIVISION		
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15	5/1/1005	D DIVISION	
16	Nazomi Communications, Inc.,		
17	Plaintiff,		
18	v.	Case No. 5:10-cv-5545-RMW	
19	Samsung Telecommunications America, LLC,	SECOND AMENDED COMPLAINT FOR	
20	Samsung Electronics Co., Ltd., Samsung Electronics America, Inc., HTC Corp., HTC	PATENT INFRINGEMENT	
21	America, Inc., LG Electronics, Inc., LG Electronics Mobilecomm U.S.A., Inc.,	JURY TRIAL DEMANDED	
22	Kyocera Communications Inc., ARM Ltd.		
23	ARM, Inc., Amazon.com, Inc., and Vizio, Inc.		
24	Defendants.		
25	Plaintiff Nazomi Communications, Inc.	("Nazomi"), by and through its undersigned	
26	counsel, complains as follows:		
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	Nazomi Communications, Inc. v. Samsung Telecommunications America, LLC, et al., 5:10-	I. SECOND AMENDED COMPLAINT FOR PATENT INFRINGEMENT	

cv-5545-RMW

JURISDICTION AND VENUE

- This infringement action arises under the patent laws of the United States, Title 35 of the United States Code, including but not limited to 35 U.S.C. § 271.
- This Court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and
 1338(a).
- Venue is proper in this judicial district pursuant to 28 U.S.C. §§ 1391(b), 1391(c), and 1400(b).

THE PARTIES

- Plaintiff Nazomi Communications, Inc. is a corporation organized and existing under the laws of the State of Delaware with its principal place of business at 3561 Homestead Road, Suite 571, Santa Clara, California 95051.
- 5. LG Electronics, Inc. is a foreign corporation organized and existing under the laws of Korea, with its principal place of business at LG Twin Towers 20, Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, South Korea. On information and belief, Defendant LG Electronics Mobilecomm U.S.A., Inc. is a corporation organized and existing under the laws of the State of California, with its principal place of business located at 10101 Old Grove Rd, San Diego, CA 92131. LG Electronics, Inc. and LG Electronics Mobilecomm U.S.A., Inc. are referred to collectively herein as "LG."
- 6. Defendant Samsung Electronics Co., Ltd. is a foreign corporation organized and existing under the laws of Korea, with corporate offices located at Samsung Electronics Building 1320-10, Seocho 2-dong, Seocho-gu, Seoul 137-B57, Korea. Defendant Samsung Electronics America, Inc. is a corporation organized and existing under the laws of the State of New York, with its principal place of business located at 105 Challenger Road, Ridgefield Park, NJ 07660.
 Samsung Telecommunications America, LLC is a corporation organized and existing under the

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laws of the State of Delaware, with its principal place of business located at 1301 Lookout Dr., Richardson, TX 75082. Samsung Electronics Co., Ltd., Samsung Electronics America, Inc. and Samsung Telecommunications America, LLC are referred to collectively herein as "Samsung."

- 7. HTC Corp. is a foreign corporation organized and existing under the laws of Taiwan, with its principal place of business at 23 Hsin Hua Rd., Taoyuan, 330, Taiwan.
 Defendant HTC America, Inc. is a corporation organized and existing under the laws of the State of Washington having its principle place of business at 13920 S.E. Eastgate Way, Suite 400, Bellevue, WA 98005. HTC Corp. and HTC America, Inc. are referred to collectively herein as "HTC."
- Defendant Kyocera Communications, Inc. ("Kyocera") is a corporation organized and existing under the laws of the State of Delaware, with its principal place of business located at 9520 Towne Centre Drive, San Diego, California, 92121.
- 9. Defendants ARM Ltd. and ARM, Inc. (collectively "ARM") are subsidiaries of ARM Holdings PLC. ARM Ltd. is a corporation organized and existing under the laws of England and Wales having corporate offices in Cambridge, England. ARM Inc. is a California corporation with its principal place of business located at 150 Rose Orchard Way, San Jose, California 95134-1358.
- 10. Defendant Vizio, Inc. ("Vizio") is a corporation organized and existing under the laws of the State of California with its principal place of business at 39 Tesla, Irvine, CA 92618.
- Defendant Amazon.com, Inc. ("Amazon") is a corporation organized and existing under the laws of the State of Delaware with its principal place of business at 410 Terry Avenue N., Seattle, Washington 98109.

BACKGROUND

- 12. Nazomi Communications, Inc. was founded in September 1998 by three Java technology and embedded systems veterans for the purpose of enhancing the performance of applications that run on the Java platform and other universal runtime platforms. Nazomi's pioneering technologies included the JSTAR Java Coprocessor technology and the JA108 Java and Multimedia Application Processor, which were targeted at wireless mobile devices, internet appliances, and embedded systems. Nazomi's technology and products were adopted by leading phone manufacturers and incorporated into millions of smart phones. In the years since Nazomi's introduction of the JSTAR and JA108 products, Java hardware and software acceleration has been widely adopted for wireless mobile and embedded systems applications. Java is now used as a platform on hundreds of millions of devices.
- 13. On July 18, 2006, the United States Patent and Trademark Office duly and legally issued United States Patent No. 7,080,362 entitled "Java Virtual Machine Hardware for RISC and CISC Processors" ("the '362 patent"). A true and correct copy of the '362 patent is attached as Exhibit A.
- 14. On May 29, 2007, the United States Patent and Trademark Office duly and legally issued United States Patent No. 7,225,436 entitled "Java Hardware Accelerator Using Microcode Engine" ("the '436 patent"). A true and correct copy of the '436 patent is attached as Exhibit B.
- 15. On January 8, 2002, the United States Patent and Trademark Office duly and legally issued United States Patent No. 6,338,160 entitled "Constant Pool Reference Resolution Method" ("the '160 patent"). A true and correct copy of the '160 patent is attached as Exhibit C.
- 16. Nazomi is the owner and possessor of all rights, title, and interest in the '362, '436, and '160 patents.
 - 17. Defendant Samsung makes, uses, sells, and/or offers for sale within the United

States and this judicial district consumer electronic devices containing processor cores capable of Java hardware acceleration including, but not limited to, the Instinct s30 (SPH-M810) mobile phone. Upon information and belief, the Instinct s30 (SPH-M810) mobile phone incorporates an ARM926EJ-S processor core capable of Java hardware acceleration.

- 18. Defendant Samsung likewise makes, uses, sells, and/or offers for sale within the United States and this judicial district consumer electronic devices that use a virtual machine ("VM") to resolve constant pool references including, but not limited to, the Captivate (SGH-1897) mobile phone. Upon information and belief, the Captivate (SGH-1897) mobile phone uses a VM to resolve constant pool references.
- 19. Defendant HTC makes, uses, sells, and/or offers for sale within the United States and this judicial district consumer electronic devices containing processor cores capable of Java hardware acceleration including, but not limited to, the HTC Freestyle. Upon information and belief, the HTC Freestyle mobile phone incorporates an ARM1136EJ-S processor core capable of Java hardware acceleration.
- 20. Defendant HTC makes, uses, sells, and/or offers for sale within the United States and this judicial district consumer electronic devices that use a VM to resolve constant pool references including, but not limited to, the Droid Incredible mobile phone. Upon information and belief, the Droid Incredible mobile phone uses a VM to resolve constant pool references.
- 21. Defendant LG makes, uses, sells, and/or offers for sale within the United States and this judicial district consumer electronic devices containing processor cores capable of Java hardware acceleration including, but not limited to, the LX370 mobile phone. Upon information and belief, the LX370 mobile phone incorporates an ARM926EJ-S processor core capable of Java hardware acceleration.
 - 22. Defendant LG likewise makes, uses, sells, and/or offers for sale within the United

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States and this judicial district consumer electronic devices that use a VM to resolve constant pool references including, but not limited to, the Ally (VS740) mobile phone. Upon information and belief, the Ally (VS740) mobile phone uses a VM to resolve constant pool references.

- 23. Defendant Kyocera makes, uses, sells, and/or offers for sale within the United States and this judicial district consumer electronic devices containing processor cores capable of Java hardware acceleration including, but not limited to, the PRO-700 mobile phone. Upon information and belief, the PRO-700 mobile phone incorporates an ARM926EJ-S processor core capable of Java hardware acceleration.
- 24. Defendant Kyocera likewise makes, uses, sells, and/or offers for sale within the United States and this judicial district consumer electronic devices that use a VM to resolve constant pool references including, but not limited to, the Zio (M6000) mobile phone. Upon information and belief, the Zio (M6000) mobile phone uses a VM to resolve constant pool references.
- 25. Defendant ARM makes, uses, sells, and/or offers for sale within the United States and this judicial district processor cores and/or semiconductor intellectual property that include ARM's Jazelle extension capable of Java hardware acceleration including, but not limited to, the ARM926EJ-S, ARM1136J-S, and the ARM Cortex A9.
- 26. Defendant VIZIO, Inc. makes, uses, sells, and/or offers for sale within the United States and this judicial district the VTAB1008 tablet computer. Upon information and belief, the VTAB1008 tablet computer uses a VM to resolve constant pool references.
- 27. Defendant Amazon.com, Inc. makes, uses, sells, and/or offers for sale within the United States and this judicial district the Kindle Fire tablet computer. Upon information and belief, the Kindle Fire tablet computer uses a virtual machine ("VM") to resolve constant pool references.

COUNT I INFRINGEMENT OF THE '362 PATENT

- Plaintiff incorporates each of the preceding paragraphs 1-27 as if fully set forth herein.
- 29. Defendants Samsung, LG, HTC, Kyocera and ARM have been and are directly infringing the '362 patent by making, using, selling, and/or offering for sale within the United States and this judicial district the products identified in paragraphs 17, 19, 21, 23, and 25.
- 30. Upon information and belief, since at least December 7, 2009, ARM has been and is indirectly infringing one or more claims of the '362 patent by providing technology and documentation that contributes to and induces direct infringement of one or more claims of the '362 patent by manufacturers and users of consumer electronics devices equipped with an ARM core having ARM's Jazelle extension.
- 31. Upon information and belief, ARM has had actual knowledge of the '362 patent since at least December 7, 2009, when Nazomi initiated suit against the Nazomi I defendants in the United States District Court for the Eastern District of Texas.
- 32. Upon information and belief, since at least December 7, 2009, ARM has offered to sell and has sold processor core technology having ARM's Jazelle extension, including the ARM products identified in paragraph 25, for incorporation by consumer electronics manufacturers into a wide variety of consumer electronic devices.
- 33. Upon information and belief, since at least December 7, 2009, ARM has offered and has sold its processor core products having the Jazelle extension knowing that the Jazelle feature is especially made and adapted for use in direct infringement of one or more claims of the '362 patent by consumer electronics manufacturers that make, use, offer, import, and/or sell electronic devices equipped with an ARM core having the Jazelle extension and/or by end users

of such devices via installation or execution of bytecode-based programs.

- 34. Upon information and belief, the Jazelle feature of ARM's processor core technology is not a staple article or commodity of commerce suitable for substantial use in a manner that does not infringe one or more claims of the '362 patent.
- 35. Upon information and belief, since at least December 7, 2009, ARM also has provided consumer electronics manufacturers, including Samsung, LG, HTC, and Kyocera, with technical documentation and other support to enable such companies to incorporate ARM processor cores equipped with ARM's Jazelle feature into consumer electronic devices. For example, ARM has provided and continues to provide consumer electronics manufacturers with Technical Reference Manuals and other documentation for its ARM1136 processors. Upon information and belief, that documentation includes instructions for implementing Jazelle direct bytecode execution (DBX), which allows for hardware acceleration of bytecodes.
- 36. Upon information and belief, since at least December 7, 2009, ARM has provided technical documentation and other support to consumer electronics manufacturers with the specific intent to induce direct infringement of one or more claims of the '362 patent by manufacturers of devices equipped with an ARM core having the Jazelle feature and/or by end users of such devices via installation or execution of bytecode-based programs.
- 37. The infringement by Defendants Samsung, LG, HTC, Kyocera, and ARM of the '362 patent has injured Plaintiff and will cause irreparable injury and damage in the future unless Defendants are enjoined from infringing the '362 patent.

COUNT II INFRINGEMENT OF THE '436 PATENT

- Plaintiff incorporates each of the preceding paragraphs 1-27 as if fully set forth herein.
 - 39. Defendants Samsung, LG, HTC, Kyocera, and ARM have been and are directly

infringing the '436 patent by making, using, selling, and/or offering for sale within the United States and this judicial district the products identified in paragraphs 17, 19, 21, 23, and 25.

- 40. Upon information and belief, since at least December 7, 2009, ARM has been and is indirectly infringing one or more claims of the '436 patent by providing technology and documentation that contributes to and induces direct infringement of one or more claims of the '436 patent by manufacturers and users of consumer electronics devices equipped with an ARM core having ARM's Jazelle extension.
- 41. Upon information and belief, ARM has had actual knowledge of the '436 patent since at least December 7, 2009, when Nazomi initiated suit against the Nazomi I defendants in the United States District Court for the Eastern District of Texas.
- 42. Upon information and belief, since at least December 7, 2009, ARM has offered to sell and has sold processor core technology having ARM's Jazelle extension, including the ARM products identified in paragraph 25, for incorporation by consumer electronics manufacturers into a wide variety of consumer electronic devices.
- 43. Upon information and belief, since at least December 7, 2009, ARM has offered and has sold processor core products having the Jazelle extension knowing that the Jazelle feature is especially made and adapted for use in direct infringement of one or more claims of the '436 patent by consumer electronics manufacturers that make, use, offer, import, and/or sell electronic devices equipped with an ARM core having the Jazelle extension and/or by end users of such devices via installation or execution of bytecode-based programs.
- 44. Upon information and belief, the Jazelle feature of ARM's processor core technology is not a staple article or commodity of commerce suitable for substantial use in a manner that does not infringe one or more claims of the '436 patent.
 - 45. Upon information and belief, since at least December 7, 2009, ARM also has

provided consumer electronics manufacturers, including Samsung, LG, HTC, and Kyocera, with technical documentation and other support to enable such companies to incorporate ARM processor cores equipped with ARM's Jazelle feature into consumer electronic devices. For example, ARM has provided and continues to provide consumer electronics manufacturers with Technical Reference Manuals and other documentation for its ARM1136 processors. Upon information and belief, that documentation includes instructions for implementing Jazelle direct bytecode execution (DBX), which allows for hardware acceleration of bytecodes.

- 46. Upon information and belief, since at least December 7, 2009, ARM has provided technical documentation and other support to consumer electronics manufacturers with the specific intent to induce direct infringement of one or more claims of the '436 patent by manufacturers of devices equipped with an ARM core having the Jazelle feature and/or by end users of such devices via installation or execution of bytecode-based programs.
- 47. The infringement by Defendants Samsung, LG, HTC, Kyocera, and ARM of the '436 patent has injured Plaintiff and will cause irreparable injury and damage in the future unless Defendants are enjoined from infringing the '436 patent.

COUNT III INFRINGEMENT OF THE '160 PATENT

- 48. Plaintiff incorporates each of the preceding paragraphs 1-27 as if fully set forth herein.
- 49. Defendants Samsung, HTC, LG, Kyocera, Amazon, and Vizio have been and are directly infringing the '160 patent by making, using, selling, and/or offering for sale within the United States and this judicial district the products identified in paragraphs 18, 20, 22, 24, 26, and 27.
- 50. The infringement by Defendants Samsung, LG, HTC, Kyocera, Amazon, and Vizio of the '160 patent has injured Plaintiff and will cause irreparable injury and damage in the

future unless	s Defendants are enjoined from infringing the '160 patent.
	PRAYER FOR RELIEF
WHI	EREFORE, Nazomi prays for judgment against all Defendants as follows:
a)	That the Court find that Defendants Samsung, LG, HTC, Kyocera, and ARM have
	ed, and are each presently infringing, United States Patent Nos. 7,080,362 and
	ed, and are each presently intringing, Onlied States Patent Nos. 7,080,302 and
7,225,436;	That die Court Could at DeCoulout Courses I C HTC Version Assessed and
b)	That the Court find that Defendants Samsung, LG, HTC, Kyocera, Amazon, and
Vizio have e	each infringed, and are each presently infringing, United States Patent No. 6,338,160;
c)	That the Court find the '362, '436, '160 patents valid and enforceable;
d)	That the Court award Nazomi damages or other monetary relief, including
orejudgmen	interest, for Defendants' infringement;
e)	That the Court find this to be an exceptional case entitling Nazomi to an award of
attorney's fees, expenses, and costs pursuant to 35 U.S.C. § 285;	
f)	That the Court enjoin Defendants Samsung, LG, HTC, Kyocera, ARM, Amazon,
nd Vizio ar	nd their officers, directors, agents, and employees, from infringing the '362, '436,
and/or '160	patents;
g)	That the Court award Nazomi such other and further relief as the Court deems just
and appropri	iate.
	DEMAND FOR JURY TRIAL
Plaintiff respectfully requests a jury trial on all issues so triable.	
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Case5:10-cv-05545-RMW Document137 Filed01/10/12 Page12 of 12