

**UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION**

NANOCO TECHNOLOGIES LTD.,)	
)	
Plaintiff,)	Civil Action No. 2:20-cv-38
)	
v.)	JURY TRIAL DEMANDED
)	
SAMSUNG ELECTRONICS CO., LTD.,)	
SAMSUNG DISPLAY CO., LTD.,)	
SAMSUNG ADVANCED INSTITUTE OF)	
TECHNOLOGY,)	
SAMSUNG ELECTRONICS CO., LTD.,)	
VISUAL DISPLAY, and)	
SAMSUNG ELECTRONICS AMERICA,)	
INC.)	

**NANOCO TECHNOLOGIES LTD'S
COMPLAINT FOR PATENT INFRINGEMENT**

Plaintiff Nanoco Technologies Ltd. (“Nanoco” or “Plaintiff”) brings this Complaint for Patent Infringement (“Complaint”) and for Jury Trial against Samsung Electronics Co., Ltd., Samsung Display Co., Ltd., Samsung Advanced Institute of Technology, Samsung Electronics Co., Ltd. Visual Display Division, and Samsung Electronics America, Inc. (collectively, “Samsung” or “Defendant”). Nanoco alleges as follows:

THE PARTIES

1. Plaintiff Nanoco Technologies Ltd. is a corporation organized and existing under the laws of the United Kingdom with a place of business at 46 Grafton Street, Manchester, M13 9NT, United Kingdom.

2. Nanoco is the sole owner of, and possesses all rights, interests, and title of, U.S. Patent No. 7,588,828 (“the ’828 patent”) (attached as Exhibit 1), U.S. Patent No. 7,803,423 (“the

'423 patent") (attached as Exhibit 2), U.S. Patent No. 7,867,557 ("the '557 patent") (attached as Exhibit 3), U.S. Patent No. 8,524,365 ("the '365 patent") (attached as Exhibit 4) and U.S. Patent No. 9,680,068 ("the '068 patent") (attached as Exhibit 5).

3. On information and belief Defendant Samsung Electronics Co., Ltd. is a corporation organized and existing under the laws of the Republic of Korea with a principal place of business at 129 Samsung-Ro, Yeongtong-Gu, Suwon, Gyeonggi, 16677, Korea.

4. On information and belief Defendant Samsung Display Co., Ltd. is a wholly owned subsidiary company of Samsung Electronics Co., Ltd. organized and existing under the laws of the Republic of Korea with a principal place of business at 1 Samsung-Ro, Giheung-Gu, Yongin-City, Gyeonggi-Do 17113, Korea.

5. On information and belief Defendant Samsung Advanced Institute of Technology is Samsung Electronics Co., Ltd.'s research and development hub, established as an incubator for technology innovation with a principal location at 130, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16678, Korea.

6. On information and belief Defendant Samsung Electronics Co., Ltd. Visual Display Division is a wholly owned subsidiary company of Samsung Electronics Co., Ltd., organized and existing under the laws of the Republic of Korea with a principal place of business at 416 Metan 3-Dong, Paldal-Gu Suwon, Gyeonggi, 31454, Republic of Korea.

7. On information and belief Defendant Samsung Electronics America, Inc. is a wholly owned subsidiary corporation of Samsung Electronics Co. Ltd. organized and existing under the laws of New York with a principal place of business at 85 Challenger Road, Ridgefield Park, New Jersey 07660. Samsung Electronics America, Inc. is registered to do business in Texas and has maintained regular and established places of business with offices and/or other

facilities in this Judicial District of Texas at least at 6625 Excellence Way Plano, Texas 75023 and 1301 E. Lookout Drive, Richardson, Texas 75082.

8. Samsung Electronics America, Inc. may be served through its registered agent for service of process, CT Corporation System, 1999 Bryan St., Suite. 900, Dallas, Texas 75201.

9. On information and belief, Samsung Electronics Co., Ltd is liable for any act for which Samsung Display Co., Ltd., Samsung Advanced Institute of Technology, Samsung Electronics Co., Ltd. Visual Display Division, or Samsung Electronics America, Inc. and its subsidiaries would be or would have been liable, including for any infringement alleged in this matter, and references herein to Samsung Display Co., Ltd. or Samsung Electronics America, Inc. should be understood to encompass such acts by Samsung Electronics Co. Ltd.

JURISDICTION AND VENUE

10. This is an action for patent infringement arising under the patent laws of the United States, Title 35 of the United States Code § 1, *et seq.* Accordingly, this Court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338(a).

11. This Court has specific personal jurisdiction over Defendants at least in part because Defendants conduct business in this Judicial District. Nanoco's causes of action arise, at least in part, from Defendant's contacts with and activities in the State of Texas and this Judicial District. Upon information and belief, the Defendants have committed acts of infringement within the State of Texas and this Judicial District by, *inter alia*, directly and/or indirectly making, using, selling, offering to sell, or importing products that infringe one or more claims of Nanoco's U.S. Patent Nos. 7,588,828; 7,803,423; 7,867,557; 8,524,365; and 9,680,068. Defendants' infringing acts within this Judicial District give rise to this action and have established minimum contacts with the forum state of Texas.

12. Defendants conduct business in this District and maintain regular and established places of business within this District. For example, Samsung has maintained regular and established places of business with offices and/or other facilities in this Judicial District of Texas at least at 6625 Excellence Way Plano, Texas 75023 and 1301 E. Lookout Drive, Richardson, Texas 75082. *See e.g., Samsung, Samsung Electronics America to Open Flagship North Texas Campus* (2018), available at <https://news.samsung.com/us/samsung-electronics-america-open-flagship-north-texas-campus/>. On information and belief, Defendants have placed or contributed to placing infringing products including, but not limited to, Samsung's QLED TVs into the stream of commerce knowing or understanding that such products would be sold and used in the United States, including in this Judicial District. On information and belief, Samsung also has derived substantial revenues from infringing acts in this Judicial District, including from the sale and use of infringing products including, but not limited to, Samsung's QLED TVs.

13. Defendants have established minimum contacts with this forum such that the exercise of jurisdiction over Defendants would not offend traditional notions of fair play and substantial justice.

14. Venue in this Judicial District is proper as to Samsung Electronics Co., Ltd., Samsung Display Co., Ltd., Samsung Electronics Co., Ltd. Visual Display Division, and Samsung Advanced Institute of Technology under 28 U.S.C. § 1391(c)(3) because they are foreign corporations. *In re HTC Corp.*, 889 F.3d 1349, 1354 (Fed. Cir. 2018).

15. Venue in this Judicial District is also proper as to Samsung Electronics America, Inc. under 28 U.S.C. §§ 1391(b), (c) and 1400(b) because it has (1) committed and continues to commit acts of patent infringement in this Judicial District by, *inter alia*, directly and/or indirectly using, selling, offering to sell, or importing products that infringe one or more claims

of U.S. Patent Nos. 7,588,828; 7,803,423; 7,867,557; 8,524,365; and 9,680,068 and (2) has done and continue to do business in this Judicial District by maintaining regular and established places of business at least at 6625 Excellence Way Plano, Texas 75023 and 1301 E. Lookout Drive, Richardson, Texas 75082. *In re Cray Inc.*, 871 F.3d 1355, 1362-63 (Fed. Cir. 2017).

FACTUAL BACKGROUND

16. Nanoco established its research and manufacturing headquarters in 2001, and since then has been a leading innovator in nanoparticle and quantum dot technology.

17. Originally born from a university research group, Nanoco has since transformed into a pioneer in the quantum dot industry as a result of innovating in the areas of heavy metal free quantum dots and “molecular seeding” processes for the large-scale synthesis of quantum dots.

18. Nanoco’s heavy metal-free quantum dots mitigate health risks presented by the use of quantum dots containing cadmium, mercury, lead and chromium in commercial applications.

19. Nanoco also solved a key problem related to quantum dots: the unique capability to scale-up from lab to volume production.

20. Quantum dots created using Nanoco’s patented innovations have improved the visual aspects of consumer electronic display devices and made their large-scale synthesis and implementation commercially viable. Accordingly, quantum dots created by Nanoco’s patented innovations have become fundamental components of many premium LED TV models.

21. In recognition of its innovations, Nanoco has been awarded hundreds of patents, and, to date, has amassed one of the largest intellectual property portfolios in quantum dot technology.

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