

IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF DELAWARE

ELM 3DS INNOVATIONS, LLC, a
Delaware limited liability company,

Plaintiff,

v.

SAMSUNG ELECTRONICS CO., LTD., a
Korean business entity,
SAMSUNG SEMICONDUCTOR, INC., a
California corporation,
SAMSUNG ELECTRONICS AMERICA,
INC., a New York corporation,
SAMSUNG TELECOMMUNICATIONS
AMERICA, LLC, a Delaware limited
liability company, and
SAMSUNG AUSTIN SEMICONDUCTOR,
LLC, a Delaware limited liability company,

Defendants.

C.A. No. _____

Jury Trial Demanded

COMPLAINT FOR PATENT INFRINGEMENT

Plaintiff Elm 3DS Innovations, LLC (“Plaintiff” or “Elm 3DS”), by its attorneys,
for its complaint against Defendants Samsung Electronics Co., Ltd., and its U.S.
subsidiaries and related entities Samsung Semiconductor, Inc., Samsung Electronics
America, Inc., Samsung Telecommunications America, LLC, and Samsung Austin
Semiconductor, LLC (individually or collectively “Defendants” or “Samsung”) hereby
alleges as follows:

INTRODUCTION

1. This is an action for patent infringement under the Patent Laws of the
United States, 35 U.S.C. § 1 et seq., for infringing the following Elm 3DS patents:

- (a) U.S. Patent No. 7,193,239 ("Leedy '239 patent"), entitled "*Three Dimensional Structure Integrated Circuit*," owned by Elm 3DS Innovations, LLC (attached as Ex. 1);
- (b) U.S. Patent No. 7,504,732 ("Leedy '732 patent"), entitled "*Three Dimensional Structure Memory*," owned by Elm 3DS Innovations, LLC (attached as Ex. 2);
- (c) U.S. Patent No. 8,035,233 ("Leedy '233 patent"), entitled "*Adjacent Substantially Flexible Substrates Having Integrated Circuits That Are Bonded Together By Non-Polymeric Layer*," owned by Elm 3DS Innovations, LLC (attached as Ex. 3);
- (d) U.S. Patent No. 8,410,617 ("Leedy '617 patent"), entitled "*Three Dimensional Structure Memory*," owned by Elm 3DS Innovations, LLC (attached as Ex. 4);
- (e) U.S. Patent No. 8,629,542 ("Leedy '542 patent"), entitled "*Three Dimensional Structure Memory*," owned by Elm 3DS Innovations, LLC (attached as Ex. 5);
- (f) U.S. Patent No. 8,653,672 ("Leedy '672 patent"), entitled "*Three Dimensional Structure Memory*," owned by Elm 3DS Innovations, LLC (attached as Ex. 6);
- (g) U.S. Patent No. 8,796,862 ("Leedy '862 patent"), entitled "*Three Dimensional Structure Memory*," owned by Elm 3DS Innovations, LLC (attached as Ex. 7);

- (h) U.S. Patent No. 8,824,159 (“Leedy ’159 patent”), entitled “*Three Dimensional Structure Memory*,” owned by Elm 3DS Innovations, LLC (attached as Ex. 8);
- (i) U.S. Patent No. 8,841,778 (“Leedy ’778 patent”), entitled “*Three Dimensional Structure Memory*,” owned by Elm 3DS Innovations, LLC (attached as Ex. 9).

2. The Elm 3DS patents cover foundational semiconductor technologies in the design and manufacture of three-dimensional integrated circuits such as memory, processors, and image sensors. These fundamental technologies reduce manufacturing costs while improving speed and efficiency. Among other things, the Elm 3DS patents disclose technologies that enable semiconductor manufacturers to stack multiple integrated circuits (“die”) on top of one another within one integrated circuit package, and to form interconnect circuitry for communication among the stacked die, including interconnect circuitry passing through silicon substrates in stacked integrated circuits.

3. Samsung has infringed and continues to infringe the Elm 3DS patents, directly and indirectly, by making using, selling, offering for sale, and/or importing into the United States, semiconductor products with multiple stacked die and/or electronics products containing the same; and by encouraging third parties to use, sell, offer for sale, and/or import into the United States, Samsung semiconductor products with multiple stacked die and/or electronics products containing the same, with knowledge of the Elm 3DS patents and in the infringement resulting therefrom.

THE PARTIES

4. Elm 3DS Innovations, LLC, is a Delaware limited liability company with its principal address at 26147 Carmelo Street, Carmel, California 93923. Elm 3DS owns patents, originally issued to its President, inventor Glenn J. Leedy, covering Mr. Leedy's groundbreaking technology for thinning, vertically stacking and interconnecting integrated circuits.

5. Samsung Electronics Co., Ltd. ("SEC") is a Korean business entity that lists its global headquarters as 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea. On information and belief, SEC is the global leader in the electronics market, which includes computer memory and consumer electronics products such as mobile phones and tablet computers. On information and belief, SEC is the second largest semiconductor manufacturer in the world, and the leader in DRAM, NAND Flash, solid state drives ("SSDs"), mobile DRAM and graphics memory. On information and belief, SEC designs, manufactures, has manufactured, uses, offers for sale, sells and/or imports into the United States—including into Delaware—billions of dollars of computer memory and consumer electronics each year.

6. Samsung Electronics America, Inc. ("SEA") is a New York corporation that lists its headquarters as 85 Challenger Road, Ridgefield Park, New Jersey 07660. SEA is a wholly-owned subsidiary of SEC. On information and belief, SEA markets, uses, offers for sale, sells and/or imports into the United States—including into Delaware—various electronics products including, plasma TVs and cameras; computer monitors, laser printers and solid state drives; and handheld wireless smartphones.

7. Samsung Semiconductor, Inc. (“SSI”) is a California corporation that lists its headquarters as 3655 North First Street, San Jose, California 95134. SSI is a wholly-owned subsidiary of SEC. On information and belief, SSI manufactures, has manufactured, uses, offers for sale, sells and/or imports into the United States – including into Delaware – various semiconductor products including DRAM, NAND Flash, SSDs, mobile DRAM, graphics memory, and system logic.

8. Samsung Telecommunications America, LLC (“STA”) is a Delaware limited liability company that lists its headquarters as 1301 East Lookout Drive, Richardson, Texas 75082. STA is a wholly-owned subsidiary of SEC and SEA. On information and belief, STA markets, sells, or offers for sale, and/or imports into the United States – including into Delaware – a variety of personal and business communication devices, including mobile phones and tablet computers.

9. Samsung Austin Semiconductor, LLC (“SAS”) is a Delaware limited liability company that lists its headquarters as 12100 Samsung Boulevard, Austin, TX 78754. On information and belief, SAS operates as a subsidiary of SSI. On information and belief, SAS operates a semiconductor fabrication plant in Austin, TX, where it manufactures, has manufactured, uses, offers for sale, sells and/or imports into the United States – including into Delaware – NAND flash memory and system logic.

JURISDICTION

10. This is an action for patent infringement, over which this Court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338(a).

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