

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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SAMSUNG ELECTRONICS CO., LTD.,  
SAMSUNG ELECTRONICS AMERICA, INC., and GOOGLE LLC,  
Petitioner,

v.

SCRAMOGE TECHNOLOGY LTD.,  
Patent Owner.

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IPR2022-00284  
Patent 9,997,962 B2

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Before JAMESON LEE, KARL D. EASTHOM, and  
AARON W. MOORE, *Administrative Patent Judges*.

EASTHOM, *Administrative Patent Judge*.

DECISION  
Granting Institution of *Inter Partes* Review  
35 U.S.C. § 314

## I. INTRODUCTION

Samsung Electronics Co. Ltd., Samsung Electronics America, Inc., and Google LLC (collectively “Petitioner”) filed a Petition (Paper 1, “Pet.”) requesting an *inter partes* review of claims 1–8, 18, and 19 of U.S. Patent No. 9,997,962 B2 (Ex. 1001, the “’962 patent”). Scramoge Technology Ltd. (“Patent Owner”) filed a Preliminary Response (Paper 8, “Prelim. Resp.”). Petitioner filed a Preliminary Reply to Patent Owner’s Preliminary Response (Paper 9, “Pet. Prelim. Reply”) and Patent Owner filed a Preliminary Sur-reply (Paper 11, “PO Prelim. Sur-reply”) to address discretionary denial issues.

We have authority to determine whether to institute an *inter partes* review. *See* 35 U.S.C. § 314 (2018); 37 C.F.R. § 42.4(a) (2020). Institution of an *inter partes* review requires that “the information presented in the petition and . . . any response . . . shows that there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition.” 35 U.S.C. § 314(a). For the reasons set forth below, we determine that there is a reasonable likelihood that Petitioner will prevail with respect to at least one challenged claim. Accordingly, we institute an *inter partes* review of the ’962 patent.

## II. BACKGROUND

### A. *Real Parties in Interest*

The parties identify themselves as real parties in interest. Pet. 1; Paper 6, 2.

### B. *Related Matters*

The parties identify the following proceedings as related matters involving the ’962 patent: *Scramoge Ltd. v. Samsung Electronics Co., Ltd.* No., 6:21-cv-0454-ADA (filed Apr. 30, 2021, W.D. Tex.) (“Samsung

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District Court proceeding”); *Scramoge Technology Ltd. v. Google LLC*, No. 6:21-cv-0616-ADA (filed June 15, 2021, W.D. Tex.) (“Google District Court proceeding”); *Scramoge Technology Ltd. v. Apple Inc.*, No. 6:21-cv-0579-ADA (filed June 7, 2021, W.D. Tex., transferred to ND Cal., May 17, 2022, now No. 5:22-cv-03041) (“Apple District Court proceeding”); *See* Paper 6, 2–3; Pet. 1–2.

The parties identify *Apple Inc. v. Scramoge Technology Ltd.*, IPR2022-00120 (PTAB October 29, 2021) (instituted May 4, 2021 on claims 1–4, 7, 8, 18, and 19 of the ’962 patent) (“Apple-120IPR”) as involving the ’962 patent. Other proceedings involving related patents follow: *Apple Inc. v. Scramoge Technology Ltd.*, IPR2022-00117 (PTAB October 29, 2021); *Apple Inc. v. Scramoge Technology Ltd.*, IPR2022-00118 (PTAB October 29, 2021); *Apple Inc. v. Scramoge Technology Ltd.*, IPR2022-00119 (PTAB October 29, 2021); *Samsung Electronics Co. Ltd., and Samsung Electronics America, Inc. v. Scramoge Technology Ltd.*, IPR2022-00185 (PTAB November 12, 2021); *Samsung Electronics Co. Ltd., and Samsung Electronics America, Inc. v. Scramoge Technology Ltd.*, IPR2022-00241 (PTAB November 30, 2021). *See* Paper 6 at 2–3; Pet. 1.

### C. The ’962 Patent

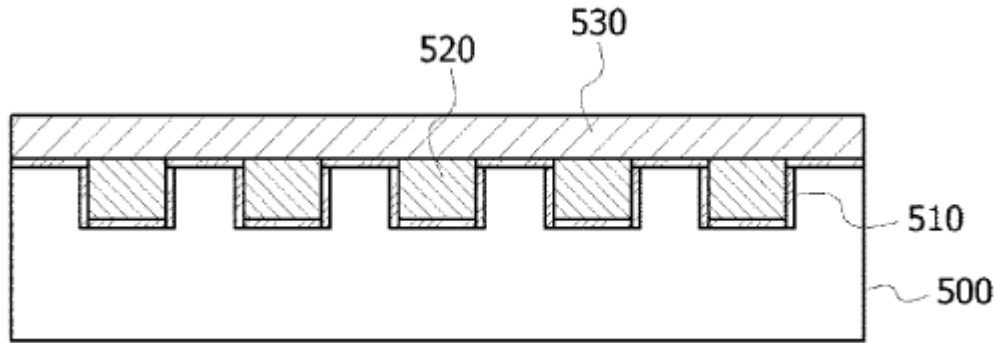
The ’962 patent relates to a wireless charging device using a transmitting primary coil coupled via electromagnetic induction to a receiving secondary coil for charging a power supply in household electronic products and other products. *See* Ex. 1001, code (57), 1:24–21.

[A]n embodiment of the present invention includes a substrate, a soft magnetic layer stacked on the substrate, and a receiving coil configured to receive electromagnetic energy emitted from a wireless power transmission device, wound in parallel with a plane of the soft magnetic layer, and formed inside of the soft

magnetic layer, and an insulating layer is formed between the soft magnetic layer and the receiving coil.

*Id.* at code (57).

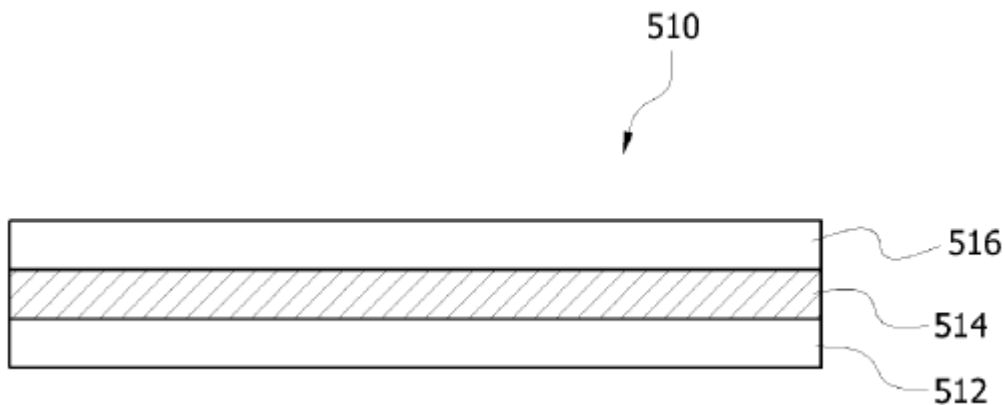
Figure 5 of the '962 patent follows:



'962 Patent's Figure 5

Figure 5 illustrates an example of “a soft magnetic layer and a receiving coil” as described above. Ex. 1001, 6:8–9. The embodiment includes “an adhesive layer 510 . . . formed on a soft magnetic layer 500 [and] a receiving coil 520 . . . formed on the adhesive layer 510.” *Id.* at 6:11–30. “[A] support means 530 is formed on the receiving coil 520 . . . and may have a form of film.” *Id.* at 6:14–17. As depicted by Figure 5, the highest position of the soft magnetic layer 500 is higher from an underlying substrate (not shown) than the lowest portion of the receiving coil 520. *See also id.* at 5:10–12 (describing a substrate 210).

Figure 6 of the '962 patent follows:



'962 Patent's Figure 6

Figure 6 illustrates an example of the adhesive layer 510 as described above, otherwise known as double-sided tape. *See* Ex. 1001, 6:42–45.

“[T]he adhesive layer 510 may have a double-sided structure including an insulating layer.” *Id.* at 6:37–38. Specifically, “the adhesive layer 510 may include a first adhesive layer 512, an insulating layer 514 formed [on] the first adhesive layer 512, and a second adhesive layer 516 formed on the insulating layer.” *Id.* at 6:42–45.

As collectively depicted by Figures 5 and 6, adhesive layer 510 forms a double-sided configuration including first 512 and second 516 adhesive layers that sandwich an insulating layer 514 and mount the receiving coil 520 to the soft magnetic layer 500. *Id.* at 6:42–45. The insulating layer 514 “may include . . . polyethylene terephthalate (PET) material.” *Id.* at 6:47.

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