

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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APPLE INC.,  
Petitioner,

v.

SCRAMOGE TECHNOLOGY LTD.,  
Patent Owner.

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IPR2022-00120  
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*.

JUDGMENT  
Final Written Decision  
Determining All Challenged Claims Unpatentable  
*35 U.S.C. § 318(a)*

## I. INTRODUCTION

Apple Inc. (“Petitioner”) filed a Petition (Paper 2, “Pet.”) supported by the Declaration of Dr. Joshua Phinney (Ex. 1003) requesting an *inter partes* review of claims 1–4, 7, 8, 18, and 19 (“challenged claims”) of U.S. Patent No. 9,997,962 B2 (Ex. 1001, the “’962 patent”). Scramoge Technology Ltd. (“Patent Owner”) filed a Preliminary Response (Paper 6, “Prelim. Resp.”).<sup>1</sup>

After the Institution Decision (Paper 9, “Inst. Dec.”), Patent Owner filed a Response (Paper 14, “PO Resp.”), and a Declaration of Dr. David S. Ricketts (Ex. 2016); Petitioner filed a Reply (Paper 19); and Patent Owner filed a Sur-reply (Paper 21). Thereafter, the parties presented oral arguments via a video Oral Hearing, and a transcript thereof is in the record. Paper 29 (“Tr.”). For the reasons set forth in this Final Written Decision pursuant to 35 U.S.C. § 318(a), we determine that Petitioner demonstrates by a preponderance of evidence that the challenged claims are unpatentable.

## II. BACKGROUND

### A. *Real Parties in Interest*

The parties identify themselves as real parties in interest. Pet. 62; Paper 4, 2.

### B. *Related Matters*

The parties identify the following proceedings as related matters involving the ’962 patent: *Scramoge Tech. Ltd. v. Apple Inc.*, No. 6:21-cv-0579-ADA (W.D. Tex.); *Scramoge Tech. Ltd. v. Samsung Electronics Co.*,

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<sup>1</sup> The parties also filed additional briefing authorized by the Board to address a discretionary denial issue not relevant to this Final Written Decision. Papers 7, 8.

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*Ltd.*, No. 6:21-cv-0454-ADA (W.D. Tex.); *Scramoge Tech. Ltd. v. Google LLC*, No. 6:21-cv-0616-ADA (W.D. Tex.). *See* Paper 4, 2; Pet. 62.

The following *inter partes* review proceeding involves the '962 patent: *Samsung Electronics Co., Ltd. vs Scramoge Technology Ltd.*, IPR2022-00284 (PTAB December 7, 2021). The following *inter partes* review proceedings involve related patents: *Apple Inc. v. Scramoge Tech. Ltd.*, IPR2022-00117, Paper 9 (PTAB May 22, 2022) (institution decision); *Apple Inc. v. Scramoge Tech. Ltd.*, IPR2022-00118, Paper 9 (PTAB May 22, 2022) (institution decision); *Apple Inc. v. Scramoge Tech. Ltd.*, IPR2022-00119, Paper 8 (PTAB Jan. 31, 2022) (terminated). *See* Paper 4, 2.

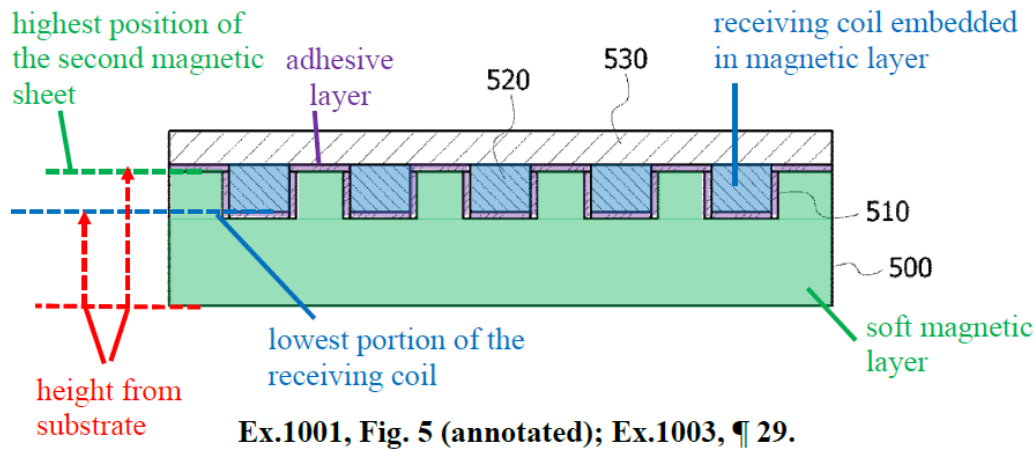
### C. The '962 Patent

The '962 patent relates to a wireless secondary coil device that receives electromagnetic energy from a primary coil for charging a power supply in household electronic products and other products. *See* Ex. 1001, code (57), 1:24–31.

[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, as annotated by Petitioner, follows  
(Pet. 8):



Annotated Figure 5 of the '962 patent, above, illustrates a secondary (receiving) antenna coil and magnetic layer configuration, including “adhesive layer 510 . . . formed on a soft magnetic layer 500 [and] a receiving coil 520 . . . formed on the adhesive layer 510,” with “receiving coil 520 . . . disposed on the upper surface of the soft magnetic layer 500.” Ex. 1001, 6:11–30. “[T]he 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 depicted and annotated by Petitioner, the highest position of a second magnetic sheet (shown above as soft magnetic layer 500) is higher relative to a substrate (not depicted but located at the bottom of the figure) than the lowest portion of receiving coil 520. *See infra* § II.D, claim 1, limitation 1.6.

An example of the insulating layer between the two adhesive layers is “polyethylene terephthalate (PET) material.” Ex. 1001, 6:47. The '962

specification refers to the multi-layer adhesive as “double-sided.” *Id.* at 6:37–38.

Figure 6 of the '962 patent, as annotated by Petitioner, follows (Pet. 8–9):

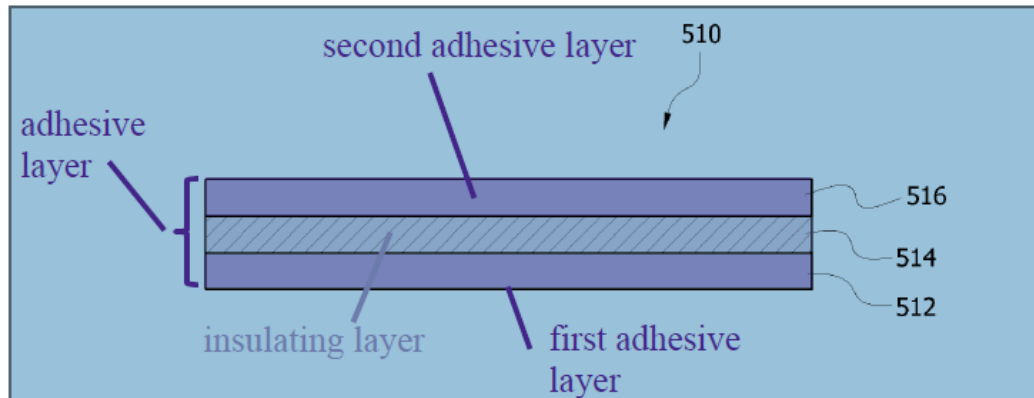


Figure 6 above illustrates a double-sided adhesive tape with first 512 and second 516 adhesive layers sandwiching insulating layer 514. *See* Ex. 1001, 6:42–45.

#### *D. Illustrative Claim*

Independent claim 1 follows:

- [1.0] A wireless power receiving antenna comprising:
  - [1.1] a substrate;
  - [1.2] a soft magnetic layer comprising a first magnetic sheet disposed on the substrate and a second magnetic sheet disposed on the first magnetic sheet;
  - [1.3] a receiving coil disposed on the second magnetic sheet; and
  - [1.4] an adhesive layer formed between the second magnetic sheet and the receiving coil,
  - [1.5] wherein the adhesive layer includes a first adhesive layer in contact with the second magnetic sheet, a second adhesive layer in contact with the receiving coil, and an

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