

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SAMSUNG ELECTRONICS CO., LTD. AND
SAMSUNG ELECTRONICS AMERICA, INC.,

Petitioners,

v.

HARBOR ISLAND DYNAMIC, LLC,

Patent Owner.

Patent No. 9,245,826

Filing Date: January 27, 2014

Issue Date: January 26, 2016

Inventors: Hadi Jebory, David J. Howard, and Scott B. Stetson
Title: ANCHOR VIAS FOR IMPROVED BACKSIDE METAL
ADHESION TO SEMICONDUCTOR SUBSTRATE

**PATENT OWNER'S RESPONSIVE BRIEF
AS TO CLAIM CONSTRUCTION**

Case No. IPR2024-01405

TABLE OF AUTHORITIES

Page(s)

Cases

<i>Revvo Techs., Inc. v. Cerebrum Sensor Techs., Inc.</i> , IPR2025-00632, Paper No. 20 (Director Nov. 3, 2025).....	3
<i>Tesla, Inc. v. Intell. Ventures II LLC</i> , IPR2025-00340, Paper 18 (Director Nov. 5, 2025).....	2

EXHIBIT LIST

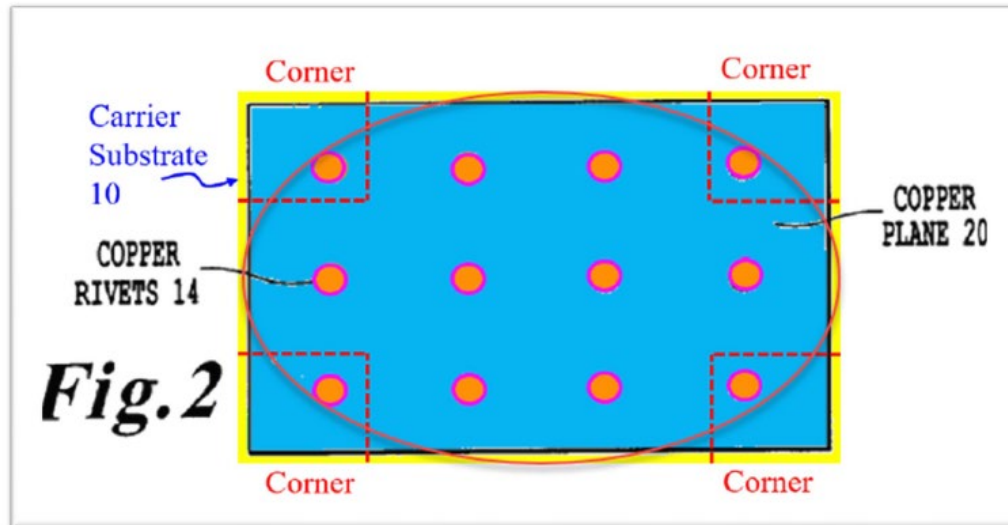
Exhibit No.	Description of Document
2001	Docket Control Order, Dkt. 38, in <i>Harbor Island Dynamic, LLC v. Samsung Elecs. Co.</i> , Case No. 2:24-cv-00140-JRG-RSP (E.D. Tex. Aug. 5, 2024)
2002	Order Denying Samsung’s Motion to Stay Pending <i>Inter Partes</i> Review, Dkt. 62, in <i>Harbor Island Dynamic, LLC v. Samsung Elecs. Co.</i> , Case No. 2:24-cv-00140-JRG-RSP (E.D. Tex. Dec. 19, 2024)
2003	Defendants’ Invalidity Contentions, served on September 26, 2024, in <i>Harbor Island Dynamic, LLC v. Samsung Elecs. Co.</i> , Case No. 2:24-cv-00140-JRG-RSP (E.D. Tex.)
2004	Declaration of John Berg
2005	CV of John Berg
2006	“Die Singulation Technologies for Advanced Packaging: A Critical Review” (Lei 2012)
2007	“3D vs 2D Modeling of the Effect of Die Size on Delamination in Encapsulated IC Packages” (Ho et al., 2013)
2008	“Optimizing Die Corner and Optical Groove Corner Crackstop Support Structures for Mitigating Dicing and CPI Risks” (Rabie et al., 2021)
2009	Deposition of Scott E. Thompson, taken June 9, 2025

In the District Court, Petitioner argued that the “claims, specification, and file history fail to inform a POSITA with reasonable certainty, what qualifies as ‘in’ a corner.” Ex. 1038, ¶ 47. However, in this proceeding, Petitioner had no difficulty concluding that its prior art references disclosed the claimed anchor via “disposed in a corner.” Petitioner seeks to excuse its inconsistent positions by arguing that it is merely “the *outer boundary*” of the term that is indefinite, and that the outer boundary is not relevant. Paper 28, 1. In other words, the Board need merely agree with Petitioner that its prior art has a via in the corner and not trouble itself with determining where that corner starts and ends.

Indeed, Petitioner’s argument is based entirely on its unsupported premise that all its cited prior art has anchor vias indisputably in corners. Reply, 1-4. But, as shown in Patent Owner’s Response, the outer boundary of the term is highly relevant to whether its primary reference—*Conn*—anticipates the claims. The Board should disregard Petitioner’s self-serving explanation for its inconsistent positions.

Petitioner’s arguments as to *Conn* demonstrate its gamesmanship. Petitioner argued that the corner limitation is met by: i) drawing rectangles on *Conn*’s Fig. 2 and ii) stating that, since *Conn*’s rivets were within those arbitrarily drawn areas, they must be in the corner. POR, 33-36. But, as Patent Owner explained, the proper construction of the term “disposed in a corner” is “located outside a round or ovoid

geometrical shape inscribed within the edges of the semiconductor die.” POR, 18-25. *Conn*’s rivets are located inside such a shape and thus not disposed in a corner.



POR, 37. Far from being irrelevant, the “outer boundary” of what is “disposed in the corner” is potentially *dispositive* as to anticipation.

Petitioner’s explanation for the differences in its positions is thus insufficient. Indeed, this case is drastically different from the example stated in *Tesla, Inc. v. Intell. Ventures II LLC*, IPR2025-00340, Paper 18 (Director Nov. 5, 2025). There, the Director stated that simultaneously arguing indefiniteness in the District Court while proposing plain meaning in the PTAB might be justified if the limitation at issue “prescribed a range and only the outer bounds of the range were unclear.” *Id.*, 3-4. In other words, if the claim recited a range (such as “from 0 to substantially 3”) and the prior art was indisputably in that range (e.g., if the prior art’s value was 1), then the potential indefiniteness of “substantially 3” would not be an issue. This

case, where the outer boundary of the corner is in dispute at least as to *Conn*, is different.

Thus, by presenting a narrower claim construction to the District Court (i.e., indefiniteness, wherein infringement is impossible) and a broader construction to the Board (not indefinite as to Petitioner's art), Petitioner is running afoul of the rules "designed to ensure that the Board correctly construes claim terms and to minimize inconsistency in claim construction between forums." *Revvo Techs., Inc. v. Cerebrum Sensor Techs., Inc.*, IPR2025-00632, Paper No. 20 at 4 (Director Nov. 3, 2025) (precedential).

Respectfully submitted,

Dated: December 12, 2025 By: /Joseph M. Mercadante /
Joseph M. Mercadante (Reg. No. 64,077)
Lead Counsel for Patent Owner
FABRICANT LLP
411 Theodore Fremd Avenue,
Suite 206 South
Rye, New York 10580
Tel. 212-257-5797
Fax. 212-257-5796
Email: jmercadante@fabricantllp.com

CERTIFICATE OF SERVICE

A copy of Patent Owner's RESPONSIVE BRIEF AS TO CLAIM
CONSTRUCTION has been served on Petitioner's counsel of record as follows:

Joshua L. Goldberg
Email: joshua.goldberg@finnegan.com
Alexander E. Harding
Email: alexander.harding@finnegan.com
Chen Zang
Email: chen.zang@finnegan.com
**FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, LLP**
901 New York Avenue NW
Washington, DC 20001-4413

Abhay A. Watwe
Email: abhay.watwe@finnegan.com
Biju I. Chandran
Email: biju.chandran@finnegan.com
**FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, LLP**
1875 Explorer Street, Suite 800
Reston, VA 20190-6023

Shawn S. Chang
Email: shawn.chang@finnegan.com
**FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, LLP**
271 17th Street, NW, Suite 1400
Atlanta, GA, 30363-6209

*Attorneys for Samsung Electronics Co., Ltd.;
Samsung Electronics America, Inc.*

IPR2024-01405
PATENT NO. 9,245,826

December 12, 2025

By: /Joseph M. Mercadante /
Joseph M. Mercadante (Reg. No. 64,077)
Lead Counsel for Patent Owner