Paper No.	
-----------	--

UNITED STATES PATENT AND TRADEMARK OFFICE

\_\_\_\_\_

BEFORE THE PATENT TRIAL AND APPEAL BOARD

\_\_\_\_

Hutchinson Technology Incorporated Hutchinson Technology Operations (Thailand) Co., Ltd. Petitioners

v.

Nitto Denko Corporation Patent Owner

Patent No. 8,895,870 Issue Date: Nov. 25, 2014

Title: PRINTED CIRCUIT BOARD AND METHOD OF MANUFACTURING THE SAME

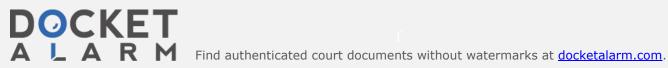
Inter Partes Review No. IPR2017-01421

## PETITIONER'S REVISED OPPOSITION TO PATENT OWNER'S MOTION TO AMEND



## **Table of Contents**

I.	Intr	oduction	.1
II.	Clai	im Construction for Substitute Claim 5	.2
III.	Nitto's Motion Should Be Denied On Section 112 Grounds		
	<b>A.</b>	Nitto Failed to Establish Support for the "All Flush" Edges Limitation of Substitute Claim 5	.3
		1. Nitto's Expert's Testimony on the "Flush" Edges Limitatio	
		2. The Concept of "Flush" Edges Does Not Appear Anywhere in the Specification	•
		3. The '870 Drawings do not Disclose "Flush" Edges	.5
		4. The Specification's "Cut Off" Step Does Not Establish Support for "Flush" Edges	.7
	В.	Nitto Failed to Establish Support for the "Lead Wire Extending from Said Wiring Trace" Limitation of Substitute Claim 5	.9
	C.	The Original Disclosure Failed to Describe the "Edge Formed On" Limitations of Substitute Claim 51	.1
	D.	Even if Disclosed, Claim 5 is Not Enabled1	2
		1. Nitto's Silence on Enablement Defeats its Motion1	. 2
		2. The Only (Minimal) Manufacturing Teaching is the Term "Cut Off" Which is Insufficient for Enablement	.3
		3. Conventional Cutting Methods Would Not Result in the "All Flush" Edges1	4
	E.	Substitute Claim 5 is Indefinite1	7
IV.	Sub	stitute Claim 5 is Unpatentable2	20



## Table of Contents (continued)

			Page
	A.	Substitute Claim 5 is Obvious over Ishizawa and Chou	20
	B.	Substitute Claim 5 is Obvious over Ohsawa and Ishii	22
	<b>C.</b>	Nitto Failed to Consider its Own <i>Known</i> Prior Art Relative to Claim 5	23
V.	Ohs	awa is Not Subject to 103(c)(1) Disqualification	24
VI	Con	clusion	26



### I. Introduction

Nitto's Motion to Amend ("Motion") does not satisfy the legal requirements for the relief sought. Nitto no longer disputes that its own prior art anticipates Claim 2. So, Nitto now proposes Substitute Claim 5, adding a limitation requiring the various layers have edges "all flush with each other." Paper No. 16 at 3.

But nothing in the original disclosure explains the relationship between the "all flush" edges and the plating leads' resonant frequency, the problem allegedly overcome by the '870 patent. *See* 1001. In fact, the original disclosure never even mentions the terms "flush" or "edge." According to Nitto, Substitute Claim 5 is supported by a "schematic" illustration intended to explain the **orientation** of the multiple layers -- not what occurs at their micron-scale edges.

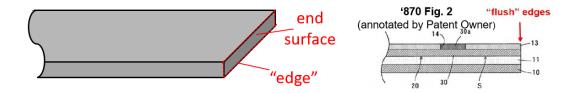
Contrary to Nitto's assertions, the record does not establish the inventors possessed the "all flush" limitation at the time Nitto filed for the '870 Patent – or even thought of it. Instead, the record establishes the opposite: that Nitto created the "all flush" concept from thin air in the midst of the present IPR proceeding. In doing so, Nitto has created a Section 112 quagmire for itself, implicating the written description, enablement, and indefiniteness requirements on several fronts. In short, the "all flush" limitation presents a classic example of an "IPR Invention" the Board's rules on amendment prohibit.



### II. Claim Construction for Substitute Claim 5

Nitto proposes no constructions. HTI proposes constructions for two terms in Claim 5: (1) "edge" and (2) "all flush with each other." Paper No. 16 at 3.

"the edges": Nitto's briefing and reliance on Fig. 2 shown below (for example) indicate Nitto uses the term "edges" to refer to what are actually end surfaces.



Paper 16 at 9. While much of HTI's briefing assumes the same, HTI does not agree "edges" can properly be construed as referring to end surfaces. Instead the ordinary meaning and proper construction of "edge" refers to the intersection of two surfaces, as illustrated in the red dotted line above 1014 ¶ 21.1

"all flush with each other": The phrase "all flush with each other" requires that the end surfaces of each of the claimed "cover insulating," "lead wire for plating" and "insulating" layers be perfectly aligned. Or, if not "perfectly" aligned, then this limitation renders Substitute Claim 5 indefinite. See Section III(E) below.

DOCKET A L A R M

Find authenticated court documents without watermarks at docketalarm.com.

<sup>&</sup>lt;sup>1</sup> The original disclosure from August 2009 does not use the word "edge" in relation to a layer or any physical components. 2001.

# DOCKET

## Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

#### API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

#### **LAW FIRMS**

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

#### **FINANCIAL INSTITUTIONS**

Litigation and bankruptcy checks for companies and debtors.

## **E-DISCOVERY AND LEGAL VENDORS**

Sync your system to PACER to automate legal marketing.

