#### IN THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF TEXAS AUSTIN DIVISION

BELL SEMICONDUCTOR, LLC,  Plaintiff  -v-	§ § A-20-CV-00611-ADA §
NXP SEMICONDUCTORS, N.V., NXP, B.V., NXP USA, INC.  Defendant	
BELL SEMICONDUCTOR, LLC, PLAINTIFF	§ § § W-20-cv-00296-ADA
-V-	8
MICROCHIP TECHNOLOGY, INC., MICROSEMI CORPORATION Defendant	\$ \$ \$

#### **CLAIM CONSTRUCTION ORDER**

The Court scheduled two *Markman* hearings, on April 1, 2021 and April 16, 2021. The April 1 *Markman* hearing concerned patents that were asserted against both NXP and Microchip while the April 16 *Markman* hearing concerned patents that were asserted against a single Defendant. During the April 1 hearing, the Court provided its final constructions.

With respect to the April 16 hearing, after receiving the Court's preliminary constructions, the parties informed the Court that they did not wish to have an oral hearing and would stand on their briefing. As such, the Court canceled the April 16 hearing and made the preliminary constructions its final constructions. The Court now enters those claim constructions.

**SIGNED** this 14th day of April, 2021.

ALAN D ALBRIGHT UNITED STATES DISTRICT JUDGE

# Terms for Patents Asserted against Both NXP and Microchip

Term	Plaintiff's Proposed Construction	Defendants' Proposed Construction	Court's Final Construction
"cutout" / "cutouts"  ('340 Patent, Claims 1, 3, 4, 6, 12, 13, 17, 18; '269 Patent, Claims 1, 3, 4, 6, 7, 10, 11, 13)  Proposed by Defendants	No construction necessary, plain and ordinary meaning.  In the alternative, to the extent the Court determines that a specific construction is warranted, Bell Semic proposes:  "a portion of the conductive layer that has been removed from the layer"	"portion(s) of the overall structure that is (are) formed by the active removal of material that would have otherwise been present but for the express purpose of reducing parasitic capacitance in the structure" and "the absence of metallization in a specific area of a conductive layer"	"the absence <sup>1</sup> of metallization in a specific area of a conductive layer"  1 – Note not for the jury: "absence of metallization" does not require a "complete absence of metallization"
"electrically insulating area"  ('340 Patent, Claims 1, 4; '269 Patent, Claims 1, 4, 10, 11)  Proposed by Defendants	No construction necessary, plain and ordinary meaning.	"area devoid of electrically conductive material and devoid of vias"	"an area devoid¹ of an electrical conductor"  ¹ – Note not for the jury: "devoid" does not require a "complete absence" of an electrical conductor, but said electrical conductor material must be floating

"each electrically insulating area completely overlaps a corresponding one of the contact pads"	No construction necessary, plain and ordinary meaning.	"each electrically insulating area completely overlaps only one contact pad"	Plain-and-ordinary meaning.
('340 Patent, Claim 1; '269 Patent, Claim 1)			
"cutouts each of which encloses an electrically insulating area and completely overlaps one of the contact pads"		"cutouts each of which encloses an electrically insulating area and completely overlaps only one of the contact pads"	
('340 Patent, Claim 4)			
"each of the cutouts overlapping a corresponding one of the electrical contacts"		"each of the cutouts overlapping only one of the electrical contacts"	
('340 Patent, Claim 12)			
"each cutout completely overlaps a corresponding one of the electrical contacts"  ('340 Patent, Claim 13)		"each of the cutouts completely overlaps only one of the electrical contacts"	
"each cutout completely overlaps a corresponding one of the electrical contacts"  ('340 Patent, Claim 17)		"each cutout completely overlaps only one of the electrical contacts"	

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Term	Plaintiff's Proposed Construction	Defendants' Proposed Construction	Court's Final Construction
Proposed by Microchip			
"forming the cutouts to completely overlap corresponding electrical contacts"	No construction necessary, plain and ordinary meaning.	"forming the cutouts to completely overlap only one electrical contact"	Plain-and-ordinary meaning.
('269 Patent, Claim 13)			
Proposed by Microchip			

"[such that] there is substantially no overlap of rows of [contact pads with metal in the second electric conductive layer]"	[contact pads / electrical	Indefinite  Alternatively, "such that there is no overlap of the rows of [pads/electrical contacts] with vias in the	Not indefinite. Plain-and- ordinary meaning.
('340 Patent, Claim 1; '269 Patent, Claim 1)		second/third/plurality of electrically conductive layer(s)"	
"[such that] there is substantially no overlap of rows of [contact pads with metal in the third electricall conductive layer]"		layer(s)	
('340 Patent, Claim 4; '269 Patent, Claims 4, 7)			
"[such that] there is substantially no overlap of rows of [electrical contacts with metal in the plurality of electrically conductive layer	f		
('340 Patent, Claim 12)			
"[such that] there is substantially no overlap of a rows of [contact pads with metal in the plurality of electrically conductive laye			
('269 Patent, Claim 10)			

Term	Plaintiff's Proposed Construction	Defendants' Proposed Construction	Court's Final Construction
Proposed by all parties			
"A method, comprising steps of: forming a first layer including a plurality of rows of electrical contacts"  ('269 Patent, Claim 1)  "A method, comprising steps of: forming a first electrically conductive layer including a plurality of rows of contact pads"  ('269 Patent, Claim 10)	No construction necessary, plain and ordinary meaning.	This first method step in cl. 1/cl. 10 must precede the other method steps.	The method steps may be performed in any order.
Proposed by Microchip			
"wherein the oxide film is used as an etch stop layer"	No construction necessary, plain and ordinary meaning.	"wherein etching of the block dielectric layer stops on the oxide film"	Plain-and-ordinary meaning.
('669 Patent, Claim 1)		Onide IIIII	
Proposed by Defendants			

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Term	Plaintiff's Proposed Construction	Defendants' Proposed Construction	Court's Final Construction
"low temperature oxide film"	No construction necessary, plain and ordinary meaning.	Indefinite	Not indefinite. Plain-and-ordinary meaning.
('669 Patent, Claim 6)		Alternatively, "an oxide film in the temperature range of 350	
Proposed by Microchip		to 500 degrees Celsius"	
"making a partial cut in the leadframe"	No construction necessary, plain and ordinary meaning	"making a cut in the leadframe where the leadframe is not cut through in its thickness	"the leadframe is not cut through in its thickness direction"
('007 Patent, Claim 1)		direction (nor in any other directions) and the depth of the	
Proposed by Microchip		cut is smaller than the thickness of the leadframe"	

# Terms for Patents Asserted against NXP only

Term	Plaintiff's Proposed Construction	Defendants' Proposed Construction	Court's Final Construction
"method of manufacturing a semiconductor device,	Not indefinite	Indefinite	Not indefinite. Preamble is not limiting.
comprising"	Preamble is limiting	Alternatively, Preamble is nonlimiting	-
('129 Patent, Claim 1)			
[Proposed by Defendant]			
"nickel/chromium/iron alloy"	"alloy with the three dominant elements being nickel,	Plain and ordinary meaning	Plain-and-ordinary meaning.
('129 Patent, Claim 6)	chromium, and iron"		
[Proposed by Plaintiff]			
"metal reinforcing layer formed under and in contact	No construction necessary, plain and ordinary meaning.	"reinforcing layer comprised of one or more metals under	Plain-and-ordinary meaning.
with the wire bonding pad"		and in contact with the wire bonding pad"	
('836 Patent, Claim 1)			
[Proposed by Defendant]			
"brittle inter-level dielectric"	"low-k dielectric"	"inter-level dielectric that is brittle and not deposited by	Plain-and-ordinary meaning.
('836 Patent, Claim 1)		plasma-enhanced CVD"	
[Proposed by Defendant]		Alternatively, indefinite	

# **Terms for Patents Asserted against Microchip only**

Term	Plaintiff's Proposed Construction	Defendants' Proposed Construction	Court's Final Construction
"region for performing said bumping process" and "probe region for performing a wafer test prior to performing said bumping process"  ('173 Patent, Claim 9)	No construction necessary, plain and ordinary meaning.	§ 112(6), means-plus-function  Functions: (1) performing said bumping process; and (2) performing a wafer test prior to performing said bumping process, respectively	Not subject to § 112, ¶ 6. Plain-and-ordinary meaning.
[Proposed by Defendant]		Structure: (1) bumping region defined by passivation opening; and (2) probing region defined by passivation opening, respectively	

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Term	Plaintiff's Proposed	Defendants' Proposed	Court's Final Construction
	Construction	Construction	
"further comprising forming a	No construction necessary,	further comprising forming a	Plain-and-ordinary meaning.
Si—Ge layer on the exposed	plain and ordinary meaning.	Si—Ge layer on the exposed	
portion of the silicon		portion of the silicon substrate,	
substrate" / "further		the Si—Ge layer different than	
comprising"		the Si—Ge deposited on the	
		silicon substrate	
('132 Patent, Claim 5)			
		Alternatively: plain and	
[Proposed by Defendant]		ordinary meaning so long as	
		the jury is informed that (1)	
		"depositing Si—Ge" and (2)	
		"forming a Si—Ge layer" are	
		two separate method steps1	
		Alternatively: "further	
		comprising" means "including	
		the additional step of"	