IN THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF PENNSYLVANIA

CARNEGIE MELLON UNIVERSITY,)
Plaintiff, v.)) Civil Action No. 09-290
MARVELL TECHNOLOGY GROUP, LTD., and MARVELL SEMICONDUCTOR, INC.,)))
Defendants.)
VERDICT	<u>FORM</u>
Based on the evidence admitted at trial and	in accordance with the instructions as given
by the Court, we, the jury, unanimously agree to the	e answers to the following questions:
A. QUESTIONS AS TO DIRECT INFRING	<u>GEMENT</u>
1. Has CMU proven by a preponderance of chips literally infringe Claim 4 of the '839	
"Yes" finds for CMU and "No" finds for M	arvell.
YES	NO
Proceed to Question #2.	
2. Has CMU proven by a preponderance of simulators literally infringe Claim 4 of th	
"Yes" finds for CMU and "No" finds for M	arvell.
YES	NO
Proceed to Question #3.	
•	NO

3.	Has CMU proven by a preponderance of the evidence that Marvell': NLD-Type chips literally infringe Claim 4 of the '839 Patent?				
	"Yes" finds for CMU and "No" finds for Marvell.				
	YES NO				
	Proceed to Question #4.				
4.	. Has CMU proven by a preponderance of the evide simulator literally infringes Claim 4 of the '839 Pa				
	"Yes" finds for CMU and "No" finds for Marvell.				
	YES NO				
	Proceed to Question #5.				
5.	. Has CMU proven by a preponderance of the evide simulator literally infringes Claim 4 of the '839 Pa				
	"Yes" finds for CMU and "No" finds for Marvell.				
	YES NO _	·			
	Proceed to Question #6.				
6.	. Has CMU proven by a preponderance of the evide chips literally infringe Claim 2 of the '180 Patent?				
	"Yes" finds for CMU and "No" finds for Marvell.				
	YES NO				
	Proceed to Question #7.				
7.	. Has CMU proven by a preponderance of the evide simulators literally infringe Claim 2 of the '180 Par				
	"Yes" finds for CMU and "No" finds for Marvell.				
	YES NO				
	Proceed to Question #8.				

8.	B. Has CMU proven by a preponderance of the evidence that Marvell' NLD-Type chips literally infringe Claim 2 of the '180 Patent'?					
	"Yes" finds for CMU and "No" finds for	Marvell.				
	YES	NO _				
	Proceed to Question #9.					
9.	9. Has CMU proven by a preponderance simulator literally infringes Claim 2 or			rvell's NLD-Typ	e	
	"Yes" finds for CMU and "No" finds for	Marvell.				
	YES	NO	and the same of th			
	Proceed to Question #10.					
10	10. Has CMU proven by a preponderance simulator literally infringes Claim 2 or			rvell's Kavcic-V	iterb	
	"Yes" finds for CMU and "No" finds for	Marvell.				
	YES	NO				
	Proceed to Question #11.					
В.	B. QUESTIONS AS TO INDIRECT INF	RINGEME	<u>T</u>			
11	11. Has CMU proven by a preponderance least one of its customers or an end us United States with the following produ	er to infringe				
	"Yes" finds for CMU and "No" finds for	Marvell.				
	MNP-Type chips YE	s	NO			
	NLD-Type chips YE	s <u>√</u>	NO			
	Proceed to Question #12.					

1 68	s" finds for CMU and "No	" finds for Marvell.		
	MNP-Type chips	YES	NO	
	NLD-Type chips	YES	NO	
Proc	eed to Question #13.			
least		an end user to infringe	ce that Marvell has induce Claim 2 of the '180 Patent	
"Yes	" finds for CMU and "No	" finds for Marvell.		
	MNP-Type chips	YES	NO	
	NLD-Type chips	YES	NO	
Proc	eed to Question #14.			
14. Has	CMU proven by a prepo	nderance of the eviden	ce that Marvell has contri or an end user, of Claim 2 products?	
14. Has to th '180	CMU proven by a prepo e infringement, by at lea	nderance of the eviden st one of its customer; tes with the following p	or an end user, of Claim 2	
14. Has to th '180	CMU proven by a prepo e infringement, by at lea Patent in the United Sta	nderance of the eviden st one of its customer; tes with the following p	or an end user, of Claim 2	
14. Has to th '180	CMU proven by a prepose infringement, by at lease Patent in the United Star in the United	nderance of the eviden st one of its customers tes with the following p "finds for Marvell.	or an end user, of Claim 2 products?	
14. Has to th '180 "Yes	CMU proven by a preporte infringement, by at lear Patent in the United Start finds for CMU and "No" MNP-Type chips NLD-Type chips	nderance of the eviden st one of its customers tes with the following properties of the state of the eviden state of the evide	or an end user, of Claim 2 products?	of the
14. Has to th '180 "Yes	CMU proven by a preporte infringement, by at least Patent in the United States in finds for CMU and "No" MNP-Type chips NLD-Type chips u answered "Yes" to any or	nderance of the eviden st one of its customers tes with the following properties of Questions 1 through 1	or an end user, of Claim 2 oroducts? NO NO	of the

C. **QUESTIONS AS TO INVALIDITY**

15. Has Marvell proven by clear and convincing evidence that CMU's asserted patent claims are invalid because they are anticipated by prior art?

Claim 4 of the '839 Patent

YES _____ NO ____

Claim 2 of the '180 Patent

YES NO

Proceed to Question#16.

16. Has Marvell proven by clear and convincing evidence that CMU's asserted patent claims are invalid because they would have been obvious at the time the invention was made?

"Yes" finds for Marvell and "No" finds for CMU.

"Yes" finds for Marvell and "No" finds for CMU.

Claim 4 of the '839 Patent

YES _____ NO ____

Claim 2 of the '180 Patent

YES _____ NO ____

*If you answered "Yes" to Question #15 and/or Question #16 and have found that both Claim 4 of the '839 Patent and Claim 2 of the '180 Patent are invalid, skip the remaining questions (leave them blank) and move to the instructions on Page 9.

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17. If you find that Marvell infringed either Claim 2 of the '180 Patent, or both Claim 4 of the '839 Patent and Claim 2 of the '180 Patent, and you found the infringed claim or claims to be valid, what amount of damages do you award CMU for the use of the patented methods?

s 1,169,140,271

*If you have answered Question #17, skip Question #18 (leave it blank) and proceed to Question#19. If you did not answer Question #17, move to Question #18.

18. If you find that Marvell infringed only Claim 4 of the '839 Patent, and you found that claim to be valid, what amount of damages do you award CMU for the use of the patented method? In answering this question, you must take into account that CMU cannot collect damages from before its filing of this lawsuit on March 6, 2009 for the '839 Patent.

9	b .	
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*If you awarded damages in response to either Question #17 or Question #18, move to Question #19. If you did not award any damages in response to either Question #17 or Question #18, skip the remaining questions (leave them blank) and move to the instructions on Page 9.

E. **QUESTIONS AS TO WILLFULNESS**

19. Did Marvell have actual knowledge of the '180 Patent prior to commencement of this lawsuit (in other words, prior to March 6, 2009)?

YES	√	NO	

*If you answered NO, skip Questions #20 and #21 (leave them blank) and move to Question #22. Otherwise, proceed to Question #20.

20				nd prior to commencement of this lawsuit, able defense to CMU's claim of	
	"Yes" finds for I	Marvell and "N	lo" finds for	or CMU.	
	YES _		NO		
	*If you answered	d NO, proceed	to Question	n #21. Otherwise, skip Questic n #21 (leave t	
	blank) and move	to Question #	22.		
21	Marvell actually of the '180 Pate	y knew or sho nt?	uld have kn	o you find clear and convincing evidence the mown that its actions would infringe Claim	
	"Yes" finds for (,			
	YES _		NO		
	Proceed to Ques	tion #22.			
22.	Did Marvell have this lawsuit (in		_	he '839 Patent prior to commencement of arch 6, 2009)?	
	YES		NO		
	*If you answered	d NO, skip the	remaining q	questions (leave them blank) and move to the	
	instructions on P	age 9. Otherw	rise, proceed	ed to Question #23.	
23.				d prior to commencement of this lawsuit, able defense to CMU's claim of	
	"Yes" finds for M	Marvell and "N			
	YES _	***************************************	NO		
	*If you answered	l NO, proceed	to Question	n #24. Otherwise, skip the remaining question	
	(leave it blank) a	nd move to the	e instructions	ns on Page 9.	

24.	I. If Marvell learned of the '839 Patent, do you find clear and convinc n	g evidence	hat
	Marvell actually knew or should have known that its actions would in	fringe Cla	Da .
	4 of the '839 Patent?		

"Yes"	finds fo	or CMU and "No"	' finds for Ma	arvell.	
	YES	\checkmark	NO		
	1110				

^{*}Please proceed to the instructions on Page 9.

You have now reached the end of the verdict form and should review it to ensure it accurately reflects your unanimous determination.

All jurors should sign and date the verdict form in the spaces below and notify the Bailiff that you have reached a verdict.

The Foreperson should retain possession of the verdict form and bring it to the courtroom when the jury is brought back into the courtroom.

Foreperson

Xailacela aluelleans

X Dad Fisher

x Heather ast

DATED: DEC 36, 2012

x Kily J. H. 12 K

x Vida Komer)

x Bu J. Suchelik