Apple Inc. v. Samsung Electronics Co. Ltd. et al

Exhibit 13

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EXHIBIT 18 FILED UNDER SEAL

Page 1 1 IN THE UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF CALIFORNIA 2 SAN JOSE DIVISION 3 CASE NO. 11 CV 01846 LHK 4 APPLE, INC, a California 5 corporation, 6 Plaintiff, 7 VS. 8 SAMSUNG ELECTRONICS CO., LTD., 9 a Korean business entity; SAMSUNG ELECTRONICS AMERICA, INC., 10 a New York corporation; SAMSUNG TELECOMMUNICATIONS AMERICA, LLC, 11 a Delaware limited liability company, 12 Defendants. 13 14 15 HIGHLY CONFIDENTIAL 16 ATTORNEYS' EYES ONLY 17 DEPOSITION OF JOSHUA STRICKON, PH.D. 18 Miami, Florida Thursday, October 20, 2011 19 20 21 22 Reported by: 23 DARLINE MARIE WEST, RPR, FRP, CLR 24 Job No. 42680 25

TSG Reporting Worldwide 877 702 9580

Highly Confidential Attorneys' Eyes Only

	Page 54		Page 55
1	Ω Well first of all it's the 3D cameras are	1	BY MS DUCCA.
2	those 3-dimensional cameras, the types of cameras	2	O Let's talk briefly about the Mitsubishi
2	we've spoken about?	3	DiamondTouch you said?
4	Δ Veah	4	A Uh-huh
5	Ω Not a touchscreen?	5	O What is the Mitsubishi DiamondTouch device?
6	A No	6	A It's a tableton large touchscreen that
7	A. 100. O How about Sony SmartScan? Is that a	7	enables multiple people to touch the screen at the
8	touchscreen device?		same time. And distinguish who is actually touching
g	MR BAROLUST: Objection Lacking	G	Same time. And distinguish who is actuarly touching. O So then it detects multitouch?
10	foundation	10	MR BAROUIST: Objection Vague and
11	THE WITNESS. It's a touch sensing	1 1	ambiguous
12	device	12	THE WITNESS: It detects a single touch
12 12	BV MS DUCCA:	13	from multiple people
ц ј 1 Л	O What type of touch technology does it use?	1 4	BV MS_DUCCA:
15	MP PAPOLIST: Objection Looks	15	O So L could have my hand on it and you can
16	foundation	16	base your hand on it and it will detect both of our
17	THE WITNESS: In reading the paper, it	17	touches?
1 Q	appears that it uses mutual capacitance	1 8	
19	BV MS DUCCA:	19	Ω . What if I had both of my hands on it?
20	O In reading the paper did it detect	20	MR BAROUIST: Objection Lacks
20	Q. In reading the paper, did it detect multitouch?	21	foundation Vague and ambiguous Calls for
27 22	MR BAROLUST: Objection Lacking	22	expert testimony
22	foundation vague and ambiguous	22	THE WITNESS: My experience, using the
20	THE WITNESS. Voc	21	device, it actually since it uses
24	THE WITNESS. Tes.	24	projection scan, it will actually give you
20		E J	projection scan, it will actually give you
		-	
	Page 56		Page 57
1	Page 56 four points because there's an ambiguity	1	Page 57 and columns.
1 2	Page 56 four points because there's an ambiguity between whether you're touching one wire or	1 2	Page 57 and columns. Q. Okay.
1 2 3	Page 56 four points because there's an ambiguity between whether you're touching one wire or the other wire.	1 2 3	Page 57 and columns. Q. Okay. A. And you read the rows and then you read the
1 2 3 4	Page 56 four points because there's an ambiguity between whether you're touching one wire or the other wire. BY MS. DUCCA:	1 2 3 4	Page 57 and columns. Q. Okay. A. And you read the rows and then you read the columns. So you have these lines that are projected
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1 2 3 4 5 6	Page 56 four points because there's an ambiguity between whether you're touching one wire or the other wire. BY MS. DUCCA: Q. You actually use the Mitsubishi DiamondTouch?	1 2 3 4 5 6	Page 57 and columns. Q. Okay. A. And you read the rows and then you read the columns. So you have these lines that are projected across the surface. So you end up with a profile of the self-capacitance in a vertical, in a single X
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 22 23 24	 Page 56 four points because there's an ambiguity between whether you're touching one wire or the other wire. BY MS. DUCCA: Q. You actually use the Mitsubishi DiamondTouch? A. Yes. Q. When did you use the Mitsubishi DiamondTouch? A. Probably at a conference, sometime before then. Or during school when I visited their lab. Q. Where's their lab located? A. It's closed. Q. Oh, where was their lab located? A. Cambridge, Massachusetts. Q. Was there a particular contact that you met with? A. Paul Dietz. Q. Now, what type of technology did you say that the DiamondTouch used? A. It's projective capacitive it's projection scan capacitive sensing. Q. What do you mean by "projective scan capacitive sensing"? 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24	Page 57 and columns. Q. Okay. A. And you read the rows and then you read the columns. So you have these lines that are projected across the surface. So you end up with a profile of the self-capacitance in a vertical, in a single X axis and then a single Y axis. And from that you can overlay the two sets of data to determine X and Y locations of a point. Q. I think you answered this. You said it used self-capacitive technology and mutual capacitance? A. Yes. Q. Was it strike that. All right. Let's talk a little bit about the Microsoft Surface product. I should back up. You said you used the DiamondTouch product. Have you ever used the SmartSkin product? A. No. Q. Now, the Microsoft Surface product, have you ever used the Microsoft Surface product? A. Yes. Q. Did you use the Microsoft Surface product before it became Microsoft Surface?



	Page 202		Page 203
1	Λ Because it says in here that it's they	1	\mathbf{O} Not in the course of your work at Apple?
2	A. Decause it says in here that it's they talk about the the trace orient the trace		A No.
2	geometry, the layers stack up, as well as the fact	3	A. NO. O. Were you familiar with the Clear Pad
1	that this is calf appointence, which is determined by		Q. Were you familiar with the Creat Fad
5	a longuage in the noner which states that concer is	5	
5	a language in the paper which states that sensor is		A. NO.
07	detecting change and a trace capacitance to free		Q. Do you know A. K. Leeper?
/	space. That implies that it's self-capacitance.		A. NO.
8	Q. Where do you see that statement?	8	(Strickon Deposition Exhibit 788, Document
9	A. On page 30301 in the in the first	9	entitled SmartSkin: An Infrastructure for Freehand
10	paragraph right there.	10	Manipulation on Interactive Surfaces, was marked for
	Q. The first paragraph		identification.)
12	A. The first incomplete paragraph.	12	BY MS. DUCCA:
13	Q. On the second column?	13	Q. I've marked as Exhibit 788 a document with
14	A. On the second column. It says, "Because	14	Bates number APLND C71287 to 71294. Does this
15	the sensor is detecting change in a traces	15	document look familiar to you?
16	capacitance to free space."	16	A. Yes.
17	Q. Okay.	17	Q. When did you last see this document?
18	A. "Sensor can only detect objects that can	18	MR. BARQUIST: Objection. Instruct the
19	significantly add trace capacitance."	19	witness not to answer to the extent it would
20	Q. Now, you previously testified that you're	20	involve the disclosure of attorney-client
21	familiar with the company Synaptics, correct?	21	communications or activity at the direction
22	A. Yeah.	22	of counsel, if any.
23	Q. Have you ever met with Synaptics or anybody	23	THE WITNESS: Outside of any privileged
24	at Synaptics?	24	session, the last time I saw this was at the
25	A. No.	25	deposition that I gave in August.
	Page 204		Page 205
1	Page 204	1	Page 205
1	Page 204 BY MS. DUCCA:	1	Page 205 mutual-capacitance, correct?
1 2	Page 204 BY MS. DUCCA: Q. Now, you were familiar with the SmartSkin	1 2	Page 205 mutual-capacitance, correct? MR. BARQUIST: Objection. Lacks
1 2 3	Page 204 BY MS. DUCCA: Q. Now, you were familiar with the SmartSkin product before you filed the patent application in	1 2 3	Page 205 mutual-capacitance, correct? MR. BARQUIST: Objection. Lacks foundation. Calls for expert opinion.
1 2 3 4	Page 204 BY MS. DUCCA: Q. Now, you were familiar with the SmartSkin product before you filed the patent application in became the '607 patent, correct?	1 2 3 4	Page 205 mutual-capacitance, correct? MR. BARQUIST: Objection. Lacks foundation. Calls for expert opinion. THE WITNESS: Yes. My understanding
1 2 3 4 5	Page 204 BY MS. DUCCA: Q. Now, you were familiar with the SmartSkin product before you filed the patent application in became the '607 patent, correct? MR. BARQUIST: Objection. Lacks	1 2 3 4 5	Page 205 mutual-capacitance, correct? MR. BARQUIST: Objection. Lacks foundation. Calls for expert opinion. THE WITNESS: Yes. My understanding and my experience with the sorts of devices
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1 2 3 4 5 6 7 8 9	Page 204 BY MS. DUCCA: Q. Now, you were familiar with the SmartSkin product before you filed the patent application in became the '607 patent, correct? MR. BARQUIST: Objection. Lacks foundation. THE WITNESS: I was familiar with SmartSkin. It wasn't a product, though. BY MS. DUCCA:	1 2 3 4 5 6 7 8 9	Page 205 mutual-capacitance, correct? MR. BARQUIST: Objection. Lacks foundation. Calls for expert opinion. THE WITNESS: Yes. My understanding and my experience with the sorts of devices is that it is a mutual-capacitance. BY MS. DUCCA: Q. Okay. Let's take a look at Figure 2, which is on the page with Bates No. 71288, and this figure
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$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\0\\1\\1\\2\\1\\1\\6\\1\\1\\8\\9\\0\\1\\1\\2\\0\\2\\1\end{array}$	Page 204 BY MS. DUCCA: Q. Now, you were familiar with the SmartSkin product before you filed the patent application in became the '607 patent, correct? MR. BARQUIST: Objection. Lacks foundation. THE WITNESS: I was familiar with SmartSkin. It wasn't a product, though. BY MS. DUCCA: Q. You were familiar with the Sony SmartSkin, though, correct? MR. BARQUIST: Objection. Lacks foundation. THE WITNESS: Yes. BY MS. DUCCA: Q. Did you ever meet Rekimoto, who's the author of this article? A. No. Q. You're you're aware and you know that SmartSkin is a capacitive touch sensor, correct? MR. BARQUIST: Objection. Lacks	1 2 3 4 5 6 7 8 9 10 11 23 14 15 16 17 18 20 21	 Page 205 mutual-capacitance, correct? MR. BARQUIST: Objection. Lacks foundation. Calls for expert opinion. THE WITNESS: Yes. My understanding and my experience with the sorts of devices is that it is a mutual-capacitance. BY MS. DUCCA: Q. Okay. Let's take a look at Figure 2, which is on the page with Bates No. 71288, and this figure is captioned "The SmartSkin Sensor Configuration," a mesh-shaped grid is used to determine the hands position and shape. This shows a grid of electrodes, right? MR. BARQUIST: Objection. Calls for expert opinion. THE WITNESS: From my familiarity with the paper and what's described here, it appears to to show a grid of electrodes is on a different layer, correct?
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$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\0\\1\\1\\2\\1\\1\\1\\6\\1\\1\\2\\2\\2\\2\\2\\2\\2\\4\end{array}$	Page 204 BY MS. DUCCA: Q. Now, you were familiar with the SmartSkin product before you filed the patent application in became the '607 patent, correct? MR. BARQUIST: Objection. Lacks foundation. THE WITNESS: I was familiar with SmartSkin. It wasn't a product, though. BY MS. DUCCA: Q. You were familiar with the Sony SmartSkin, though, correct? MR. BARQUIST: Objection. Lacks foundation. THE WITNESS: Yes. BY MS. DUCCA: Q. Did you ever meet Rekimoto, who's the author of this article? A. No. Q. You're you're aware and you know that SmartSkin is a capacitive touch sensor, correct? MR. BARQUIST: Objection. Lacks foundation. THE WITNESS: Yes. BY MS. DUCCA:	1 2 3 4 5 6 7 8 9 10 11 23 14 15 16 17 18 9 20 21 22 3 24	 Page 205 mutual-capacitance, correct? MR. BARQUIST: Objection. Lacks foundation. Calls for expert opinion. THE WITNESS: Yes. My understanding and my experience with the sorts of devices is that it is a mutual-capacitance. BY MS. DUCCA: Q. Okay. Let's take a look at Figure 2, which is on the page with Bates No. 71288, and this figure is captioned "The SmartSkin Sensor Configuration," a mesh-shaped grid is used to determine the hands position and shape. This shows a grid of electrodes, right? MR. BARQUIST: Objection. Calls for expert opinion. THE WITNESS: From my familiarity with the paper and what's described here, it appears to to show a grid of electrodes is on a fiferent layer, correct? MR. BARQUIST: Objection. Lacks foundation. Vague and ambiguous. THE WITNESS: It doesn't show here

	Page 214		Page 215
1	the first not such a full paragraph in the second	1	MR. BAROUIST: Objection. Instruct the
2	column. It actually starts in the first column.	2	witness not to disclose the contents of any
3	Would you read that paragraph, and let me	3	attorney-client communications or
4	know when you're finished.	4	discussions. Subject to that instruct, he
5	A. Okay.	5	may answer.
6	Q. So the SmartSkin is able to recognize	6	THE WITNESS: Outside of any privileged
7	multiple touches, correct?	7	conversations, I saw this at my last
8	MR. BARQUIST: Objection. Lacks	8	deposition.
9	foundation. Calls for expert opinion	9	BY MS. DUCCA:
10	testimony. Vague and ambiguous.	10	Q. Had you seen this patent before your last
11	THE WITNESS: According to this	11	deposition?
12	paragraph, it says that I can recognize	12	A. No.
13	multiple objects; example, hands.	13	Q. Okay. Are you familiar with a company
14	BY MS. DUCCA:	14	called Entrig?
15	Q. Did you ever discuss the SmartSkin product	15	A. I think I've heard of it before.
16	with anybody at Sony?	16	Q. What is your understanding of what Entrig
17	MR. BARQUIST: Objection. Lacks	17	is?
18	foundation.	18	MR. BARQUIST: Objection. Lacks
19	THE WITNESS: No.	19	foundation.
20	(Strickon Deposition Exhibit 789, Patent,	20	THE WITNESS: From looking at the
21	was marked for identification.)	21	patent previously, I was under the
22	BY MS. DUCCA:	22	impression that they made potentially some
23	Q. Marked as Exhibit 789 a document with the	23	sort of capacitive sensor.
24	Bates numbers SAMNDCA 31524 to 31557. Have you seen	24	BY MS. DUCCA:
25	this patent before?	25	Q. Okay. I'm going to direct you to take a
	Page 216		Page 217
1	look at Figure 2, which is on the page with Bates	1	THE WITNESS: This paragraph says a
2	number 31528, and I'd also like you to take a look at	2	two-dimensional sensor matrix 20 lies, and
3	the associated description of Figure 2, which is in	3	transparent layer over an electronic display
4	column 13 on the page with Bates number 31550	4	device.
5	beginning at line 30.	5	BY MS. DUCCA:
6	Would you read that paragraph beginning at	6	Q. Now, do you see below it says, "At each
7	line 30 in column 13 associated with Figure 2, and	7	junction between two conductors a certain minimal
8	then let me know when you're finished.	8	amount of capacitance exists," and it goes on to say
9	A. Okay.	9	"A finger touches the sensor 20 at a certain position
10	Q. Okay. Now, looking at column 13, this	10	and increases the capacitance between the first
11	patent's describing a two-dimensional sensor matrix,	11	conductor line 24 on the orthogonal conductor line,
12	correct?	12	which happens to be at or closest to the touch
13	MR. BARQUIST: Objection. Calls for	13	position."
14 1 F	expert opinion testimony. The document	Ц4 4 г	Do you agree that that's talking about
10	speaks for itself.	15	measuring the capacitance between two conductor
10 17	THE WITNESS: Thaven't looked at this	17	Innes?
10 1			MR. BAROUIST: Objection. Calls for
1 Q	RV MS DUCCA:	10	expert opinion testimony
20	BY MS. DUCCA:	18 10	expert opinion testimony.
- 11	BY MS. DUCCA: Q. Did you read the paragraph in column 13 beginning at line 302	19 20	expert opinion testimony. THE WITNESS: This doesn't describe about measuring. It just describes the
21	BY MS. DUCCA: Q. Did you read the paragraph in column 13 beginning at line 30?	17 18 19 20 21	expert opinion testimony. THE WITNESS: This doesn't describe about measuring. It just describes the finger according to this document, that
21 22	BY MS. DUCCA: Q. Did you read the paragraph in column 13 beginning at line 30? A. Yeah.	18 19 20 21 22	expert opinion testimony. THE WITNESS: This doesn't describe about measuring. It just describes the finger according to this document, that increases increases the capacitance
20 21 22 23	BY MS. DUCCA: Q. Did you read the paragraph in column 13 beginning at line 30? A. Yeah. Q. Okay. Does that paragraph disclose a a two-dimensional sensor matrix?	18 19 20 21 22 23	expert opinion testimony. THE WITNESS: This doesn't describe about measuring. It just describes the finger according to this document, that increases increases the capacitance between the first conductor and the
21 22 23 24	 BY MS. DUCCA: Q. Did you read the paragraph in column 13 beginning at line 30? A. Yeah. Q. Okay. Does that paragraph disclose a a two-dimensional sensor matrix? MR. BAROUIST: Objection. Calls for 	1 7 1 8 1 9 2 0 2 1 2 2 2 3 2 4	expert opinion testimony. THE WITNESS: This doesn't describe about measuring. It just describes the finger according to this document, that increases increases the capacitance between the first conductor and the orthogonal conductor.

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	Page 230		Page 231
1	BY MS DUCCA:	1	contains a set of parallel conductors. The
2	O Marked as Exhibit 790 this is provisional	2	other layer contains a set of parallel
3	application for a patent Application 60/40662 Does	3	conductor orthogonal to the set of the first
4	this look familiar to you?		laver
5	Δ I've never seen this	5	BV MS DUCCA:
6	Ω Okay Would you turn to page 4 in this	6	O So both layers contain a set of parallel
0	Q. Okay. Would you turn to page 4 in this		Q. So both layers contain a set of parallel
0	document. You see where it says 4.2 sensor? Do you		MP DAPOLUST: Objection The desument
0	see that?		MR. BARQUIST: Objection. The document
9	A. Un-nun.	9	speaks for itself.
10	Q. Would you read that first paragraph and let	10	THE WITNESS: I believe that's what the
	me know when you're finished.	μ⊥	document says.
12	A. Okay.	<u>µ2</u>	BY MS. DUCCA:
13	Q. Okay. Would you agree with me that this	13	Q. Turn to the next page, to page 5. Take a
14	talks about two different layers of traces?	14	look at that first paragraph and read that to
15	MR. BARQUIST: Objection. Documents	15	yourself. Let me know when you're finished.
16	speaks for itself. Lacks foundation.	16	A. Okay.
17	THE WITNESS: It says right there the	17	Q. All right. So this document mentions that
18	grid is made of two layers.	18	ITO can be used as a conductive material, correct?
19	BY MS. DUCCA:	19	MR. BARQUIST: Objection. Document
20	Q. Would you agree with me that each of those	20	speaks for itself.
21	two layers contains conductors that are parallel to	21	THE WITNESS: The document says that
22	each other?	22	"The present invention sensor can be
23	MR. BARQUIST: Objection. Vague and	23	implemented on other transparent conductive
24	ambiguous. Lacks foundation.	24	materials such as ITO."
25	THE WITNESS: It says one of the layers	25	
	Page 232		Page 233
_	Page 232		Page 233
1	Page 232 BY MS. DUCCA:	1	Page 233 BY MS. DUCCA:
1 2	Page 232 BY MS. DUCCA: Q. Take a look in the last paragraph on that	1 2	Page 233 BY MS. DUCCA: Q. Feel free to read some of the paragraphs
1 2 3	Page 232 BY MS. DUCCA: Q. Take a look in the last paragraph on that page 5. Starts out "In one embodiment, the	1 2 3	Page 233 BY MS. DUCCA: Q. Feel free to read some of the paragraphs around that, if you'd like to get some context. Take
1 2 3 4	Page 232 BY MS. DUCCA: Q. Take a look in the last paragraph on that page 5. Starts out "In one embodiment, the transparent sensor." Do you see that? Read that	1 2 3 4	Page 233 BY MS. DUCCA: Q. Feel free to read some of the paragraphs around that, if you'd like to get some context. Take your time.
1 2 3 4 5	Page 232 BY MS. DUCCA: Q. Take a look in the last paragraph on that page 5. Starts out "In one embodiment, the transparent sensor." Do you see that? Read that paragraph and let me know had when you're finished.	1 2 3 4 5	Page 233 BY MS. DUCCA: Q. Feel free to read some of the paragraphs around that, if you'd like to get some context. Take your time. A. I mean, this is the first time seeing this.
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	Page 258		Page 259
1	A Not specifically	1	A Ves
2	O But do you recall the SmartSkin paper?	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	O And the only thing that the SmartSkin
3	A Yes	3	solution wasn't was transparent right?
4	O. Why do you recall the SmartSkin paper?	4	MR BAROUIST. Objection Vague and
5	A. I recall it because we were in talks with	5	ambiguous Lacks foundation
6	FingerWorks and potentially using their technology to	6	THE WITNESS: No. I mean beyond what
7	create a self-capacitance transparent	7	they show as strictly from the hardware
8	multitouchscreen, and I was never fully satisfied	8	standpoint, there was no information in that
9	with the that solution as it was seemed overly	9	with regard to the algorithms for detecting
10	complicated, expensive, and required numerous	10	the points and tracking the multiple points
11	components. So I was looking for a simpler way of	11	from frame to frame and all the signal
12	doing that.	12	processing that you would have to do to make
13	O. Why was the FingerWorks solution overly	13	this work on a transparent screen.
14	complicated?	14	Furthermore, it didn't talk about or
15	A. Essentially, instead of having a row and	15	address some of the specific noises.
16	column structure like we do in the '607 patent, it	16	characteristics that would be specific to
17	required having essentially every intersection be	17	the transparent screen. And also it didn't
18	directly tied to an IO pin. So, rather so,	18	discuss any of the optical problems that we
19	basically, squared the number of complexity of number	19	had to solve with regard to the transparent
20	of chips that we would need.	20	screen.
21	Q. So the the FingerWorks solution was	21	And Apple also imposed on us additional
22	self-capacitive, correct?	22	engineering requirements, design
23	A. Yes.	23	requirements, such as the the black mask
24	Q. And then the but the SmartSkin was	24	that went around the border to hide the
25	mutual-capacitive, correct?	25	cables, as well as the rounded corners that
	Page 260		Page 261
1	Page 260 they wanted on the glass.	1	Page 261 MR. BAROUIST: Objection.
1 2	Page 260 they wanted on the glass. BY MS. DUCCA:	1	Page 261 MR. BARQUIST: Objection. Argumentative. Lacks foundation. Asked and
1 2 3	Page 260 they wanted on the glass. BY MS. DUCCA: O. You never met with any of the people at	1 2 3	Page 261 MR. BARQUIST: Objection. Argumentative. Lacks foundation. Asked and answered.
1 2 3 4	Page 260 they wanted on the glass. BY MS. DUCCA: Q. You never met with any of the people at Sony who worked on SmartSkin, right?	1 2 3 4	Page 261 MR. BARQUIST: Objection. Argumentative. Lacks foundation. Asked and answered. THE WITNESS: I don't know what they've
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