CHRISTOPH HUBER 30(B)(1) - 01/29/2016

1 CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER 2 3 THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF DELAWARE 4 5 ENDOHEART AG, 6 Plaintiff,) Civil Action No. 7)1:14-cv-01473-LPS-CJB 8 v. 9 EDWARDS LIFESCIENCES CORPORATION, 10 Defendant.) -----) 11 12 13 Videotape Deposition of: CHRISTOPH H. HUBER, M.D. 14 15 30(b)(1) taken by BWH 16 Volume II - Pages 144 to 276 17 Date: January 29, 2016 18 Location: Paul Weiss - New York 19 Time: 8:00 a.m. 20 * * * 21 22 23 24 Reporter: 25 Greg DiDonato, CSR, RPR, CM, CP, CRR

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CHRISTOPH HUBER 30(B)(1) - 01/29/2016 Pages 145..148

1	Page 145 CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER	1	Page 147 CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER
2	Friday, January 29, 2016	2	P-R-O-C-E-E-D-I-N-G-S
3	8:00 A.M.	3	THE VIDEOGRAPHER: Now recording on
4		4	record. Today's date is January 29, 2016, the
5	Continued Videotape 30(b)(1)	5	time is 8:11 a.m. This is the beginning of
6	deposition of Christoph Hans Huber, M.D.,	6	volume II, file number 4, in the deposition of
7	pursuant to Notice, taken by BWH, held at the	7	Dr. Christoph Huber.
8	law offices of Paul Weiss Rifkind Wharton &	8	All counsel present will be noted on
9	Garrison LLP, 1285 Avenue of the Americas, New	9	the record by the court reporter.
10	York, New York 10019, before Gregory T.	10	I'll also remind the witness you're
11	DiDonato of DTI Court Reporting, Certified	11	still under oath.
12	Realtime Reporter and Notary Public of the	12	(Exhibit Defendant's 112, Document in
13	State of New York, there being present:	13	native format, EHT 15188, marked for
14	····· · · · · · · · · · · · · · · · ·	14	identification.)
15		15	CONTINUED EXAMINATION BY COUNSEL FOR INTERVENOR
16			
10 17		16	BY MR. ABRAMS:
		17	Q. Good morning, Dr. Huber.
18		18	A. Good morning.
19		19	Q. Yesterday we talked about some of the
20		20	procedures you had done while you were a
21		21	clinical surgeon at, your senior clinical
22		22	fellowship at Brigham & Women's Hospital.
23		23	Let me show you a document we'll mark
24		24	as Exhibit 112. It does not bear a Bates
25		25	number because it is produced in the native
	Page 146		Page 148
1	CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER	1	CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER
2 3	APPEARANCES: FOR THE PLAINTIFF AND THE WITNESS:	2	format, but this is found at EHT 15188, and
4	MARK BLOOMBERG, ESQ.	3	it's a multipage document, and I'll ask if you
	Zuber Lawler & Del Duca LLP	4	recognize this document?
5	420 Lexington Avenue	5	A. I think that's a continuation of the
6	Suite 2640 New York, NY 10170	6	document we looked at yesterday with
-	mbloomberg@zuberlaw.com	7	additional cases on it.
7		8	(Exhibit Defendant's 111, PREVIOUSLY
8 9	FOR THE DEFENDANT: CATHERINE NYARADY, ESO.	9	MARKED, used in the deposition.)
9	WILLIAM O'HARE, ESQ.	-	BY MR. ABRAMS:
10	Paul Weiss Rifkind Wharton & Garrison LLP	10	
	1285 Avenue of the Americas	11	Q. So, you're referring to, and I'll
11	New York, NY 10019	12	hand you Exhibit 111, which is the letter
	cnvaradv@paulweiss.com		
12	cnyarady@paulweiss.com wohare@paulweiss.com	13	dated October 29th, 2004 that had a series of
13	wohare@paulweiss.com	14	cases that had been done?
13 14	wohare@paulweiss.com FOR THE INTERVENOR:	14 15	cases that had been done? A. I think that's, yeah, I agree on
13 14	wohare@paulweiss.com	14	cases that had been done?
13 14 15	wohare@paulweiss.com FOR THE INTERVENOR: HUGH ABRAMS, ESQ.	14 15	cases that had been done? A. I think that's, yeah, I agree on
13 14 15 16	wohare@paulweiss.com FOR THE INTERVENOR: HUGH ABRAMS, ESQ. Sidley Austin LLP One South Dearborn Chicago, IL 60603	14 15 16	cases that had been done? A. I think that's, yeah, I agree on that.
13 14 15 16 17	wohare@paulweiss.com FOR THE INTERVENOR: HUGH ABRAMS, ESQ. Sidley Austin LLP One South Dearborn	14 15 16 17	<pre>cases that had been done? A. I think that's, yeah, I agree on that. Q. So, is what is shown in Exhibit 112,</pre>
13 14 15 16 17 18	wohare@paulweiss.com FOR THE INTERVENOR: HUGH ABRAMS, ESQ. Sidley Austin LLP One South Dearborn Chicago, IL 60603	14 15 16 17 18	<pre>cases that had been done? A. I think that's, yeah, I agree on that. Q. So, is what is shown in Exhibit 112, is this an accurate summary of the cases that</pre>
13 14 15 16 17 18 19	wohare@paulweiss.com FOR THE INTERVENOR: HUGH ABRAMS, ESQ. Sidley Austin LLP One South Dearborn Chicago, IL 60603 habrams@sidley.com ALSO PRESENT: Keith Newburry, Vice President	14 15 16 17 18 19	<pre>cases that had been done? A. I think that's, yeah, I agree on that. Q. So, is what is shown in Exhibit 112, is this an accurate summary of the cases that you were involved in as a cardiac fellow at</pre>
13 14 15 16 17 18 19 20	wohare@paulweiss.com FOR THE INTERVENOR: HUGH ABRAMS, ESQ. Sidley Austin LLP One South Dearborn Chicago, IL 60603 habrams@sidley.com ALSO PRESENT: Keith Newburry, Vice President Intellectual Property	14 15 16 17 18 19 20	 cases that had been done? A. I think that's, yeah, I agree on that. Q. So, is what is shown in Exhibit 112, is this an accurate summary of the cases that you were involved in as a cardiac fellow at Brigham & Women's Hospital, at least some of
13 14 15 16 17 18 19 20 21	wohare@paulweiss.com FOR THE INTERVENOR: HUGH ABRAMS, ESQ. Sidley Austin LLP One South Dearborn Chicago, IL 60603 habrams@sidley.com ALSO PRESENT: Keith Newburry, Vice President	14 15 16 17 18 19 20 21	 cases that had been done? A. I think that's, yeah, I agree on that. Q. So, is what is shown in Exhibit 112, is this an accurate summary of the cases that you were involved in as a cardiac fellow at Brigham & Women's Hospital, at least some of the cases you were involved in?
12 13 14 15 16 17 18 19 20 21 22 23	wohare@paulweiss.com FOR THE INTERVENOR: HUGH ABRAMS, ESQ. Sidley Austin LLP One South Dearborn Chicago, IL 60603 habrams@sidley.com ALSO PRESENT: Keith Newburry, Vice President Intellectual Property	14 15 16 17 18 19 20 21 22 23	 cases that had been done? A. I think that's, yeah, I agree on that. Q. So, is what is shown in Exhibit 112, is this an accurate summary of the cases that you were involved in as a cardiac fellow at Brigham & Women's Hospital, at least some of the cases you were involved in? A. This is a list of some of the cases, at least some of the cases I was involved with
13 14 15 16 17 18 19 20 21 22	<pre>wohare@paulweiss.com FOR THE INTERVENOR: HUGH ABRAMS, ESQ. Sidley Austin LLP One South Dearborn Chicago, IL 60603 habrams@sidley.com ALSO PRESENT: Keith Newburry, Vice President Intellectual Property Edwards Lifesciences</pre>	14 15 16 17 18 19 20 21 22	 cases that had been done? A. I think that's, yeah, I agree on that. Q. So, is what is shown in Exhibit 112, is this an accurate summary of the cases that you were involved in as a cardiac fellow at Brigham & Women's Hospital, at least some of the cases you were involved in? A. This is a list of some of the cases,

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1	Page 241 CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER	1	Page 243 CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER
2	of the old valve.	2	A. Yes; you also have the risk of
3	Q. So, as you say in the second	3	embolic stroke.
4	paragraph, "As the old valve is left in place,	4	Q. But, as you're describing here in the
5	and the new valve simply implanted, after the	5	provisional, you're saying there's a specific
6	diseased valve has been compressed by a	6	potential problem with it when you do this
7	balloon or other mechanical device, there is	7	orthotopic replacement; correct?
8	first the risk of embolic stroke or embolic	8	A. Orthotopic is also what is performed
9	ischemia from valve or vascular wall debris	9	surgically. Orthotopic just means the valve
10	liberated into the blood flow and moved	10	is being put there where the old valve was or
11	downstream to smaller vessels creating vessel	11	still is; that means orthotopic, at the same
12	obstruction."	12	place.
13	And so, isn't that saying that	13	Q. I see. So, in the pig studies, did
14	there's a potential problem if you simply	14	you replace, did you put in the studies
15	replace the old valve with the new valve by	15	that are described in CHUV, done in CHUV
16	putting one, what did you say, orthotopically,	16	regarding the pigs, did you use the
17	with the other?	17	transapical approach to remove the old valve
18	A. Yeah, there could be a potential	18	and replace it with a new valve in the same
19	problem.	19	place?
20	Q. Right. Now, when you did the pig	20	- A. In the pig studies that are
21	studies in CHUV, did you ever remove the	21	described; no.
22	original valve and replace it with a new	22	Q. Now, with the, if you will look at
23	valve?	23	the patent itself, in the patent there's
24	A. Did I ever remove pig valves? Yes, I	24	described in the claims of the patent a means
25	did remove pig valves.	25	for preventing bleeding through the access
1	Page 242 CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER	1	Page 244 CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER
1	CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER	1	CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER
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2 3	CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER Q. Right. My question is with regard to the studies that you described when you talked	2 3	CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER device. Are you familiar with that language
2 3 4	CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER Q. Right. My question is with regard to the studies that you described when you talked about the transapical approach, and that type	2 3 4	CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER device. Are you familiar with that language in the patent claim?
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CHRISTOPH HUBER 30(B)(1) - 01/29/2016 Pages 245..248

Page 245 CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER	1	Page 24 CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER
mentions at column 10, line 10, it says,	2	of as many as possible ways of having a
"Valve 63 may be mechanically operable as an	3	hemostatic valve in place of the access
iris diaphragm, e.g., like the aperture of a	4	device. If I would have known more, I would
lens."	5	have included more. But that's what I was
Do you see that?	6	aware of from a non-medical field related
-	7	valve structures from engineering perspective,
	8	for example. So that's what is there.
		(Exhibit Defendant's 4, PREVIOUSLY
		MARKED, used in the deposition.)
		BY MR. ABRAMS:
-		Q. Earlier you were asked some questions
		about, let me see, your declaration Exhibit 4.
		Here is a copy. Here is Exhibit 4.
		A. Thank you.
		Q. I would ask you to turn to your
	17	declaration, if you would.
access device that goes into the heart,	18	Now, attached to the declaration
there's a means to prevent bleeding that's	19	Exhibit 4 is a declaration that you filed in
described here?	20	the patent office, correct, in 2009?
A. That's correct.	21	A. I'm not sure I filed that in the
Q. And it describes using some kind of	22	patent office.
valve. What I'm wondering is whether you used	23	Q. All right. Well, you signed it in
the specific valve described here as an, that	24	2009, and it eventually made its way to the
includes an iris diaphragm, whether that	25	patent office; correct?
Dago 246		Page 24
CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER	1	CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER
specific structure was used in the pig	2	A. I agree.
	3	Q. And you understood that that
		declaration, which is two pages here, you
		understand in the paragraph at the end, it
		says that it was being made under oath, and
		subject to the penalties of perjury?
-		A. What page are you on right now?
-	-	Q. At the very end, where your signature
		is before March 29th, 2009.
-		(Pause.)
· ·		A. "Willful false statement" Yes.
question.	13	Q. So, you understood the importance of
What do you do you recall when you	14	the declaration being accurate and true?
conceived of this particular structure of the	15	A. Yes.
valve, meaning, an iris diaphragm type	16	Q. And in the declaration, you make some
structure that's described here at column 10?	17	statements with regard to in paragraph 5, you
A. That iris diaphragm structure is	18	say, "I conceived the present invention prior
something that you could find in this kind of	19	to April 23rd."
devices.	20	A. Where are you?
		-
Q. So, you don't recall anything in	21	Q. Last two pages, paragraph 5 in the
	21 22	Q. Last two pages, paragraph 5 in the declaration of the PD
particular about it, you know, that when you		declaration of the PD
	22	
	 "Valve 63 may be mechanically operable as an iris diaphragm, e.g., like the aperture of a lens." Do you see that? A. Yes, I read there now. Q. Now, is that what's described there, the iris diaphragm, was that something that you used in the pig studies at CHUV? A. If I used a valve or a diaphragm as an isolated entity? Q. Well, when you did the pig studies, you had some sort of valve or some sort of way to prevent bleeding; correct? A. Bleeding through what? Q. It's my understanding that this access device that goes into the heart, there's a means to prevent bleeding that's described here? A. That's correct. Q. And it describes using some kind of valve. What I'm wondering is whether you used the specific valve described here as an, that includes an iris diaphragm, whether that Page 246 CONFIDENTIAL - PURSUANT TO PROTECTIVE ORDER specific structure was used in the pig studies? A. I don't know what the mechanism was in the pig study used device. It had a hemostatic, as we call, it valve. Q. You don't know what it was at that point? THE REPORTER: I'm sorry. "You don't know what it was at that point?" Q. Well, let me ask a different question. 	"Valve 63 may be mechanically operable as an iris diaphragm, e.g., like the aperture of a lens." Do you see that? A. Yes, I read there now. Q. Now, is that what's described there, the iris diaphragm, was that something that you used in the pig studies at CHUV? A. If I used a valve or a diaphragm as an isolated entity? Q. Well, when you did the pig studies, you had some sort of valve or some sort of way to prevent bleeding; correct? A. Eleeding through what? Q. It's my understanding that this access device that goes into the heart, there's a means to prevent bleeding that's described here? A. That's correct. Q. And it describes using some kind of valve. What I'm wondering is whether you used the specific valve described here as an, that includes an iris diaphragm, whether that Secorific structure was used in the pig studies? A. I don't know what the mechanism was in the pig study used device. It had a hemostatic, as we call, it valve. Q. You don't know what it was at that point?" Q. Well, let me ask a different question. What do you do you recall when you conceived of this particular structure of the valve, meaning, an iris diaphragm type structure that's described here at column 10? J. The reporter is a structure of the valve, meaning, an iris diaphragm type structure that's described here at column 10? J. The main of the pig structure of the valve, meaning, an iris diaphragm type structure that's described here at column 10?

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