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10	CALIFORNIA	
11	UNITED STATES DI	STRICT COURT
12	NORTHERN DISTRICT	T OF CALIFORNIA
13	SAN FRANCISC	O DIVISION
14	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, a corporation,	Case No. 3:16-cv-02477-VC
15	Plaintiff,	THE UNIVERSITY'S MOTION IN
16 17	v. CALIFORNIA BERRY CULTIVARS, LLC,	LIMINE NO. 6 RE: THE IMPACT OF THE COURT'S SUMMARY JUDGMENT RULING ON
	DOUGLAS SHAW, AND KIRK LARSON	EVIDENCE AND ARGUMENT RELATED TO CBC'S IMPLIED
18	Defendants.	COVENANT CLAIM AND THE UNIVERSITY'S BREACH OF
19	CALIFORNIA BERRY CULTIVARS, LLC	CONTRACT CLAIM
20	Cross-Complainant, v.	
21	THE REGENTS OF THE UNIVERSITY OF	
22 23	CALIFORNIA, a corporation,	
24	Crossclaim Defendants.	
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Case 3:16-cv-02477-VC Document 250 Filed 05/01/17 Page 2 of 42

1	Pursuant to the Court's Standing Order for Civil Trials, p.4, ll. 5-10, Plaintiff and				
2	Crossclaim Defendant The Regents of the University of California ("the University") submit this				
3	collated set of the moving papers and oppositi	ion to the University's Motion In Limine No. 6.			
4					
5	Dated: May 1, 2017	RACHEL KREVANS			
6		WESLEY E. OVERSON MATTHEW A. CHIVVIS			
7		JACOB P. EWERDT DAVID D. SCANNELL MORRISON & FOERSTER LLP			
8		MORRISON & FOERSTER LLP			
9		By: /s/ Matthew A. Chivvis			
10		By: /s/ Matthew A. Chivvis MATTHEW A. CHIVVIS			
11		Attorneys for Plaintiff and Cross- Defendant			
12		THE REGENTS OF THE UNIVERSITY OF CALIFORNIA			
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Case 3:16-cv-02477-VC Document 250 Filed 05/01/17 Page 3 of 42

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11	UNITED STATES DIS	
12	NORTHERN DISTRICT	
13	SAN FRANCISCO	
14	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, a corporation,	Case No. 3:16-cv-02477-VC
15	Plaintiff,	THE UNIVERSITY'S MOTION IN LIMINE NO. 6 RE: THE IMPACT
16	v.	OF THE COURT'S SUMMARY JUDGMENT RULING ON
17	CALIFORNIA BERRY CULTIVARS, LLC, DOUGLAS SHAW, AND KIRK LARSON,	EVIDENCE AND ARGUMENT RELATED TO CBC'S IMPLIED COVENANT CLAIM AND THE
18	Defendants.	UNIVERSITY'S BREACH OF CONTRACT CLAIM
19		
20	CALIFORNIA BERRY CULTIVARS, LLC,	
21	Cross-Complainant,	
22	V.	
23	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, a corporation,	
24	Crossclaim Defendant.	
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I. INTRODUCTION

Per the Court's order allowing an "additional motion in limine per side," if the April 27, 2017, Summary Judgment Order "generates questions or disagreement about what may be presented to the jury" on the University's breach of contract claim and CBC's breach of implied covenant of good faith and fair dealing claim, the University submits this Motion *in Limine*.

A. CBC's Breach of Implied Covenant Claim is Limited to the CSG Patent Application Issue.

Given the Court's April 27, 2017, Summary Judgment Order, the scope of CBC's remaining breach of implied covenant claim is very narrow. While CBC alleged five grounds for its implied covenant claim, the Court granted summary judgment on all of those grounds other than CBC's allegations that the University improperly filed a patent application on the Core Strawberry Germplasm ("CSG") to prompt assignments from Drs. Shaw and Larson. (ECF No. 240 at 3, 17-18.) The Court also granted summary judgment that the University owned the tangible property rights in the CSG and TCs currently in its possession," dismissed CBC's conversion claim for that material, and held that CBC has no rights in the CSG or TCs because it is not a bona fide purchaser for value. (*Id.* at 2, 5.) Further, the Court held that, while no one presently holds patent rights to the CSG and TCs, the University has "an equitable interest in the title to patents on Shaw and Larson's inventions." (Id. at 11.) The Court explicitly rejected CBC's argument that any rights the inventor may have to use the invention include the right to the "possession and use of the tangible plant itself." (*Id.* at 4.) Instead, the Court made clear that, regardless of whether there are any employee rights prior to assignment, the University's "employees may not convert to themselves the tangible property ownership of any plant in which they have identified and reproduced protectable, patentable characteristics." (*Id.* at 4.)

Despite the Court's summary judgment ruling, CBC nevertheless states in portion of the current draft Pretrial Order that it intends to pursue, for the first time, a breach of implied covenant claim for the University's purported destruction of "the sole embodiment of Drs Shaw and Larson's intellectual property rights [in] the [Transition Cultivars]." Evidence or argument relating to this purported claim is precluded by CBC's pleadings and the Court's Summary

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Judgment Order, and it is also irrelevant to any remaining claim or defense. As described above, CBC pled breach of implied covenant on specific grounds, none of which were based on any purported destruction of the Transition Cultivars ("TCs") or any intellectual property rights in same. (ECF No. 2-2 ¶ 61-71.) CBC therefore may not raise such an argument at this late stage of proceedings. Even if CBC argues that this destruction claim was somehow also implied in its claim, the University moved for summary judgment on CBC's implied covenant claim, and the Court granted the University summary judgment on "all [] respects" of this claim, apart from the patenting issue. (ECF Nos. 162 at 14-15; 240 at 3.) Accordingly, this purported "destruction" ground for breach of implied covenant is foreclosed.

Because the Court granted summary judgment for the University as to CBC's conversion claim and declared that the University owns all of the tangible property rights to the CSG and TCs in its possession (ECF No. 240 at 2, 5), any conversion theory CBC might have based on alleged destruction of the TCs is also foreclosed. Moreover, as noted above, the Court has found that Drs. Shaw and Larson themselves had no "inventors rights" to access the tangible plants in order to practice their invention, and thus could have transferred none to CBC even setting aside the fact that CBC was not a bona fide purchaser for value. (*Id.* at 4.) Accordingly, any evidence or argument regarding the University improperly "destroying" the TCs is thus irrelevant, and the only purpose for offering such evidence would be to confuse and prejudice the jury against the University. Such irrelevant, prejudicial evidence should be excluded. Fed. R. Evid. 403.

Because the Court granted summary judgment to the University on "all other respects" of CBC's implied covenant claim, the only evidence or argument that is relevant to CBC's remaining implied covenant claim is evidence that relates directly to the University's decision to seek a patent on the CSG and request an assignment of rights. (ECF No. 240 at 3.) This evidence includes a November 2013 disclosure by Drs. Shaw and Larson of the collection of 180 strawberry varieties that make up the CSG to the University as a possibly patentable "invention." (See, e.g., ECF Nos. 156-1; 155-7; 145-15; 160-3 at 100:10-101:1, 172:19-173:4.) It will also include evidence regarding the University's decision-making process with respect to its response to this disclosure, including the attempt by the breeders to have the University simply release all

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180 CSG varieties to the public as TRP, and the University's decision not to do that to preserve
its rights in the disclosed inventions by seeking patent protection and requesting the assignment.
The evidence on this claim will also include: the University's good faith efforts to obtain more
information about the CSG varieties from Dr. Shaw and his refusal to provide this information,
(see, e.g., ECF No. 160-3 at 193:6-194:22); evidence and argument regarding the University's
request for assignment of the disclosed CSG and Drs. Shaw and Larson's breach of their
contractual duty to do so (see, e.g., ECF Nos. 158-4, 158-5, 156-12, 155-3); and letters sent to
Drs. Shaw and Larson regarding the University's reasons for the patent application and other
evidence regarding the University's good faith submission of the application. (See, e.g.,
Declaration of Matthew Chivvis in Support of Motion in Limine No. 6 ("Chivvis Declaration")
Ex. 1 at CBC_DS_00026599.) Evidence and argument regarding the twelve strawberry varieties
that were broken out of the 180 disclosed CSG varieties and separately patented would also be
relevant, along with evidence of the royalties paid to Drs. Shaw and Larson related to them. (See
<i>e.g.</i> , ECF No. 158-2; Chivvis Decl. Ex. 2.)
In contrast, any evidence or argument that does not relate directly to the disclosure,
assignment, or patent application on the CSG should not be presented to the jury based on the
implied covenant claim. Examples of this irrelevant and prejudicial evidence include any

In contrast, any evidence or argument that does not relate directly to the disclosure, assignment, or patent application on the CSG should not be presented to the jury based on the implied covenant claim. Examples of this irrelevant and prejudicial evidence include any evidence or argument relating to the University's alleged poor maintenance of the CSG and TCs in its possession. (ECF No. 240 at 2, 5.) Similarly, any peripheral evidence of the University's alleged "unfairness" or "poor treatment" of Drs. Shaw and Larson should be excluded. The only purpose for such evidence or argument would be to bias and confuse the jury, by attempting to focus their attention on issues that have already been resolved by the Court in the University's favor and are unrelated to the claims and defenses remaining in this case. This type of confusing, misleading, and prejudicial evidence should be excluded. Fed. R. Evid. 403.

The evidence and arguments that CBC may present to the jury regarding its alleged damages are similarly circumscribed. After the Court's ruling, CBC may not present evidence or argument to the jury regarding any damages it has purportedly suffered based on its inability to use the CSG or TCs in its private breeding program. The only harms identified by CBC's

damages expert purportedly arose from CBC's lack of access to the physical CSG or TCs in the University's possession. (Chivvis Decl. Ex. 3; ECF No. 240 at 2, 5, 17.) However, as described above, the Court has determined that CBC had no tangible property rights to these plants, and has also determined that the University had no obligations to license the CSG and TCs. (ECF No. 240 at 4, 17.) As such, that expert testimony, and any similar testimony or argument, should be excluded as irrelevant to the claims at issue and prejudicial.

In theory, evidence about harm to CBC arising solely from the alleged bad-faith application for the CSG might remain relevant. However, CBC has not offered any expert opinion identifying any such harm (*see* Chivvis Decl. Ex. 3), and no facts support any such hypothetical testimony, in any event, because CBC could not have been monetarily damaged by the University's decision to patent the CSG. Drs. Shaw and Larson disclosed all 180 CSG varieties to the University as possibly patentable inventions. (ECF Nos. 145-15; 160-3 at 100:10-101:1, 172:19-173:4.) If the University had elected not to pursue a patent on the CSG, these varieties would have been merely "tangible property," and solely owned by the University under the Court's ruling. (ECF Nos. 155-6; 144-17.) By pursing a patent on the CSG, the University preserved the priority date of Drs. Shaw and Larson's inventions against third parties and ensured that Drs. Shaw and Larson will have the opportunity to receive royalties as the inventors of these varieties, if successfully patented. (ECF Nos. 156-1; 155-7; Chivvis Decl. Ex. 1 at CBC_DS_00026599.)

The University therefore respectfully requests that the Court limit the presentation of evidence and argument to the jury regarding the University's purported breach of the implied covenant of good faith and fair dealing to evidence and argument directly relating to the University's patent application and the request for assignment. Any other evidence or argument regarding CBC's implied covenant claims has been foreclosed by summary judgment, is irrelevant to the remaining claims at issue, and would be prejudicial.

B. Evidence Underlying the University's Breach of Contract Claim May Be Presented to the Jury Because it is Relevant to Other Claims.

The Court granted summary judgment to the University on its breach of contract claim,

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and held that (1) Drs. Shaw and Larson breached their employment contracts by failing to assign their rights to the CSG and (2) Dr. Shaw breached by failing to provide complete information regarding the CSG. (ECF No. 240 at 2.) CBC obviously may not present evidence or argument to the jury that would contradict the Court's summary judgment rulings.

Although the University is requesting specific performance for its breach of contract for failure to assign claim, the evidence underlying Drs. Shaw and Larson's failure to assign is relevant to other claims, which the University intends to try to the jury. For example, the University has maintained a claim for tortious interference with contract against the Defendants for CBC's intentional interference with the contractual relationship between the University and Drs. Shaw and Larson, based on acts intended to induce breach or disrupt of the University's contract with Drs. Shaw and Larson. (ECF No. 102-1 ¶ 114.) Evidence regarding Drs. Shaw and Larson's breach of their contractual duties to the University is relevant to this claim and should be presented to the jury.

Evidence and argument regarding Dr. Shaw's breach of his contractual duty to provide complete information regarding the CSG is also appropriate for presentation to the jury. The lack of that information impacted the patenting process, as noted above, and also forced the University to incur expenses and delay to try to recreate the information. These damages could have been avoided had Dr. Shaw not breached his contractual duties. The facts underlying this breach are also relevant to the University's other claims, such as conversion and breach of fiduciary duty. (ECF No. 102-1 ¶¶ 132, 137.) Accordingly, notwithstanding the Court's summary judgment rulings, this evidence remains relevant and admissible.

II. CONCLUSION

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The University respectfully requests that the Court grant this Motion *in Limine* and (1) limit evidence or argument regarding CBC's purported breach of the implied covenant of good faith and fair dealing to CBC's only remaining theory, based on the patenting of the CSG, and (2) continue to permit presentation of evidence and argument regarding the breaches of their employment agreements, because such evidence remains relevant to the University's damages and other claims that will be presented to the jury.

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14	DOUGLAS SHAW and KIRK LARSON							
15	UNITED STATES DISTRICT COURT							
	NORTHERN DISTRICT OF CALIFORNIA SAN FRANCISCO DIVISION							
16								
17	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA,	Case No. 3:16-cv-02477-VC						
18	Plaintiff,	OPPOSITION TO THE UNIVERSITY'S MOTION IN						
19	V.	LIMINE # 6: IMPACT OF THE COURT'S RULING ON SUMMARY						
20	CALIFORNIA BERRY CULTIVARS, LLC,	JUDGMENT						
21	DOUGLAS SHAW, AND KIRK LARSON,							
22	Defendants.							
23	CALIFORNIA BERRY CULTIVARS, LLC,	Date: May 8, 2017 Time: 10:00 am						
24	Cross-Complainant,	Courtroom: 4 Judge: Hon. Vince Chhabria						
25	V.	,						
26	THE REGENTS OF THE UNIVERSITY OF							
27	CALIFORNIA,							
28	Cross-Defendant.							
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CBC, Shaw, and Larson's Opp. to UC MIL # 6 Case No.: 3:16-CV-02477-VC

I. INTRODUCTION

In its summary judgment order, the Court invited the parties to file an additional motion in limine "to the extent this ruling generates questions or disagreement about what may be presented to the jury on" two claims: UC's claim for breach of contract and CBC's claim for breach of the implied covenant of good faith and fair dealing. ECF No. 240 at 19 n.7. UC takes the Court's invitation and runs with it, but its far-reaching arguments are either premature or misstate the Court's ruling. The motion should be denied, and the Court should address the proper scope of evidence as it comes in at trial.

II. ARGUMENT

A. UC'S MOTION TO CABIN CBC'S BREACH OF IMPLIED COVENANT CLAIM SHOULD BE DENIED.

1. UC argues, first, that CBC should be precluded from demonstrating that UC breached the implied covenant by destroying the Transition Cultivars, which represented the sole embodiment of the Doctors' intellectual property rights in the TCs, because that claim has never been pled.

To begin, CBC's Complaint is broad enough that, when fairly read, UC cannot be heard to complain. The Complaint alleges that UC has "endangered the Breeders' material" and "risked the loss *and destruction* of the varieties," that UC "is failing to maintain the Plant Material¹ in a healthy viable condition" thereby "threatening the very survival of the genetic code of the affected plants," and that—based on these allegations—CBC was asserting a claim for breach of the implied covenant due to UC's "interfere[ence] with the rights of the Breeders to receive the benefits of the Patent Agreements." ECF No. 2-2 ¶¶ 4, 47, 58, 60.

Moreover, if the Court finds that CBC's Complaint is impermissibly vague on this score, CBC should be permitted to amend its complaint to conform with the proof. *See* Fed. R. Civ. P. 15(b). Evidence that UC had unilaterally decided to destroy Transition Cultivars, without notifying the intellectual property owners or offering to make the material available to them, only

¹ Plant Material is defined to include *both* the Core Strawberry Germplasm and the Transition Cultivars. ECF No. 2-2 at ¶¶ 22-24.

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came out recently in discovery. Ex. D to the Decl. of Smith in Support of CBC, Shaw, and Larson's Opposition to UC's Motion to Exclude David Nolte at 242:1-19. Amendments to conform to proof are "freely permit[ted]." Fed. R. Civ. P. 15(b). UC should not be permitted to avoid liability for its destruction of over 400 Transition Cultivars without the knowledge or permission of the owners of the intellectual property contained in each of the unique plants destroyed. Certainly, the issue should not be resolved without this Court's assessment merely because UC failed to disclose such information until after the Complaint was filed.

2. The University next goes beyond the invitation extended by this Court, arguing that any conversion theory CBC might have based on the destruction of Transition Cultivars is also foreclosed by the Court's ruling. Yet CBC's claim is consistent with the Court's summary judgment order.

Although the Court held that UC owns the tangible property rights in the Transition Cultivars in its possession, *see* ECF No. 240 at 5, the Court has not similarly ruled with respect to CBC's intellectual property rights in the Transition Cultivars. Dr. Shaw possessed the Transition Cultivars until UC demanded he turn them over on their wrongful assertion that he possessed no intellectual property rights in the Transition Cultivars. The Court, however, has expressed its position that neither statutory law, common law, policies, nor contract have divested Drs. Shaw and Larson of their "the intellectual property" in the Transition Cultivars. Tr. of Hearing at 4:5-15 (Mar. 30, 2017); *see also* ECF No. 240 at 5-7. The UC's demand to for Dr. Shaw to turn over copies of the Transition Cultivars containing his intellectual property was wrong.

Because Drs. Shaw and Larson have intellectual property rights in the Transition Cultivars—rights assigned to CBC—they are entitled to prove to the jury that UC caused millions in dollars of damage by acting in bad faith and destroying the varieties necessary to practice their intellectual property rights. Just as an employer cannot destroy the schematics for a valuable semiconductor chip without violating the inventor's intellectual property rights, UC's unilateral decision to destroy the only remaining copies of valuable Transition Cultivars violates the Doctors' intellectual property rights. *See, e.g., WesternGeco v. Ion Geophysical Corp.*, No. CIV.A. 09-CV-1827, 2009 WL 3497123, at *3 (S.D. Tex. Oct. 28, 2009) ("courts have

recognized that intangible intellectual property can be reduced to tangible forms which are thereby subject to conversion"); *see also Calabrese Found., Inc. v. Inv. Advisors, Inc.*, 831 F. Supp. 1507, 1515 (D. Colo. 1993) ("tangible objects which are highly important to the exercise of an intangible right" are subject to conversion claim). Accordingly, evidence of UC's unilateral destruction of Transition Cultivars should be admitted as relevant to CBC's conversion claim.

- 3. UC also moves *in limine* for a broad order, before any evidence has come in, limiting CBC to particular pieces of information and excluding "any evidence or argument that does not relate directly to the disclosure, assignment, or patent application on the CSG." Contrary to UC's assertion, however, evidence of how UC "treat[ed]" Drs. Shaw and Larson is highly relevant to their implied covenant claim. CBC is permitted to contextualize its claim by explaining to the jury the parties' relationship and *why* UC was inclined to deprive the Doctors of their intellectual property rights and the consequences of doing so. Put otherwise, evidence of a "larger campaign" to undermine the Doctors' property interests in the strawberry varieties they invented is probative to UC's "motive' to breach" and "direct evidence of its alleged bad faith generally in violation of the implied covenant of good faith and fair dealing." *Onyx Pharm., Inc. v. Bayer Corp.*, 863 F. Supp. 2d 894, 898 (N.D. Cal. 2011)
- 4. Finally, UC makes the meritless argument that CBC may not present any evidence or argument regarding damages it has suffered based on its inability to use the full range of the CSG or TCs in which the Doctors had an intellectual property interest. Nowhere in CBC's expert report does the expert limit his analysis to damages flowing from CBC's lack of access "to the physical CSG or TCs in the University's possession," as UC maintains. Rather, the expert opines that if the Doctors had been permitted to exploit their intellectual property interests—interests the Doctors would have maintained if UC did not file an improper patent application on the CSG or destroy 400 of the TCs—CBC would have earned millions of dollars in revenue. UC is free to cross-examine CBC's expert on the impact of the Court's ruling on his opinion; but there is no merit to UC's suggestion that the expert's opinion is irrelevant.

Likewise, UC's argument—a belated summary judgment argument—that UC's breach caused no damage because Shaw and Larson will have the opportunity to receive royalties is a

question for the jury. CBC, obviously, believes that any prospect of royalties are limited (at best) when there is no evidence the CSG is patentable (which is so far proving to be the case, at least as UC is pursuing the application). And UC's suggestion that CBC could not develop the CSG even if it had not filed the patent application is plainly wrong; nothing in the Court's order calls into doubt the Doctors' rights to lawfully acquire and exploit unpatented varieties they invented, and to establish the damages flowing therefrom.

B. The Court Should Decide What Evidence Related to UC's Equitable Contract Claim is Admissible At Trial.

UC's breach of contract claim is not for the jury because its Third Amended Complaint is limited to a request for equitable relief. In its claim for breach of contract, UC alleged that "the University has suffered and will continue to suffer harm for which the only remedy is specific performance." ECF No. 104 ¶ 48. As the Ninth Circuit has recognized, an action to specifically enforce a contract "without a claim for damages is purely equitable and historically has always been tried to the court." *Adams v. Johns-Manville Corp.*, 876 F.2d 702, 709 (9th Cir. 1989). Accordingly, such a claim amounts to "an equitable proceeding not giving rise to a right to a jury trial." *Id.* at 710; *see also Atlas Roofing Co. v. Occupational Safety & Health Review Comm'n*, 430 U.S. 442, 459 (1977) ("specific performance was a remedy unavailable in a court of law and where such relief was sought the case would be tried in a court of equity with the facts as to making and breach to be ascertained by the court"); 9 Fed. Prac. & Proc. Civ. § 2309 (3d ed. 2017) ("An action for specific performance of a contract historically is equitable in nature.").

UC nonetheless argues that evidence regarding breach of contract may be relevant to other claims, such as its claim for tortious interference with contract. To be sure, evidence relevant to UC's equitable claims might also be relevant to its jury triable claims, and thus may be admitted provided there are no other evidentiary defects. It is premature at this point, however, for either party to seek an order conclusively deeming evidence relevant or irrelevant. As the trial evidence comes in, CBC will object where appropriate based on settled rules of evidence. But UC's request to deem certain evidence relevant before the trial has even started and evidence has begun to come in is premature and should be denied.

III. **CONCLUSION** For these reasons, the University's Motion in Limine # 6 should be denied. Respectfully submitted, Dated: May 1, 2017 Jones Day By: /s/ Tharan Gregory Lanier Tharan Gregory Lanier Counsel for Cross-Complainant and Defendant CALIFORNIA BERRY CULTIVARS, LLC and Defendants DOUGLAS SHAW and KIRK LARSON

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11	UNITED STATES DIS	STRICT COURT
12	NORTHERN DISTRICT	OF CALIFORNIA
13	SAN FRANCISCO	O DIVISION
14	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, a corporation,	Case No. 3:16-cv-02477-VC
15	Plaintiff,	DECLARATION OF MATTHEW CHIVVIS IN SUPPORT OF THE
16	v.	UNIVERSITY'S MOTION IN LIMINE NO. 6 RE: THE IMPACT
17	CALIFORNIA BERRY CULTIVARS, LLC, DOUGLAS SHAW, AND KIRK LARSON,	OF THE COURT'S SUMMARY JUDGMENT RULING ON EVIDENCE AND ARGUMENT
18	Defendants.	RELATED TO CBC'S IMPLIED COVENANT CLAIM AND THE
19		UNIVERSITY'S BREACH OF CONTRACT CLAIM
20	CALIFORNIA BERRY CULTIVARS, LLC,	
21	Cross-Complainant,	
22	v.	
23	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, a corporation,	
24	Crossclaim Defendant.	
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1	I, Matthew A. Chivvis, do hereby declare as follows:
2	1. I am a partner with the law firm of Morrison & Foerster LLP and an attorney of
3	record for Movant The Regents of the University of California (the "University") in the above-
4	captioned matter. I am admitted to practice law in the State of California and before this Court. I
5	submit this declaration in support of The Regents of the University of California's Motion in
6	Limine No. 6: Re: The Impact of the Court's Summary Judgment Ruling on Evidence and
7	Argument Related to CBC's Implied Covenant Claim and The University's Breach of Contract
8	Claim. I have personal knowledge of the facts stated in this declaration, and I could and would
9	competently testify to them if called as a witness.
10	2. Attached as Exhibit 1 is a true and correct copy of CBC_DS_00026598, a
11	November 3, 2014, letter from Michael Ward to Patrick Nielson.
12	3. Attached as Exhibit 2 is a true and correct copy of United States Plant Patent No.
13	27,830 entitled "Strawberry Plant Called 'Cabrillo'."
14	4. Attached as Exhibit 3 is a true and correct copy of excerpts from the
15	January 21, 2017, expert report of David Nolte.
16	
17	I declare under penalty of perjury that the foregoing is true and correct.
18	Executed on April 30, 2017, in San Francisco, CA.
19	
20	/s/ Matthew A. Chivvis
21	MATTHEW A. CHIVVIS
22	
23	
24	
25	
26	
27	
28	

EXHIBIT 1

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MORRISON

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PRIVILEGED AND CONFIDENTIAL -- SUBJECT TO ATTORNEY-CLIENT PRIVILEGE

November 3, 2014

Mr. Patrick Nielson 23263 Park Corniche Calabasas, CA 01302-2821

Re: Provisional Patent Applications Naming Dr. Douglas Shaw as Inventor

Our Reference: 51411-3

Dear Mr. Nielson:

We are counsel to The Regents of the University of California (the University). We have been asked to respond on behalf of the University to certain issues raised in an email sent by Dr. Douglas Shaw on September 19, 2014 to Michael Carriere of UC Davis Innovation Access. We understand that Dr. Shaw has some questions regarding provisional patent applications 61/997,548 and 61/999,632 which we filed on behalf of the University naming Dr. Shaw as an inventor.

We would normally correspond directly with Dr. Shaw as an inventor of the patent applications. Such correspondence would be privileged and confidential.

However, we understand that you represent Dr. Shaw in matters related to the patent applications. We therefore cannot directly correspond with Dr. Shaw but instead direct our letter to Dr. Shaw to your attention. This letter is privileged and confidential.

As a preliminary matter we note that that the provisional patent applications 61/997,548 and 61/999,632 are the subject of litigation between the University and the California Strawberry Commission. As such, we cannot disclose the litigation strategy, if any, related to those filings. Subject to that, we have general comments as set forth below.

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Mr. Patrick Nielson November 3, 2014 Page Two

PRIVILEGED AND CONFIDENTIAL -- SUBJECT TO ATTORNEY-CLIENT PRIVILEGE

While the University typically makes a non-provisional patent application filing as the initial step in seeking plant patent protection, it is accepted procedure to initially make a provisional patent application filing and then to subsequently (e.g., at the one-year anniversary of the provisional filing) make a non-provisional plant patent filing based on the provisional filing. Under these circumstances, the provisional patent applications serve as priority patent applications to any subsequently filed non-provisional plant patent applications filed within one year of the provisional patent applications. Any such subsequently filed non-provisional plant patent applications that claim priority to these provisional patent applications will have as their effective filing dates the filing dates of the provisional filings.

It is also accepted procedure to disclose and claim multiple varieties in a non-provisional plant patent filing (or in one or more prior provisional filings to which the non-provisional plant patent application filing claims priority), with the understanding that the individual varieties can be subsequently pursued on a variety-by-variety basis in separate non-provisional plant patent filings. In this instance, the provisional filings 61/997,548 and 61/999,632 do not interfere or conflict with the planned subsequent non-provisional plant patent filing for CN 236 (8.181-1), or with non-provisional plant patent filings for any future-released varieties disclosed in the provisional patent applications. The provisional patent applications serve as priority applications for a non-provisional plant patent filing for CN 236 (8.181-1) and thereby provide an earlier filing date for the non-provisional plant patent filing for CN 236 (8.181-1).

Regarding assignments, it is the University's typical practice to obtain an assignment for both provisional filings and non-provisional filings, with the assignments reflecting the applicable respective serial numbers for each.

Regarding information to supplement the provisional patent filings, in accordance with plant patent application practice, additional information can be added to the non-provisional plant patent applications at a subsequent stage (to the extent such information becomes available), if the Patent and Trademark Office so requests or if the decision is otherwise made to do so.

Finally, Dr. Shaw refers several times to his request for filing a utility model patent application. There is no such thing as a utility model patent application in the United States: http://www.wipo.int/sme/en/ip business/utility models/utility models.htm

We presume that Dr. Shaw is referring to a utility patent application and not a utility model patent application. With that understanding, we provide the following on the choice between plant patents and utility patents for protecting strawberry varieties in the U.S. In the U.S., strawberry varieties can, in theory, be protected by plant patents or utility patents, but in practice are protected by plant patents. The University has consistently used plant patents

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Mr. Patrick Nielson November 3, 2014 Page Three

PRIVILEGED AND CONFIDENTIAL -- SUBJECT TO ATTORNEY-CLIENT PRIVILEGE

rather than utility patents to protect strawberry varieties. We are not aware of any utility patents that have issued to anyone for strawberry varieties.

One reason that strawberry varieties are protected by plant patents rather than utility patents is that plant patents do not require a deposit of plant material. By contrast, in order to obtain a utility patent for a strawberry variety, an enabling patent deposit is necessary. There are a limited number of depositories worldwide that accept plant material deposits in support of patent filings. For strawberry, the deposit would need to be a tissue culture deposit. It is not clear whether a tissue culture deposit of strawberry could be maintained in a way sufficient to satisfy the enablement requirement of a utility patent.

We hope that this provides Dr. Shaw with the explanations that he is requesting.

Sincerely,

/Michael R. Ward/

Michael R. Ward

MRW:kds

EXHIBIT 2

(12) United States Plant Patent Shaw et al.

(10) Patent No.: (45) Date of Patent:

US PP27.830 P3

Apr. 4, 2017

(54) STRAWBERRY PLANT NAMED 'CABRILLO'

Latin Name: Fragaria×ananassa Duch. Varietal Denomination: Cabrillo

(71) Applicant: The Regents of the University of California, Oakland, CA (US)

(72)Inventors: **Douglas V. Shaw**, Davis, CA (US); Kirk D. Larson, Santa Ana, CA (US)

(73)Assignee: The Regents of the University of California, Oakland, CA (US)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 126 days.

(21) Appl. No.: 14/544,658

(22)Filed: Jan. 30, 2015

(65)**Prior Publication Data**

> US 2016/0227687 P1 Aug. 4, 2016

(51) Int. Cl. A01H 5/08 (2006.01)

U.S. Cl.

Field of Classification Search

See application file for complete search history.

Primary Examiner — Keith Robinson (74) Attorney, Agent, or Firm — Kilpatrick Townsend & Stockton LLP

(57) **ABSTRACT**

'Cabrillo' is a day-neutral strawberry cultivar that is moderate to strong in expressing the day-neutral character. 'Cabrillo' will be of special interest for winter plantings and in summer plantings where 'San Andreas', 'Portola', and 'Albion' have been successful.

3 Drawing Sheets

2

1

Genus and species: The strawberry cultivar of this invention is botanically identified as Fragaria×ananassa Duch.

Variety denomination: The variety denomination is 'Cabrillo'.

BACKGROUND OF THE INVENTION

This invention relates to a new and distinctive day-neutral type cultivar designated as 'Cabrillo', which resulted from a cross performed in 2008 between two unreleased germplasm $^{-10}$ accessions Cal 3.149-8 (unpatented) and Cal 5.206-5 (un-

'Cabrillo' was first fruited at the University of California Wolfskill Experimental Orchard, near Winters, Calif. in 2009, where it was selected, originally designated Cal 15 8.181-1, and propagated asexually by runners. Following selection and during testing the plant of this selection was designated 'CN236'. With the decision that this plant was to be released, this plant was given the name 'Cabrillo' for purposes of introduction into commerce and for interna- 20 tional registration and recognition. Asexual propagules from this original source have been tested at the Watsonville Strawberry Research Facility, the South Coast Research and Extension Center, and to a limited extent in grower fields starting in 2010.

BRIEF SUMMARY OF THE INVENTION

'Cabrillo' is a day-neutral (ever-bearing) strawberry cultivar similar to 'Albion' (U.S. Plant Pat. No. 16,228), but 30 with higher yield. It is also similar to 'San Andreas' (U.S. Plant Pat. No. 19,975), but with higher yield, better flavor, and larger fruit. 'Cabrillo' is moderate to strong in expressing the day-neutral character and 'Cabrillo' will be of special interest for winter plantings and in summer plantings where 35 'San Andreas', 'Portola' (U.S. Plant Pat. No. 20,552), and 'Albion' have been successful. Fruiting plants of 'Cabrillo'

are similar in morphology to 'Albion' or 'San Andreas', although slightly larger and more erect. The fruit shape for 'Cabrillo' is typically a short and either symmetrical or slightly flattened conic. It is easily distinguished by fruit shape from 'Albion' (long conic), 'San Andreas' (long conic with a slight neck) or 'Portola' (short and rounded conic). Subjectively, 'Cabrillo' has outstanding flavor. The fruit will be exceptional for both fresh market and processing, and will be useful for home garden purposes.

BRIEF DESCRIPTION OF THE DRAWINGS

The Figures depict various characteristics of the 'Cabrillo' cultivar. Plants were planted in November.

FIG. 1 shows the general flowering and fruiting characteristics of the plant in a field planting.

FIG. 2 shows a typical leaf at mid-season.

FIG. 3 shows representative mid-season fruit.

DETAILED DESCRIPTION OF THE INVENTION

'Cabrillo' is typical of day-neutral strawberry cultivars and produces fruit regardless of day length when treated 25 appropriately in arid, subtropical climates. 'Cabrillo' is moderate to strong in expressing the day-neutral character, being stronger in flowering response than 'San Andreas' and 'Albion', and less so than 'Portola' or 'Irvine' (U.S. Plant Pat. No. 7,172). The fruit of 'Cabrillo' is firmer and larger than that of unreleased parent Cal. 3.149-8; and larger and darker in color than the fruit of unreleased parent variety Cal. 5.206-5. 'Cabrillo' will be of special interest for winter plantings and in summer plantings where 'San Andreas', 'Portola', and 'Albion' have been successful. Plants and Foliage:

Fruiting plants of 'Cabrillo' are similar in morphology to 'Albion' or 'San Andreas' although slightly larger and much

US PP27,830 P3

3

more erect. The growth habit of the plant is upright. The inflorescence is at the same level in relation to foliage. Blistering of the leaf is absent or weak. Glossiness of the leaf is strong. The terminal leaflet is obtuse in shape. Comparative statistics for foliar characters near mid-season (November plantings) are given for 'Cabrillo' and the three comparison cultivars in Table 1. Individual leaflets for 'Cabrillo' are slightly smaller than for the comparison cultivars, and are much more concave. Leaves (including petioles) for 'Cabrillo' are slightly shorter than those for the comparison cultivars, mostly due to leaflet size. Petioles are generally thinner than those of the comparison cultivars. The adaxial (upper) and abaxial (lower) surfaces of leaves for 'Cabrillo' are similar in color to the comparison cultivars at midseason.

TABLE 1

Foliar and plant characteristics for 'Cabrillo', 'Albion', 'San Andreas', and 'Portola'.					
	Cultivar				
Characteristic	'Albion	'San Andreas'	'Portola'	'Cabrillo'	
Plant height (mm)	_				
mean range Plant spread (mm)	285 270-300	302 280-320	300 290-320	313 290-340	
mean range Mid-tier leaflet Length (mm)	390 335430	444 370-535	433 410-445	452 390-505	
mean range Width	88 80-100	88 80-100	98 90-100	85 70-100	
mean range Mid-tier leaf Length (mm)	84 75-95	82 70-90	89 80-100	79 70-80	
mean range Width (mm)	132 110-150	135 130-150	134 150-180	126 120-140	
mean range Leaf components Petiole length (mm)	164 150-180	154 130-160	170 150-180	160 140-180	
mean range Petiole diameter (mm)	205 180-220	220 200-260	223 190-260	218 200-240	
mean range Petiolule length (mm)	5.2 4-6	4.7 4-6	4.9 4-6	3.9 3-5	
mean range # leaflets/leaf Leaf convexity	6.1 3 some flat, most slight concave	6.0 5-9 3 some flat, most slight concave	10.7 10-12 3 some flat, most slight concave	11.4 8-14 3 mostly concave	
number/leaf range	24.2 22-26	21.8 19-24	24.6 21-28	20.5 18-24	

4

TABLE 1-continued

	Folia	r and p	olant c	haracterist	ics f	or
Cabril.	lo', ' <i>A</i>	Albion'	, 'San	Andreas',	and	'Portola'.

5		Cultivar			
	Characteristic	'Albion	'San Andreas'	'Portola'	'Cabrillo'
10	shape	semi- pointed	semi- pointed	semi- pointed	semi- pointed
	Leaf pubescence	moderate- heavy	moderate	moderate	light- moderate
	Petiole pubescence density	heavy	heavy	moderate	heavy
15	direction	perpen- dicular	perpen- dicular	perpen- dicular	perpen- dicular
13	Petiole color (Munsell) Stipule length (mm)		5 GY 8/8	7.5 GY 8/7	5 GY 8/8
20	mean range Stipule color (Munsell)	33.0 30-35	32.0 25-35	29.4 24-37	30.0 24-40
	core margins	7 G 9/4 7 GY 8/7	2.5 GY 8/9 5 GY 8/7	2.5 GY 8/9 5 GY 8/8	5 GY 7/10 5 GY 8/8
25	Stolon base diameter (mm)	2.7	1.8	1.4	1.5
	Stolons per nursery mother plant Venation	15.8	21.5	20.3	22.0
30	pattern color (Munsell)	pinnate 5 GY 6/8	pinnate 2.5 GY 6/8	pinnate 2.5 GY 6/8	pinnate 10 GY 8/7

Disease and Pest Reaction:

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'Cabrillo' is moderately resistant to powdery mildew

Sphaerotheca macularis), and moderately susceptible to Anthracnose crown rot (Colletotrichum acutatum). It is moderately resistant to Verticillium wilt (Verticillium dahliae), Phytophthora crown rot (Phytophthora cactorum) and common leaf spot (Ramularia tulasnei) (Table 2). When treated properly, it has tolerance to two-spotted spider mites (Tetranychus urticae) equal to that for the comparison cultivars. 'Cabrillo' is tolerant to strawberry viruses encountered in California.

TABLE 2

Disease resistance scores for 'Cabrillo' and three comparison cultivars; scores were obtained in evaluations conducted in 2012-2014.

Genotype	Phytophthora Resistance Score (5 = best)	Verticillium Resistance Score (5 = best)	Colletotrichum Resistance Score (5 = best)
'Albion'	4.6	4.0	2.9
'San Andreas'	4.3	4.4	2.9
'Portola'	4.4	3.2	7.4
'Cabrillo'	4.2	3.4	1.8

Flowering, Fruiting, Fruit, and Production Characteristics:

'Cabrillo' is similar to other California day-neutral cultiours (e. g. 'San Andreas' and 'Albion') in that it will flower independently of day length, given appropriate temperature and horticultural conditions. The petals as arranged in the flower are touching. The achenes are level with the surface. The fruit is firm. Flowering occurs early. Comparative statistics for flower and fruit characters near mid-season (November plantings) are given for 'Cabrillo' and the three

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Munsell

5

comparison cultivars in Table 4. The primary flowers for 'Cabrillo' are similar in size to the comparison cultivars with a calyx that is distinctly larger relative to the corolla on primary fruit. The calyx for 'Cabrillo' varies in position but 5 is usually more indented than for 'Albion' or 'San Andreas', similar to 'Portola'. The fruit shape for 'Cabrillo' can vary, but is typically a short and either symmetrical or slightly flattened conic. It is easily distinguished by fruit shape from 'Albion' (long conic), 'San Andreas' (long conic with a slight neck) or 'Portola' (short and rounded conic). 'Cabrillo' usually has a greater proportion of symmetrical fruit than the comparison cultivars. External fruit color for 'Cabrillo' is lighter and has greater shine than that of 'Albion' or 'San Andreas' and is distinctly darker than that of 'Portola'. Internal color is somewhat lighter with less red 20 pigment than for 'Albion' (Table 3). Achenes vary from yellow to dark red, but are frequently more yellow than the comparison cultivars, and are usually slightly indented.

three comparison cultivars.

0.10

TABLE 3

Foliar and fruit color characteristics for 'Cabrillo' and

	Cultivar				
Color Character	'Albion'	'San Andreas'	'Portola'	'Cabrillo'	
Leaf color (CIELAB) Adaxial L*					35
mean range a*	36.3 32.2-40.8	36.9 34.1-39.2	37.7 36.2-38.7	36.2 35.0-38.7	
mean range b*	-9.8 -6.712.8	-9.7 -8.510.9	-9.4 -6.910.8	-9.8 -6.712.5	40
mean range Munsell Abaxial L*	13.7 12.1-18.1 5 GY 4/3	13.1 12.8-15.5 5 GY 4/3	13.2 10.8-14.3 5 GY 3/2	12.9 10.1-15.8 5 GY 4/3	45
mean range a*	50.2 48.7-60.0	49.4 37.8-51.3	48.7 45.8-50.0	51.1 49.2-53.1	50
mean range b*	-13.1 -11.514.0	-12.6 -9.913.8	-12.2 -11.212.7	-13.1 -12.514.0	
mean range Munsell Fruit color (CIELAB) External L*	20.1 16.8-22.9 10 GY 7/8	20.6 13.2-21.6 10 GY 7/8	18.7 18.1-19.1 7.5 GY 5/7	20.4 19.5-21.0 5 GY 5/5	55
mean range a*	37.6 34.6-41.5	40.3 37.7-44.9	40.1 37.2-42.5	39.2 35.4-41.6	60

33.2-37.8

mean

range

29.9-38.4

35.1

33.9-36.9

32.0

30.8-32.8

6

TABLE 3-continued

Foliar and fruit color characteristics for 'Cabrillo' and

		three c	omparison cultiva	rs.			
5		Cultivar					
	Color Character	'Albion'	'San Andreas'	'Portola'	'Cabrillo'		
10	b*						
	mean	19.3	23.2	22.5	70.5		
	range	12.9-20.9	18.6-30.0	15.2-27.2	18.5-23.2		
	Munsell	5 R 3/7	5 R 4/12	2.5 R 4/10	7.5 R 4/11		
	Internal						
15	L*						
	mean	49.4	56.2	52.8	54.4		
	range	37.2-54.4	54.2-59.1	48.6-57.6	50.0-56.0		
	a*						
20							
	mean	19.2	18.5	18.4	14.9		
	range	16.7-23.1	12.8-20.8	13.5-21.8	9.8-20.5		
	b*						
25	mean	23.1	25.2	27.6	22.1		
	range	20.0-27.9	22.0-28.1	23.4-30.3	18.2-29.4		
	Munsell	5 R 4/12	7.5 R 4/11	5 R 5/13	5 R 5/13		
	Achene color	2.5 R 8/12	10 Y 7/9	7.5 Y 7/9	10 Y 8/11		

TABLE 4

Flower and fruit cha	racters for 'Ca	brillo' and three	e comparison	cultivars.
Cultivar				
Character	'Albion'	'San Andreas	'Portola'	'Cabrillo
Petal number				
mean range Petal shape	5.5 5-7	6.4 6-7	6.0 5-7	5.3 5-7
apex	truncate to slightly obtuse	truncate to slightly obtuse	truncate to slightly obtuse	truncate to slightly obtuse
base margin Petal length (mm)	attenuate entire	attenuate entire	attenuate entire	attenuate entire
mean range Petal width (mm)	9.4 8-10	9.1 7-11	10.3 9-12	10/7 9-13
mean range Flower position (relative to foliage)	8.9 8-10 most even some exposed	9.1 8-11 most even some internal and exposed	11.2 10-12 most exposed, some even	12.2 10-13 most exposed
Calyx diam.(mm) mean range Corolla diam. (mm)	31.3 25-35	32.7 27-38	29.1 27-32	35.2 32-38
mean range	26.0 25-30	30.8 28-34	24.2 22-26	26.3 24-28

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TABLE 4-continued

Flower and fruit characters for 'Cabrillo' and three comparison cultivars.

TABLE 4-continued

8

Flower and	fmit	characters	for	'Cabrillo'	and	three	comparison	cultivars

		Cultiv	ar	
Character	'Albion'	'San Andreas	'Portola'	'Cabrillo
Sepal length (mm)	_			
mean range Sepal width (mm)	15.0 8-20	10.1 7-12	10.4 9-12	10.9 9-15
mean range Sepal color (Munsell) Pedicel length (mm)	6.5 5-8 5 GY 5/6	6.4 5-10 5 GY 5/6	6.9 6-8 5 GY 5/6	6.7 5-8 5 GY 5/6
mean range Pedicel diameter (mm)	261 240-280	301 260-350	266 220-300	243 230-270
mean range Pedicel color	4.5 4-5 2.5 GY 6/8	4.9 4-7 2.5 GY 9/8	3.9 3-5 5 GY 6/8	5.0 4-6 2.5 GY 9/8
Fruit shape Fruit length (mm)	_			
mean range Fruit width (mm)	54.1 47-57	52.1 44-58	46.7 43-55	53.0 48-61
mean range Length/width	45.7 42-48	44.2 42-55	47.4 42-52	47.7 43-57
ratio range subjective	1.2 1.0-1.4 medium to long conic	1.2 1.0-1.3 medium to long conic	1.0 0.8-1.1 most short conic	1.1 1.1-1.3 medium conic
Primary/secondary fruit comparison	-			
size (subjective) shape	70-80% shorter conic	60-70% shorter conic	60-70% similar shape	70-80% similar shape
Extent/size of hollow core Calyx position size relative to fruit	small- medium even to indented equal or greater than	small- medium even-slight neck equal or greater than	even- indented equal or greater than	-

fruit

diameter

diameter

fruit

diameter

than fruit

diameter

			Cultiv	ar	
	Character	'Albion'	'San Andreas	'Portola'	'Cabrillo'
	Seed position	even- indented	even	even	even- indented
)	Adherence of Calyx to Fruit	weak	weak	weak	inter- mediate

Flower measurements and fruit measurements obtained May 1-Jun. 1, 2013, subjective observations obtained May 28, 2014.

'Cabrillo' has been tested under a variety of cultural regimes, and optimal performance is obtained when nursery treatments and nutritional programs similar to those for 'Albion', 'San Andreas', and 'Portola' are used. In general, 'Cabrillo' is more vigorous than the comparison cultivars and is more flexible to planting and chilling treatments. 'Cabrillo' retains excellent fruit quality in summer planting systems.

When treated with appropriate planting regimes, 'Cabrillo' has larger fruit and produces greater individual-plant yield than any of the comparison cultivars (Table 5). 'Cabrillo' has a similar production pattern to 'Albion' with most cultural treatments, although it is substantially more adapted to later-season winter planting and spring planting. Commercial appearance ratings have been similar to or better than those for all of the comparison cultivars, especially 'Portola'; these superior appearance scores translate directly into a larger fraction of marketable fruit than is produced by the comparison cultivars. Fruit for 'Cabrillo' is substantially firmer than fruit from the comparison cultivars. Subjectively, 'Cabrillo' has outstanding flavor. The fruit will be exceptional for both fresh market and processing, and will be useful for home garden purposes.

TABLE 5

Performance of 'Cabrillo' and three comparison cultivars evaluated at the Watsonville Research Facility in 2012-13. All plants for these trials were harvested from a commercial nursery near Macdoel, CA on October 15-16, and transplanted after 18-21 days supplemental storage. Fruit harvest was initiated in early April and continued through the first week of October. (52" 2-row beds, 17,300 plants/acre).

Cultivar	Yield (g/plant)	Appearance Score (5 = best)	Fruit Size (g/fruit)	Firmness
'Albion'	2,632	4.1	32.6	12.2
'San Andreas'	3,090	4.3	32.0	12.2
'Portola'	2,900	3.4	31.7	11.4
'Cabrillo'	3,669	4.3	32.0	12.2

What is claimed is:

1. A new and distinct cultivar of strawberry plant having the characteristics substantially as described and illustrated herein.

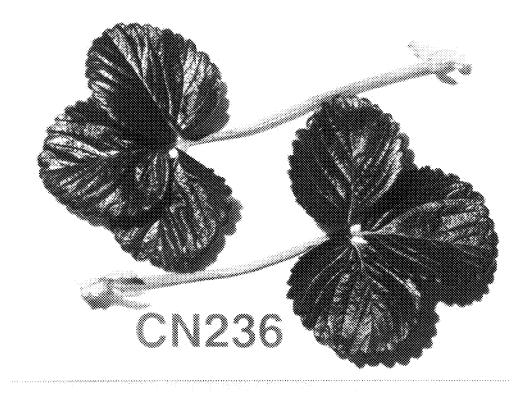
* * * *

U.S. Patent Apr. 4, 2017 Sheet 1 of 3 US PP27,830 P3



FIG. 1

U.S. Patent Apr. 4, 2017 Sheet 2 of 3 US PP27,830 P3



- 5 - 6 - 7 - 8 - 9 - **1.0** - 29 - 120 - 121 - 141 - 150 - 260 - 27 - 128 - 129 - 270 - 281 - 28

U.S. Patent Apr. 4, 2017 Sheet 3 of 3

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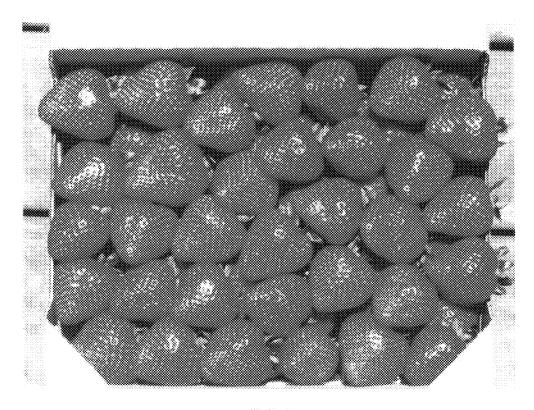


FIG. 3

EXHIBIT 3

Case 3:16-cv-02477-VC Document 250 Filed 05/01/17 Page 31 of 42



Fulcrum Financial Inquiry LLP 888 S. Figueroa Street, Suite 2000 Los Angeles, CA 90017

(213) 787-4100 www.fulcrum.com

January 21, 2017

Frederick McKnight, Esq. Jones Day 555 S. Flower Street, 50th Floor Los Angeles, CA 90071

Dear Mr. McKnight:

This report is provided in connection with California Berry Cultivars, LLC ("CBC") vs. The Regents of the University of California ("UC") (USDC Case No. 3:16-cv-02477) to the extent possible at this time.

I. DESCRIPTION OF ENGAGEMENT

Fulcrum Financial Inquiry LLP ("Fulcrum") was asked to calculate CBC's lost profit damages arising from UC's failure to provide CBC nonexclusive access to the Materials (defined subsequently) as of December 1, 2014, which would have allowed CBC personnel to continue development, patenting, and licensing efforts.

In addition to these damages, Fulcrum understands that Drs. Shaw and Larson are entitled to royalties on UC-patented cultivars for which Drs. Shaw and/or Larson are the inventors. Any such amounts owed are not calculated as part of this report or Fulcrum's assignment.

Fulcrum assumes that CBC is able to prevail on its liability claims, for which Fulcrum expresses no opinion.

II. FACTUAL & LEGAL BACKGROUND

This section provides background that provides context to this report. Although Fulcrum is capable of summarizing information contained in this section (and may need to do so as part of providing background to any testimony), Fulcrum is not expressing an opinion of any facts contained in this section.

A. Employment and Strawberry Breeding Program Background

Based on complaints filed by both CBC and UC, the employment history and description of the UC Davis strawberry breeding program ("SBP") appear to be substantially the same for purposes relevant to Fulcrum's calculations. Specifically:

- 1. Douglas Shaw Ph.D. was a Professor of Plant Sciences at UC's Davis campus, with a special focus in genetics starting in 1986. Dr. Shaw was employed at the UC Davis strawberry breeding program ("SBP") starting in 1988.
- 2. Kirk Larson Ph.D. was employed at the UC Davis SBP starting in 1991.
- 3. Drs. Shaw and Larson retired from the UC's employ in November 2014.

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The summary of a UC Internal Audit report on the UC SBP starts with the following background:1

"California is the nation's leading producer of strawberries. In 2013, over 2.3 billion pounds of strawberries were harvested in California, comprising approximately 88% of the fresh and frozen strawberries in the United States. According to the California Department of Food and agriculture (CDFA), strawberries are one of California's top 20 crop and livestock commodities. University of California (UC) produced varieties make up an estimated 80% of California's strawberry production.

UC Davis' SBP began in the 1930s and has continued to the present day. The SBP has been responsible for the release of a number of notable strawberry varieties, with over 30 patented varieties developed in the last six decades. ...

Until their retirement in November 2014, there were two strawberry breeders (breeders) dedicated to the SBP. Both were faculty members in the UC Davis Department of Plant Sciences (Plant Sciences) within the College of agricultural and Environmental Sciences (CA&ES). The breeders were responsible for developing the strawberry varieties that are the foundation of the SBP ...

Strawberry royalties have been trending upward over the past five years. During fiscal year (FY) 2012 – 2013, UC collected over \$7.5 million in gross strawberry licensing fees and royalties from UC Davis varieties. ...

The SBP is currently at a crossroads with the retirement of the breeders who have been the driving force behind the SBP over the last few decades. ..."

B. CBC's Contentions

For purposes only of understanding the calculations Fulcrum described herein, Fulcrum understands that CBC contends:

- 1. Upon their retirement, Drs. Shaw and Larson (i) had a nonexclusive right (license) to use the results of their research, plant materials and related information (collectively, the "Materials"), and (ii) assigned their rights to the Materials to CBC.
- 2. The Materials include (i) approximately 168 cultivars developed by Drs. Shaw and Larson which are subject to a pending United States plant patent application, and (ii) approximately 250 plant varieties developed by Dr. Shaw and Larson that may have value as cultivars and breeding stock. The Materials are a subset of the full collection of strawberry plant materials and information within the UC strawberry breeding program, and do not include any plants for which the UC had obtained a patent.
- 3. UC violated their obligation to Drs. Shaw and Larson by withholding the Materials from CBC, and not safeguarding the living plants that will allow the Materials to now be provided to CBC in a reasonably usable form.

¹ December 2014 UC Internal audit report regarding the UC strawberry breeding program, project #14-75 (UC STRAW2 00077123 – 184), pages 2 - 3 [citations omitted]

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C. CBC's Expectations of what CBC Could Accomplish

Fulcrum discussed with Dr. Douglas Shaw and Mr. Lucky Westwood what CBC would be capable of accomplishing (i) absent UC's withholding of the Materials and (ii) in the actual conditions that CBC now faces. Their comments included:

- Drs. Shaw and Larson retired from UC in November 2014. At that time, the transition cultivars comprised of more than 800 varieties, which were viable and in good health, approximately 250 of which, in CBC's judgment, warranted further evaluation and development as cultivars and to serve as breeding stock for annual crosses beginning 2015. These counts excluded all plants for which UC has patents or patents pending.
- 2. The following nine cultivars were developed by Drs. Shaw and Larson and have at least five years of licensing history:²
 - a. Camino Real
 - b. Ventana
 - c. Albion
 - d. Palomar
 - e. Monterey
 - f. San Andreas
 - a. Portola
 - h. Benica
 - i. Mojave

Earlier cultivars included the efforts of other developers. The nine cultivars listed above are a good cross-select of the type of work that would be expected from CBC's efforts. They include cultivars that were both commercially successful and not commercially successful, as well as a representative mix of short-day and day-neutral cultivars.

- 3. Absent UC's wrongful conduct, CBC would have been able to patent the first cultivar in 2018 and commercialize this cultivar in 2019.
- 4. The cultivar development cycle typically lasts eight years. Since CBC had to start from scratch, the actual damages reflect the loss of eight missing cultivars that would have been developed earlier.
- 5. CBC could be expected to generate at least one new patented cultivar per year, on average.
- 6. Improvements in the licensing practices used by UC that will be implemented by CBC include:
 - a. Use of market royalty rates, which are higher than what UC has used; and
 - b. More rapid licensing to growers outside of California by eliminating the two-year preferred period that has existed for California growers;³

² This list is consistent with UC STRAW2 00075847

³ Paragraph 7 of UC's November 21, 2016 Third Amended Cross-Complaint

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- c. Greater use of compliance audits to encourage/enforce complete and accurate reporting by growers;⁴ and
- d. Not engaging in practices found by the California State Auditor to have resulted in the SBP not receiving all royalties to which it otherwise would be entitled. ⁵

An increase in California royalty rates from \$8 per thousand plants to \$10 per thousand plants would, by itself, increase royalties by 25 percent, with additional royalty increases occurring for the other reasons identified.

7. U.S. patents for plant materials have a twenty year life. Foreign licensing is an important part of the royalties, with such foreign licensing often lasting more than the period for U.S. patent protection.

III. INFORMATION RELIED UPON

In addition to my experience and training, Fulcrum relied upon the following information in preparing this report, each of which is of a type that is reasonably relied upon by experts in my field:

- 1. Background materials, as follows:
 - a. CBC's May 2, 2016 Complaint filed in the Alameda Superior Court
 - b. UC's November 21, 2016 Third Amended Cross-Complaint
 - c. Presentation regarding the UC strawberry breeding program, entitled "Addressing 21st Century challenges through genetic Innovation"
- 2. Interview with Dr. Douglas Shaw and Mr. Lucky Westwood, the results of which are summarized in the preceding section
- 3. UC licensing results of certain cultivars, as follows:
 - a. UC STRAW2 00058007 and UC STRAW2 00075844, both of which show plants licensed from 1991 through 2014
 - b. UC STRAW2 00075847, showing royalties from 1994 through 2016
 - c. UC STRAW2 00075842, showing "inventor shares", aka Exhibit 102 from the Shaw deposition
- 4. December 14, 2015 memorandum discussing SBP royalty rates (UC STRAW2 000085284 7)
- 5. December 2014 UC internal audit report regarding the UC strawberry breeding program, project #14-75 (UC STRAW2 00077123 184)
- 6. California State Auditor Report 2014 121, dated June 9, 2015 (UC STRAW2 00077360 408)
- 7. Other documents and publicly-available information, as referenced herein

⁴ See comments contained in the December 2014 internal audit report on the SBP program on pages 5 and 12.

⁵ California State Auditor Report 2014 – 121, dated June 9, 2015

⁶ http://gcr.ucdavis.edu/state-govt/capitol-speaker-series/events/strawberry.pdf

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Fulcrum had available, and considered, additional information that does not directly enter into the calculations contained herein. This additional information generally consist of:

- 1. Depositions and exhibits thereto, as follows:
 - a. December 8, 2016 for Douglas Shaw, Ph.D.
 - b. December 16, 2016 for Steven Knapp, Ph.D.
 - c. January 5, 2017 for Lucky Westwood
- 2. A variety of financial planning documents and CBC historical financial statements, all bearing a production number with a CBC prefix
- 3. CBC's Motion for Temporary Restraining Order, and related exhibits

A more detailed listing of the records and their related production numbers that were available to Fulcrum is attached as Exhibit 4.

IV. SUMMARY OF FULCRUM'S CONCLUSIONS

Lost profit damages represent the present value of the difference between what should have happened (called the "but-for" world), and what actually has or will occur (called the "actual" world).

- 1. Absent the alleged wrongful conduct (the but-for world), UC would have shared access and ownership to the plant materials as of December 1, 2014, which would have allowed CBC to continue its development, patenting, and licensing efforts. CBC would have been able to patent the first cultivar in 2018 and commercialize this cultivar in 2019.
- 2. In the actual world, CBC implemented a similar level of effort, but faced delays having to start from scratch in a development cycle that typically lasts eight years. As a result, actual damages span over eight years.

Importantly, all of the calculations and conclusions contained in the rest of this section use, as their starting point, the dollar amount of royalties collected by UC. The use of dollars as the starting point in the analysis adds an element of imprecision (specifically, an understatement of the lost profits damages because:

- 1. The UC's rates have changed over time,⁷ yet the use of currency amounts does not reflect directly the growth in the units involved.
- 2. The royalties are a mixture of licenses to the following categories, each of which have a different royalty rate:⁸
 - a. California Currently \$8.00 per thousand plants
 - b. United States Currently \$9.00 per thousand plants
 - c. Outside U.S. & Canada Currently, \$16.50 per thousand plants

A more accurate calculation would consider the actual units shipped to each of these territories, applied to rates that CBC would use for each geography. I intend to perform such a calculation promptly using

⁷ UC STRAW2 000085284 – 7

⁸ UC STRAW2 00075847 and UC STRAW2 000085284 - 7

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the same general methodology described below. The more accurate calculation predictably will increase the amount of lost profits, most likely by a significant amount.

Prior to the completion of the more accurate calculation described in the preceding paragraph, the present value of lost profits comparing the but-for and actual worlds is **at least \$20,450,000**. Calculations of this amount are shown on Exhibit 1, and are explained as follows:

- 1. The historic licensing data for the nine cultivars listed in the "Background" (Section II) of this report are summarized. Six of these nine cultivars have not reached the end of their licensing capability. Fulcrum used a 21-year life for the more successful cultivars after considering the following:
 - a. As described in Section II, U.S. patents are effective for twenty years, with foreign licensing often lasing longer than this.
 - b. Some royalties occur while the patent is pending.
 - c. Reporting delays cause the receipt of royalties past the patent expiration date.
 - d. Multiple cultivars obtained royalties for more than 20 years. UC cultivars with long economic lives include Camarosa, Chandler, Oso Grande, Pajaro, Parker, Douglas, Selva, Fern, Hecker, and Aptos.⁹
- 2. To analyze the expected results of a lost cultivar, one needs to consider the entire licensing life of the cultivar. Additional future royalties (which are shaded in the last two pages of Exhibit 1) were estimated as follows:
 - a. Camino Real Revenues have been relatively stable for the past eight years, with declines being modest. Post-2016 revenues are estimated to continue for the rest of the 21-year maximum period at \$300,000 each year.
 - b. Ventana Revenues have been relatively stable for the past eight years, with only minor declines over the past six years. Post-2016 revenues are estimated to continue for the rest of the 21-year maximum period at \$500,000 each year.
 - c. Albion Although recent revenues are less than the preceding four peak years, revenues remain large. Post-2016 revenues are estimated to continue for the remaining 21-year maximum period at \$1,300,000 for the next two years, \$1,000,000 for the next three years, and \$700,000 for the last three years.
 - d. Monterey Revenues continue to increase. Post-2016 revenues are estimated to be 80% of the actual and estimated future revenues for Albion, beginning in Albion's year 10.
 - e. San Andreas Post-2016 revenues are estimated to be equal to the actual and estimated future revenues for Albion, beginning in Albion's year 10.
 - f. Portola Revenues continue to increase. Post-2016 revenues are estimated to be equal to the actual and estimated future revenues for Ventana, beginning in Ventana's year 10.

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⁹ UC STRAW2 00058007, "total strawberry" tab

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- 3. As a reasonableness check on the above estimates for these six cultivars, Fulcrum made a second calculation of future expected revenues using an arithmetic average of royalties for whatever actual licensing period exists for that cultivar. The remaining portion of the 21-year maximum period use the arithmetic average royalty. Predictably, this calculation understates the future royalties because it gives equal weight to each of the first few licensing years, when the amounts involved are small and not representative of what will occur with an established cultivar. The results of this reasonableness check are shown on the last page of Exhibit 1, and support the reasonableness of the first calculation Fulcrum prepared.
- 4. As described in Section II, CBC's royalties will be at least 25% greater than what UC obtained.
- 5. The overall average licensing results using the two calculations describe above are shown on the third page of Exhibit 1 and are graphed in Exhibit 2. UC's past licensing history, as calculated above and on Exhibit 1, show that the average cultivar will generate \$12,840,000 for CBC in lifetime royalties.
- 6. Over the eight years that CBC will miss cultivars because of UC's conduct, CBC will miss \$102,720,000 of royalties (calculated as eight cultivars, at an average of \$12,840,000 for each cultivar).
- 7. The revenue streams described above are royalties, for which there are only immaterial incremental expenses. Expenses are estimated at \$1,500,000 annually under both the but-for and actual world. Because the level of expenses are the same, expenses need not be an explicit part of the calculation because one would be comparing identical amounts. Similarly, any misestimating of expenses does not alter the damage conclusion.
- 8. Inflation is expected to be 4% annually. A lower rate of inflation (which would be justified by historical inflation in the last several years) of approximately 2% to 3 % would increase damages.
- 9. A 15% compound annual discount rate is used. This is a reasonable discount rate for an established technology-based endeavor. The discount rate address both the time value of money and the business risk of this business. In this calculation a net discount rate is used; meaning, the 15% discount and 4% inflation are offset to equal a net 11%. This provides mathematical simplification, but otherwise is an identical mathematical result when compared to treating the discount rate and inflation separately. As would be typical when royalties are received throughout the year, a mid-year discounting convention is used.

The damages resulting from the discounting of eight years of missed cultivars is shown on the first page of Exhibit 1. For comparison, a similar calculation using the reasonableness-check revenues of \$11,670,000 per average cultivar is shown on the second page of Exhibit 1.

The use of a discount rate that includes business risk addresses the possible concern that the future projections to which the discount rate is applied is otherwise "speculative". The discount rate is primarily based on future business risks, and serves to reduce substantially the damages calculated. Because of this discount, the damages are reasonably certainty because (i) all of the inputs have a historical basis, (ii) the methodology used is generally accepted and widely used, and (iii) substantially larger amounts could otherwise be presented, so the remaining amount represents a reasonable minimum. The total discount contained in this calculation is the difference between the \$102,720,000 of undiscounted royalties, and the \$20,450,000 of damages presented herein. The total discount is \$82,270,000, or 80 percent.

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V. OTHER REQUIRED INFORMATION

A. QUALIFICATIONS FOR OFFERING OPINIONS

Attached as <u>Exhibit 3</u> is a copy of my curriculum vitae summarizing my education, experience and qualifications. <u>Exhibit 3</u> also includes a listing of the cases in which I have testified as an expert at trial or by deposition within the preceding four years, and publications that I have authored in the last ten years.

B. COMPENSATION

Fulcrum is being paid at its normal hourly rates for the persons involved in the assignment. Our compensation is not contingent on the conclusions reached or ultimate resolution of the case. My personal hourly rate is currently \$625.

Very truly yours,

Fulcrum Financial Inquiry LLP

By: David Molte

David Nolte

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1	Having considered the University's Motion in limine No. 6: Re: The Impact of the Court's
2	Summary Judgment Ruling on Evidence and Argument Related to CBC's Implied Covenant
3	Claim and The University's Breach of Contract Claim, the evidence submitted therewith, the
4	opposition thereto, and all related documents on file in this action, the Court hereby GRANTS the
5	University's Motion in limine No. 6 and (1) limits evidence or argument regarding CBC's
6	purported breach of the implied covenant of good faith and fair dealing to evidence or argument
7	regarding the patenting of the CSG, and (2) permits presentation of evidence and argument
8	regarding Dr. Shaw and Larson's breaches of their employment agreements to the jury.
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10	IT IS SO ORDERED.
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12	Dated:
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14	The Honorable Vince Chhabria
15	United States District Judge
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1	Having considered The Regents of the University of California's (the "University")
2	Motion In Limine No. 6 Re: The Impact of the Court's Summary Judgment Ruling On Evidence
3	and Argument and California Berry Cultivars, LLC, Douglas Shaw, and Kirk Larson's
4	Opposition thereto, the supporting memoranda of points and authorities, the evidence submitted
5	therewith, the arguments of counsel for the parties in connection therewith, if any, and finding
6	good cause therefore, this Court HEREBY DENIES the University's motion in its entirety.
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8	IT IS SO ORDERED.
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11	Dated:
12	HONORABLE VINCE CHHABRIA U.S. DISTRICT COURT JUDGE
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20	(DDADASED) ADDED DENVING

[PROPOSED] ORDER DENYING UC's MIL No. 6 Case No. 3:16-cv-02477-VC