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IN THE UNITED STATES DISTRICT COURT

FOR THE NORTHERN DISTRICT OF CALIFORNIA

ORACLE AMERICA, INC.,

No. C 10-03561 WHA

Plaintiff,

v.

GOOGLE INC.,

Defendant.

ORDER GRANTING IN PART AND DENYING IN PART GOOGLE'S MOTION IN LIMINE NUMBER THREE TO EXCLUDE PORTIONS OF DR. COCKBURN'S REVISED DAMAGES REPORT

INTRODUCTION

In this patent and copyright infringement action involving Java and Android, defendant challenges plaintiff's revised expert damages report. For the following reasons, the motion is **GRANTED IN PART** and **DENIED IN PART**.

STATEMENT

The background was set forth in previous orders (*see* Dkt. Nos. 137, 230, 433). A July 22 order rejected Dr. Cockburn's first damages report for failing to apportion the value of the asserted claims and instead using the total value of Java and Android in calculating damages, among other reasons (Dkt. No. 230).

In his substitute damages report, Dr. Cockburn calculated damages in total, through the end of 2012, to be approximately two and a half billion dollars. This was broken down as follows. He estimated damages from 2007 through 2011, to be \$201.8 million for patent infringement, \$823.9 million in unjust enrichment for copyright infringement (not deducting for expenses or apportionment), and \$136.2 million in lost profits or \$102.6 million in lost licensing

fees for copyright infringement (Cockburn Report ¶¶ 47, 467, 496, and 474; Exhs. 3, 22, 23).

Dr. Cockburn calculated patent damages using a hypothetical negotiation method: as had been suggested in a prior order, he began with a \$100 million starting value that was based on a real-world negotiation between the parties in 2006. He then adjusted downward for patent apportionment, then adjusted upward for lost revenue that was expected from the licensing agreement (Rpt ¶ 19). The same methodology was used to calculate a hypothetical lost license fee for copyright infringement (Rpt Exhs. 23–24). Unjust enrichment was calculated by adding together Android's ad revenue, the hardware revenue from selling Nexus phones, and applications sales in the Android Market store (Rpt ¶ 466). Lost profits were calculated by adding together lost revenue from licensing Java, ancillary revenue from back-end services, and revenue from a smartphone operating system (Rpt ¶ 475). Using similar methodology, Dr. Cockburn also estimated future damages through the end of 2012 to be \$1.2 billion in unjust enrichment for copyright infringement, \$102.6 million in lost license fees for copyright infringement, and \$205.2 million for patent damages (Cockburn Rpt Exhs. 22, 25, 18). Again, the grand total came to approximately two and a half billion dollars.

Following motion practice directed at the new substitute report, a tentative order issued on December 6, 2011 (Dkt. No. 642). Parties submitted critiques of the tentative order (Dkt. Nos. 651, 652), and arguments were heard at the final pretrial conference on December 21, 2011. Post-hearing briefs and responses were submitted on January 5 and 9. This order is the final order and it strikes major portions of the substitute report.

ANALYSIS

An expert witness may provide opinion testimony "if (1) the testimony is based upon sufficient facts or data, (2) the testimony is the product of reliable principles and methods, and (3) the witness has applied the principles and methods reliably to the facts of the case." FRE 702. District courts thus "are charged with a 'gatekeeping role,' the objective of which is to ensure that expert testimony admitted into evidence is both reliable and relevant." *Sundance, Inc. v. DeMonte Fabricating Ltd.*, 550 F.3d 1356, 1360 (Fed. Cir. 2008).

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Google raises several objections to Dr. Cockburn's report. Each of Google's arguments will be addressed below.

1. COPYRIGHT LOST LICENSE FEE.

Dr. Cockburn calculated actual damages for copyright infringement using the lost license fee approach. He did so by determining what Google would have paid to license the use of the copyrights at issue in a hypothetical negotiation with Sun at the time of infringement. Google now argues that the hypothetical negotiation approach cannot be used to calculate the lost licensee fee. Google contends that any hypothetical negotiation would be excessively speculative under Daubert because Sun never licensed an incompatible version of Java to competitors, and would not have done so with Google at the time of infringement. Therefore any calculation of actual damages based on a hypothetical negotiation must be excessively speculative (Br. 4, Supp. Br. 11–14). This order disagrees.

In the context of copyright infringement, the hypothetical lost license fee can be based on the fair market value of the copyright at the time of infringement. Polar Bear Productions, Inc. v. Timex Corp., 384 F.3d 700, 709 (9th Cir. 2004). "To determine the work's 'market value' at the time of the infringement, we have endorsed a hypothetical approach: what a willing buyer would have been reasonably required to pay to a willing seller for the owner's work." *Mackie v. Rieser*, 296 F.3d 909, 917 (9th Cir. 2002) (citations omitted). This standard is similar, if not the same, as the standard for calculating a reasonably royalty in the context of patent damages. For a reasonable royalty for patent infringement, the hypothetical negotiation also requires the court to envision the terms of a licensing agreement reached as the result of a supposed meeting between the patentee and the infringer at the time infringement began. Rite-Hite Corp. v. Kelley Co., Inc., 56 F.3d 1538, 1554 (Fed. Cir. 1995).

Google argues that because Sun never licensed its Java copyrights in agreements that also allowed the licensee to develop an incompatible version of Java, any calculation of the hypothetical lost license fee would be incurably speculative under *Daubert*. This argument fights the hypothetical. In order to calculate the lost licensing fee, the hypothetical licensing agreement must be reached as the result of a hypothetical meeting between the parties. See Rite-Hite Corp.,

56 F.3d at 1554 (patent reasonable royalty). Although our court of appeals has not explicitly held so, the Second Circuit has held that whether the parties might in fact have negotiated is irrelevant to the purpose of the lost licensing fee calculation for copyright damages. *On Davis v. The Gap*, *Inc.*, 246 F.3d 152, 171–72 (2nd Cir. 2001). The hypothetical negotiation is only a means for calculating the fair market value. It is the fair market value that must not be speculative under *Daubert*.

Dr. Cockburn had a non-speculative factual basis to value a license for an incompatible version of Java. Dr. Cockburn did so by starting with the real-world negotiations between Sun and Google for a compatible Java, and then adjusting that amount up to compensate for the incompatibility. The amount of the upward adjustment was based on Sun's own revenue projections at the time for the value of compatibility. Dr. Cockburn's calculation was sufficiently based on real-world facts. This calculation was not speculative under *Daubert*. Google's objections are overruled.

2. STARTING POINT OF \$100 MILLION.

For both copyright lost license fee and patent reasonable royalty calculations, Google argues that Dr. Cockburn erred by using \$100 million as his starting point for the hypothetical negotiation instead of \$28 million, which was the amount in a draft agreement proposed by Sun dated April 19, 2006, for a "broad technology partnership" between the parties (Br. 2). This order disagrees.

Dr. Cockburn's decision not to use the \$28 million draft agreement as the starting point was within the bounds of reason, although a jury may eventually reject the premise and therefore everything that depends from it. Contrary to Google's assertion that Dr. Cockburn ignored the agreement, he actually addressed it over two pages in his report (Rpt ¶ 211–16). Dr. Cockburn opined that important terms of the \$28 million draft agreement were still being negotiated (Rpt ¶ 212). As a factual basis for his opinion that terms were not finalized, Dr. Cockburn cited the "Go To Market Plan" section of the agreement, which had the following text: "Need to discuss. We propose agreement to the price in return for Sun's hosting & ISV leadership" (Rpt ¶ 211) (emphasis added). Dr. Cockburn also cited emails from Sun executives suggesting

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that management had not decided on the final terms of the agreement (Rpt ¶¶ 213–16). Google has not rebutted those citations. Having reviewed the available record, this order finds that Dr. Cockburn reasonably relied on sufficient facts when rejecting the \$28 million draft agreement as a starting point. This does not, of course, mean reasonable experts could not have honest differences of professional opinion on this point and it will be up to the jury to reach its own judgment after hearing both opinions.

This order also finds that Dr. Cockburn did not err in using \$100 million as the starting point. Dr. Cockburn extensively reviewed the entire licensing history between the parties (Rpt ¶¶ 191–221). The \$100 million offer was actually on the table during real-world negotiations between Google and Sun in February and April 2006 (Rpt ¶¶ 196, 207). Dr. Cockburn decided on a \$100 million fee for "a worldwide [Java] license" (Rpt ¶ 228). Although not entirely clear from Dr. Cockburn's report, this license would likely have included "all Sun owned CD JavaME technologies, unencumbered rights" and "engineering and back-end support and services," and "joint promotion of the Java brand" (Rpt ¶¶ 230–31). Dr. Cockburn also opined that this \$100 million amount would have been structured as \$60 million in fixed payments and the remainder as ad-revenue sharing (Rpt. Exh. 14). This deal was very similar to the opening draft agreement by the parties in February 2006, and could reasonably be the basis for a hypothetical negotiation. Google's arguments must be directed to the jury.

UPWARD ADJUSTMENT OF THE STARTING POINT. **3.**

For both copyright lost license fee and patent reasonable royalty calculations, Dr. Cockburn adjusted his starting point upward to account for lost convoyed sales that was expected from real-world negotiations (Rpt Exh. 3). Google argues that this upward adjustment was speculative because Dr. Cockburn relied on "a single internal Sun presentation that roughly sketch[ed] a projection of the money Sun might earn from a partnership with Google," (Br. 5). Google argues that this presentation reflected "Sun's optimistic hope, without any grounding in experience or past practice, that it might be able to earn money by partnering with Google" (Br. 5); and that Dr. Cockburn improperly ignored the fact that this would have been a new line of

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business, he did not vet the reliability of the projections with anyone at Oracle, and he did not see any other documents to support the lost-profits projection (Br. 10).

A patent owner may be able to recover directly for loss of collateral sales on a lost-profits theory. But lost convoyed sales also remain relevant to a reasonable royalty even where the patent owner's proof is insufficient to show lost profit. Georgia-Pacific Corp. v. United States Plywood Corp., 318 F. Supp. 1116, 1121, 1128–1130 (S.D.N.Y. 1970); see also Rite-Hite Corp. v. Kelley Co., Inc., 56 F.3d 1538, 1554–55 (Fed. Cir. 1995) (same).

Dr. Cockburn based his upward adjustment on three factors: first, "harm to Sun, in the form of foregone licensing revenues and convoyed sales that Sun expected to generate pursuant to" licensing its technology to Google; second, "the effect of fragmentation on non-mobile Java revenues portended by [alleged] infringement;" and third, a "litigation premium" reflecting the fact that the hypothetical negotiation must assume that the patents are valid and infringed (Rpt ¶¶ 35–40). Although noting that the harm from fragmentation would have been great, Dr. Cockburn opined that only lost convoyed sales had a reasonably certain value (*ibid*.; Cockburn Dep. at 176:12–16).

This upward adjustment was not improper under *Daubert*. From the parties' discussions during the 2006 negotiations and Sun's business model, it was clear that Sun expected convoyed sales after licensing a compatible version of Java to Google. Sun's expectations were catalogued qualitatively in a variety of documents (see, e.g., Rpt ¶¶ 297–99) and quantitatively in financial projections (Rpt ¶¶ 298–302; Purcell Exhs. 18–19). The jury could reasonably find that Google's infringement led to an Android that was incompatible with Java and precluded Sun from receiving convoyed sales "through licensing royalty bearing commercial implementations, using TCK licenses to maintain the integrity of the Java platform, and providing backend services and potentially other revenue opportunities" (Rpt ¶ 288). If so, then the hypothetical negotiation should take that lost revenue into account and upwardly adjust the licensing fee Sun would have required to license an incompatible version of Java. Dr. Cockburn had a sufficient factual basis for this calculation to allow it to be in play before the jury.

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While the amount of adjustment involves an element of uncertainty, Dr. Cockburn's quantitative analysis was based on sufficiently reliable financial projections. The Federal Circuit has upheld a hypothetical royalty based on a contemporaneously created business plan projecting revenue. Interactive Pictures Corp. v. Infinite Pictures, Inc., 274 F.3d 1371, 1385 (Fed. Cir. 2001). The convoyed-sales projections were contemporaneously calculated by Kathleen Knopoff, a senior director of business operations at Sun. Google does not explain why Ms. Knopoff would have projected an overly optimistic amount. Google's objections to the upward adjustment are overruled.

4. APPORTIONMENT OF THE STARTING VALUE AND UPWARD ADJUSTMENT.

The July order stated a strong view that the patent hypothetical negotiation should use the \$100 million offer in 2006 as the starting point and then make appropriate adjustments. The order, however, expressly stated that it did not rule out other formats of analysis.

Dr. Cockburn elected to use the \$100 million offer as a starting point for both copyright lost license fee and patent reasonable royalty calculations. But, this order holds, he failed to apportion that \$100 million offer properly between the 26 claims in suit versus all other items in the 2006 offer. He did make a stab at an apportionment but his apportionment methodology was flawed.

His method was to review future 2008–2011 data to estimate the impact of certain features in the 2008–2011 marketplace. One such feature, for example, was faster processing time. The features tested were those allegedly enabled by the claims in suit. His method ran many eBay transactions collected between January 2010 and June 2011 through a statistical analysis and estimated the importance of the feature to consumers. This in turn led to an estimate of the extent to which the feature contributed to 2008–2011 demand for Android. Overall, he estimated that the claimed functionalities accounted for 30 percent of the overall Android revenues, that is, revenues for Android would have been 30 percent less had the claimed functionalities been deleted from Android. This is for the patent claims only. Another 15 percent was attributed to the alleged copyright violations.

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Dr. Cockburn then assumed that this outcome would have been foreseeable in 2006 at the time of the hypothetical negotiation and thus 30 percent of the value of the actual 2006 offer should be attributed to the patent claims in suit and another 15 percent to the copyright claims in suit, leaving 55 percent to be spread over the many thousands of other know-how items included in the 2006 offer.

The main flaw in this method is that the universe of know-how included in Android during 2008–2011 was different from the universe of know-how included in the 2006 offer. Put differently, Android today undoubtedly represents some Java know-how, some technology owned by strangers to this litigation (presumably licensed), and a fair dose of Google's own engineering. The 2006 offer, in constrast, represented thousands of Java-related features, many of which never made it into Android but nonetheless would have had value. Dr. Cockburn failed to account for this disconnect. For all that is shown, the thousands of other items in the 2006 offer might have deserved far more than 55 percent of the total pie. Dr. Cockburn made no attempt to evaluate the remainder of the items offered for license in 2006.

It is no answer to say, as Dr. Cockburn did in his footnote 327, that his approach is "conservative." The meaning of the turbid footnote is bewildering. It does not escape the apples-and-oranges problem. While the after-the-fact studies arguably show that the claims in suit eventually contributed strongly to the success of Android, and while those studies possibly show that a reasonable negotiator in Google's position in 2006 would have been willing to assign a disporportionate share of the \$100 million to the claims in suit, the fact remains that the rest of the 2006 bundle does not bear any relationship to the rest of the modern Android, for all the record shows. Reasonable parties in 2006 might well have viewed the rest of Java as worth far more than the claims conveniently selected for litigation after the fact. This order assumes without deciding that the after-the-fact studies are valid enough to go to the jury.

If the \$100 million offer in 2006 is used as the starting point, as the July order suggested (but did not require), then a fair apportionment of the \$100 million as between the technology in suit and the remainder of the technology then offered must be made. One way this might be done would be to divide the thousands of items into coherent groups and to evaluate the relative

importance of the groups and to apportion the \$100 million across the groups in proportion to their relative importance. The group or groups including the 26 claims in suit would further need to be apportioned as between these claims versus the rest of the group members. Other methods might be viable as well. Dr. Cockburn's method, however, does not withstand scrutiny. His damages opinions on apportionment and calculations based on apportionment (including patent damages and copyright lost license fee) are **STRICKEN**.

It is important to state that this order does not strike Dr. Cockburn's opinion on the unjust enrichment from copyright infringement. Under copyright law, the burden is on Google to allocate Android profit based on the copyrights in suit versus other non-infringing contributions. *See* 17 U.S.C. 504(b). Possibly, that allocation will substantially whittle down the claimed unjust enrichment. This order does not disturb that portion of Dr. Cockburn's opinion. Similarly, this order does not disturb Dr. Cockburn's lost profit analysis for copyright. These calculations were not based on Dr. Cockburn's apportionment and have not been challenged under *Daubert*.

5. CLAIM-BY-CLAIM INSTEAD OF PATENT-BY-PATENT ANALYSIS.

Google argues that Dr. Cockburn should have conducted a claim-by-claim analysis of damages instead of a patent-by-patent analysis (Br. 9). As such, Google requests that Dr. Cockburn be precluded from apportioning an asserted patent's value among its claims at trial (*ibid.*). This order agrees.

The July 22 order stated that a claim-by-claim analysis of damages was needed: "determining the date of first infringement requires a claim-by-claim analysis" (Dkt. No. 230 at 7). There are a number of reasons. *First*, a single patent can include many distinct variations of an invention, each represented by its own claim. Some may be apparatus claims. Some may be method claims. A single patent may include many apparatus claims, again each represented by its own claim. The same is true for methods. An infringer of one claim is compelled by law to pay for a license, via the hypothetical negotiation, for the specific invention represented by that claim but it is not required to pay for a license for the other specific inventions not infringed. Therefore, the hypothetical negotiation must be focused only on negotiating a compulsory license for each claim infringed, not for the entire patent.

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Second, some of the asserted claims might be less valuable, or easier to design around, than other claims contained within that same patent.

Third, the jury may find liability on some claims but not others in the same patent, or some claims may be rejected by the USPTO on re-examination.

Fourth, if liability is found on a claim, it may be possible to extend the royalty rate found by the jury on that claim into the future as a condition of not granting an injunction.

Oracle does not deny that Dr. Cockburn treated each patent as an indivisible whole (see Rpt Exhs. 2, 4–13). It is a mystery why Oracle and Dr. Cockburn deliberately choose to disregard this aspect of the July order.

6. NO DIVISION OF SEPARATE COPYRIGHT CLAIMS.

In a parallel manner, Google argues that Dr. Cockburn erred by not separating copyright damages for the two categories of copyrighted material asserted in this action: the lines of Android source code and the structure, arrangement, and selection of the Application Programming Interfaces (API) packages. This order agrees.

Dr. Cockburn's discussion of copyright damages focused almost entirely on the value of the APIs (see Rpt Part XI). But if the structure, arrangement, and selection of the APIs is not copyrightable or if Google engaged in fair use with respect to APIs, then Oracle's copyright claim would be limited to only a dozen code files. Dr. Cockburn has not adequately valued that code in his report and cannot do so at trial. This order holds that the jury will be instructed that if Google is found not liable for infringing the selection, arrangement, and structure of the API packages, then Dr. Cockburn's copyright damages analysis is inapplicable.

7. INADEQUATE CALCULATION OF FUTURE DAMAGES.

In the context of patent infringement, Google argues that Dr. Cockburn erred by calculating future damages only for one year after past damages and not taking into account the varying expiration dates of the asserted patent claims (Br. 7–8). Oracle does not deny that Dr. Cockburn only calculated damages through the end of 2012 and did not calculate damages for unexpired patents after that date. Nor did Dr. Cockburn calculate damages or a royalty rate past the end of 2012 for copyright infringement.

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If liability is established at trial, the jury will be asked to make a finding of the reasonable royalty rate for each infringed patent claim and copyright. If an injunction is not granted, then the royalty rate found by the jury will be used to award supplemental damages on a year-to-year basis, this for ongoing damages after the last damages period calculated. If an injunction is granted, there will be no need for future damages. Either way, Dr. Cockburn will not be allowed to testify about damages after the end of 2012.

8. REFERRING TO LICENSES INVOLVING UNRELATED TECHNOLOGY AND PARTIES.

Google argues that Dr. Cockburn should be precluded from referring to noncomparable licenses and settlements involving other companies (Supp. Br. 16). Specifically, Google seeks to preclude Dr. Cockburn from testifying regarding past licenses involving Nokia, Qualcomm, and Apple, and settlements between Sun and Microsoft (Br. 9–10).

Damges experts cannot use noncomparable licenses, with little relationship to the claimed invention or parties-in-suit, as a basis for calculating reasonable royalties. See ResQNet, Inc. v. Lansa, Inc., 594 F.3d 860, 870 (Fed. Cir. 2010).

In his report, Dr. Cockburn cursorily discussed licenses involving Nokia, Qualcomm, and Apple (Rpt ¶¶ 104–105). Other than listing the licensing amounts, Dr. Cockburn did little to describe these licenses. The only description given about the technology was that the licenses involved "intellectual property associated with mobile devices and services" (Rpt ¶ 104). Importantly, Dr. Cockburn did not specify whether the referenced licenses related to software or hardware, or how extensive the licenses were. Because there was so little information given about these licenses, this order cannot see how a jury could adequately evaluate the probative value of those agreements. References in Dr. Cockburn's report to these licenses are **STRICKEN**.

Dr. Cockburn also referenced the settlement entered into between Sun and Microsoft in 2004, under which Microsoft agreed to pay Sun over one billion dollars to settle ongoing litigation and to enter into license agreements (Rpt ¶¶ 70–71). Dr. Cockburn opined that the settlement exemplified the importance of compatibility to Java because Microsoft was threatening to fragment the Java platform (ibid.).

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The problem with Dr. Cockburn's analysis is that he confused two separate litigations between Sun and Microsoft in the late-1990s and early-2000s. Dr. Cockburn used Sun's complaint from the earlier litigation to describe the importance of the settlement amount from the later litigation (Rpt ¶ 71). More specifically, Sun sued Microsoft in 1997 for \$35 million, alleging that Microsoft had breached its contract by trying to extend Java so it would work differently on Windows computers. Sun Microsystems, Inc. v. Microsoft Corp, No. 97-20884 RMW (N.D. Cal). One of Sun's main arguments in the case was that Microsoft wrongfully advertised that its products were Java-compatible because, in Sun's eyes, they were not. The two parties settled in 2001 for \$20 million. Sun, Microsoft settle Java suit, CNET News, January 23, 2001, accessed at http://news.cnet.com/2100-1001-251401.html.

In 2002, Sun sued Microsoft for one billion dollars claiming that Microsoft had engaged in anticompetitive actions against Java. Sun Microsystems, Inc. v. Microsoft Corp, No. 02-01150 RMW (N.D. Cal). In 2004, Sun and Microsoft settled that lawsuit (Rpt ¶ 71). The settlement involved payments of \$700 million by Microsoft to resolve pending antitrust issues and \$900 million to release all possible patent claims. This second settlement was about more than fragmentation, patent and copyright infringement. That litigation featured antitrust issues. It is too dissimilar to be helpful for calculating damages.

The Microsoft-Sun litigation can be used for one very limited purpose, and that is to show that Sun did have a policy to disfavor fragmentation. However, the settlement of that litigation was much broader than the patent claims and copyrights-in-suit, and for that matter, Java. The settlement sums paid by Microsoft would serve no purpose other than laying large numbers in front of our jury. Therefore, the expert will be permitted, pursuant to the rules of evidence and the rest of this order, to use the Microsoft-Sun litigation only to show that Sun took fragmentation seriously. The settlement amounts, or any allusions to settlement amounts, cannot be referenced in front of the jury.

CONCLUSION

For the reasons stated above, Google's motion in limine is **GRANTED IN PART** and **DENIED IN PART.** Any portion of the report based on the apportionment of the patent claims and

copyrights-in-suit is **STRICKEN**. Specifically, references to the \$400 million in patent damages through the end of 2012 are stricken. References to the value of each patent are stricken. References to copyright lost licensee fee are stricken. However, calculations of copyright unjust enrichment and copyright lost profits are not stricken.

References to nonparty licenses and settlements are **PARTIALLY STRICKEN**. Specifically, references regarding past licenses involving Nokia, Qualcomm, and Apple are stricken. The litigation between Sun and Microsoft can only be used for the limited purpose of showing that Sun had a policy disfavoring fragmentation.

Dr. Cockburn will not be able to testify about damages after the end of 2012. There was nothing in his report that calculated damages past 2012. His calculations of the future values of individual patents and copyrights based on apportionment are stricken. His testimony will not be helpful for calculating ongoing royalties if an injunction is not granted.

By JANUARY 17, 2012, AT NOON, both parties may submit 20-page memoranda on whether Dr. Cockburn should be allowed a third try. By JANUARY 20 AT NOON, both sides may submit five-page replies.

IT IS SO ORDERED.

Dated: January 9, 2012.

WILLIAM ALSUP UNITED STATES DISTRICT JUDGE