

**IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF DELAWARE**

ENHANCED AUDIO SYSTEMS, LLC,

Plaintiff,

v.

FUJITSU LTD. and FUJITSU AMERICA,
INC.,

Defendants.

Civil Action No. _____

JURY TRIAL DEMANDED

COMPLAINT FOR PATENT INFRINGEMENT

Plaintiff Enhanced Audio Systems, LLC (“Enhanced Audio” or “Plaintiff”), for its Complaint against Defendants Fujitsu Ltd. and Fujitsu America, Inc. (“Fujitsu U.S.A.”) (individually each a “Defendant” and collectively “Defendants” or “Fujitsu”) alleges the following:

NATURE OF THE ACTION

1. This is an action for patent infringement arising under the Patent Laws of the United States, 35 U.S.C. § 1 *et seq.*

THE PARTIES

2. Plaintiff is a limited liability company organized under the laws of the State of Delaware and can be served through its registered agent at 717 North Union Street, Wilmington, Delaware 19805.

3. Upon information and belief, Fujitsu Ltd. is a corporation organized and existing under the laws of Japan, with its principal place of business at Shiodome City Center 1-5-2 Higashi-Shimbashi, Minato-ku Tokyo 105-7123, Japan. Upon information and belief, Fujitsu Ltd. sells and offers to sell products and services throughout the United States, including in this

judicial district, and introduces products and services that into the stream of commerce and that incorporate infringing technology knowing that they would be sold in this judicial district and elsewhere in the United States.

4. Upon information and belief, Fujitsu U.S.A. is a corporation organized and existing under the laws of California, with a place of business at 1250 E. Arques Avenue, Sunnyvale, California 94085-3470, and can be served through its registered agent, The Corporation Trust Company, Corporation Trust Center 1209 Orange Street, Wilmington, Delaware 19801. Upon information and belief, Fujitsu U.S.A. sells and offers to sell products and services throughout the United States, including in this judicial district, and introduces products and services that into the stream of commerce and that incorporate infringing technology knowing that they would be sold in this judicial district and elsewhere in the United States.

JURISDICTION AND VENUE

5. This is an action for patent infringement arising under the Patent Laws of the United States, Title 35 of the United States Code.

6. This Court has subject matter jurisdiction under 28 U.S.C. §§ 1331 and 1338(a).

7. Venue is proper in this judicial district under 28 U.S.C. §§ 1391(b), (c), (d) and/or 1400(b). On information and belief, each Defendant conducts business in this District, the claims alleged in this Complaint arise in this District, and the acts of infringement have taken place and are continuing to take place in this District.

8. On information and belief, each Defendant is subject to this Court's general and specific personal jurisdiction because each Defendant has sufficient minimum contacts within the State of Delaware, pursuant to due process and/or the Del. Code. Ann. Tit. 3, § 3104 because each Defendant purposefully availed itself of the privileges of conducting business in the State of Delaware, because each Defendant regularly conducts and solicits business within the State of

Delaware, and because Plaintiff's causes of action arise directly from each Defendant's business contacts and other activities in the State of Delaware.

COUNT I – INFRINGEMENT OF U.S. PATENT NO. 6,374,148

9. The allegations set forth in the foregoing paragraphs 1 through 8 are incorporated into this First Claim for Relief.

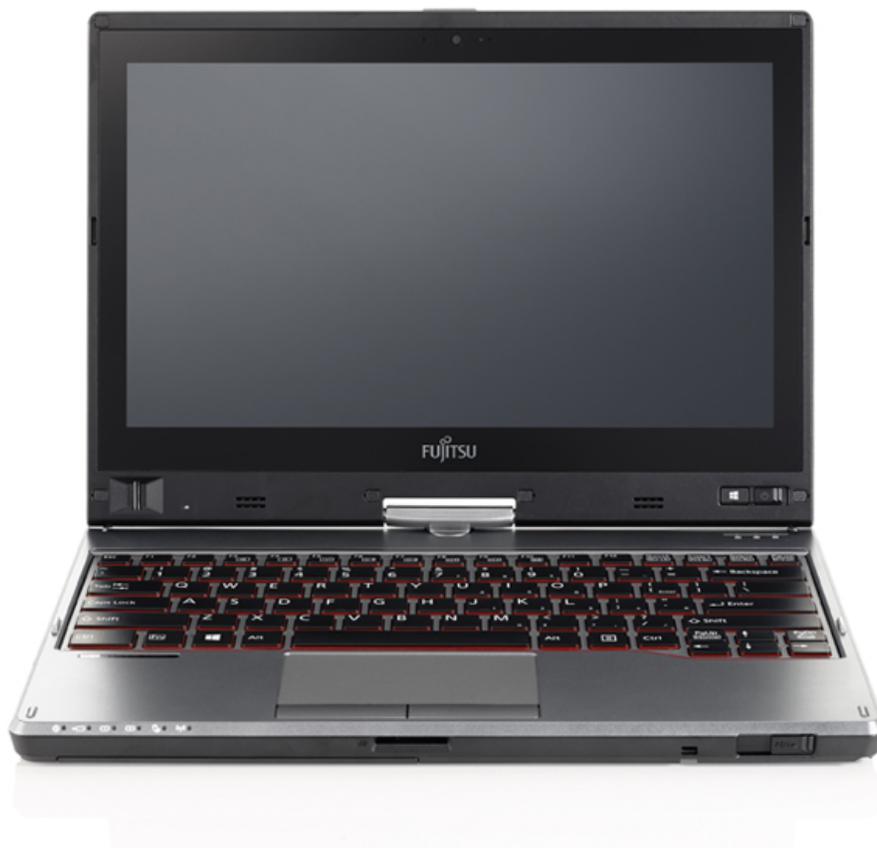
10. On April 16, 2002, U.S. Patent No. 6,374,148 (“the ’148 patent”), entitled “Portable-PC Audio System with Digital-Audio Links to External Audio in a Docking Station,” was duly and legally issued by the United States Patent and Trademark Office. A true and correct copy of the ’148 patent is attached as Exhibit 1.

11. Plaintiff is the assignee and owner of the right, title and interest in and to the ’148 patent, including the right to assert all causes of action arising under said patents and the right to any remedies for infringement of them.

12. Upon information and belief, each Defendant has and continues to directly infringe at least claims 1 and 15 of the ’148 patent by making, using, selling, importing and/or providing and causing to be used audio systems for portable personal computers within the scope of claims 1 and 15 of the ’148 patent, including, but not limited to, the products with the following designations or trade names: LIFEBOOK® E546, LIFEBOOK® E556, LIFEBOOK® E736, LIFEBOOK® E746, LIFEBOOK® E756, LIFEBOOK® U536, LIFEBOOK® U745, LIFEBOOK® T726 Tablet PC, LIFEBOOK® T936 Convertible Ultrabook™, STYLISTIC® R726 Office Hybrid Tablet PC, STYLISTIC® Q616 Tablet PC, STYLISTIC® Q736 Advanced Hybrid Tablet PC, STYLISTIC® V535 Mini Tablet PC, Docking Cradle (product #FPCPR114AQ), Docking Cradle (product #FPCPR202AP), U810 Docking Cradle, Docking Cradle (product #FPCPR237AP), USB Universal Docking Station with Video Port, Performance Docking Cradle (product #FPCPR242AP), Port Replicator (product #FPCPR132AP), Port

Replicator (product #FPCPR132AS), Port Replicator (product #FPCPR65AP), Port Replicator (product #FPCPR108AQ), Port Replicator (product #FPCPR119AP), Port Replicator (product #FPCPR120AP), Port Replicator (product #FPCPR126AQ), Port Replicator (product #FPCPR132AQ), Port Replicator (product #FPCPR231AR), Port Replicator (product #FPCPR245AP), Port Replicator (product #FPCPR253AP), Docking Cradle (product #FPCPR291AP), Performance Docking Cradle (product #FPCPR294AQ), Docking Cradle (product #FPCPR336AP), Port Replicator (product #FPCPR108AP), Targus USB Port Replicator, Port Replicator (product #FPCPR92AP), Port Replicator (product #FPCPR95AP), Port Replicator (product #FPCPR96AP), Universal Docking Cradle (product #FPCPR315AP), Keyboard Docking Station (US) (product #FPCKE427AP), Keyboard Docking Station (Bilingual) (product #FPCKE428AP), Power Keyboard Docking Station (US) (product #FPCKE432AP), Power Keyboard Docking Station (Bilingual) (product #FPCKE433AP), Keyboard Docking Station (US) with Battery (product #FPCPR197AP), Keyboard Docking Station (Bilingual) with Battery (product #FPCPR198AP), Keyboard Dock (US) (product #FPCKE080AP), Keyboard Dock (Bilingual) (product #FPCKE081AP) (the “Infringing Instrumentalities”). Exemplary images of the Infringing Instrumentalities are provided below:

LIFEBOOK® E556 Notebook









Port Replicator (product #FPCPR231AR)



13. Claim 1 of the '148 patent generally recites an audio system for a portable personal computer (PC) comprising: an internal audio controller for generating internal digital audio; an internal analog-digital converter for converting internal digital audio from the internal audio controller to analog audio for playing on an internal speaker; a docking-station connector for connecting the portable PC to a docking station, the docking-station connector containing high-speed digital signals for communicating data, address, and control to an expansion bus in the docking station, the expansion bus for receiving expansion cards to expand functions performed by the portable PC when the portable PC is connected to the docking station through

the docking-station connector; an external digital-audio link, using digital signals in the docking-station connector, for sending the internal digital audio generated by the internal audio controller to the docking station, and wherein digital-audio signals are sent over the external digital-audio link through the docking-station connector, whereby digital audio is generated inside the portable PC and transmitted as digital audio signals to the docking station.

14. As demonstrated in the exemplary images below, the Infringing Instrumentalities infringe claim 1 of the '148 patent because they are audio systems for a portable personal computer (PC)

LIFEBOOK® E556 Notebook









Port Replicator (product #FPCPR231AR)



comprising: an internal audio controller for generating internal digital audio; an internal analog-digital converter for converting internal digital audio from the internal audio controller to analog audio for playing on an internal speaker;

Data Sheet

FUJITSU Notebook LIFEBOOK E556

Audio type	On board
Audio codec	Realtek ALC255
Audio features	Stereo speakers

Interfaces

DC-in	1
Audio: line-out / headphone	1
Audio: line-in / microphone	1
Internal microphones	2x digital microphones (array)
USB 3.0 total	3 (1 with Anytime USB Charge functionality)
VGA	1
DisplayPort	1
Serial (RJ-232)	1x (optional)
Ethernet (Rj-45)	1
Memory card slots	1 (SD up to 2GB, SDHC up to 32GB, SDXC up to 128GB)
SmartCard slot	1 (optional)

Port Replicator interfaces (optional)

DC-in	1 (19V)
Power on switch	1
Audio: headphone	1
Audio: microphone	1
USB 3.0 total	4
DisplayPort	2 - 1 DP (next to DVI) is shared with DVI, works when DVI not connected
VGA	1
DVI	1 - shared with DP (next to DVI) - works when DP (next to DVI) not connected
Ethernet (RJ-45)	1 (10/100/1000)
Kensington Lock support	1 (1x port replicator)
eSATA	1

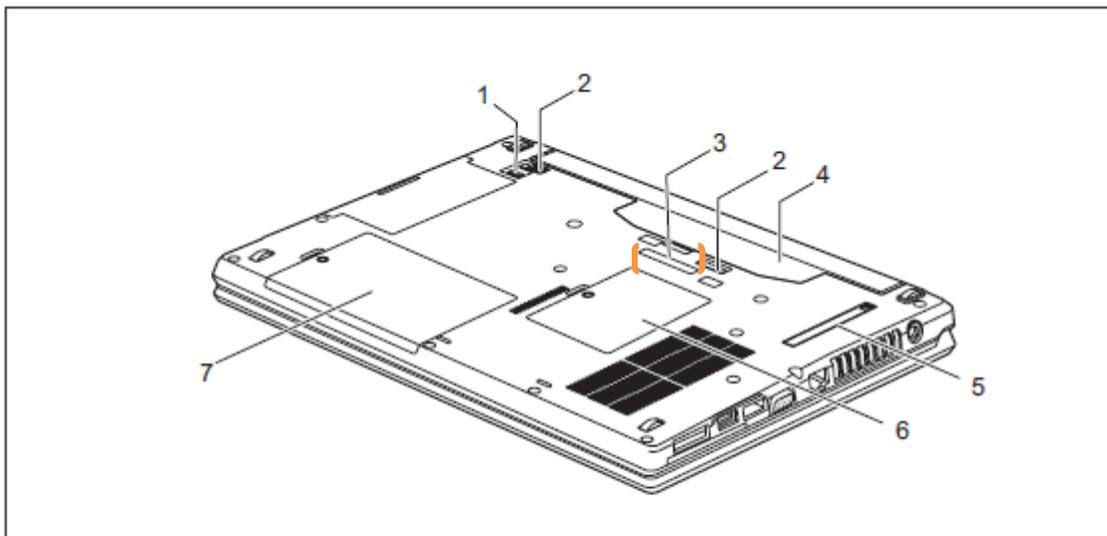
a docking-station connector (shown in **orange** below) for connecting the portable PC to a docking station,

FUJITSU LIFEBOOK E546

FUJITSU LIFEBOOK E556

Operating Manual

Bottom



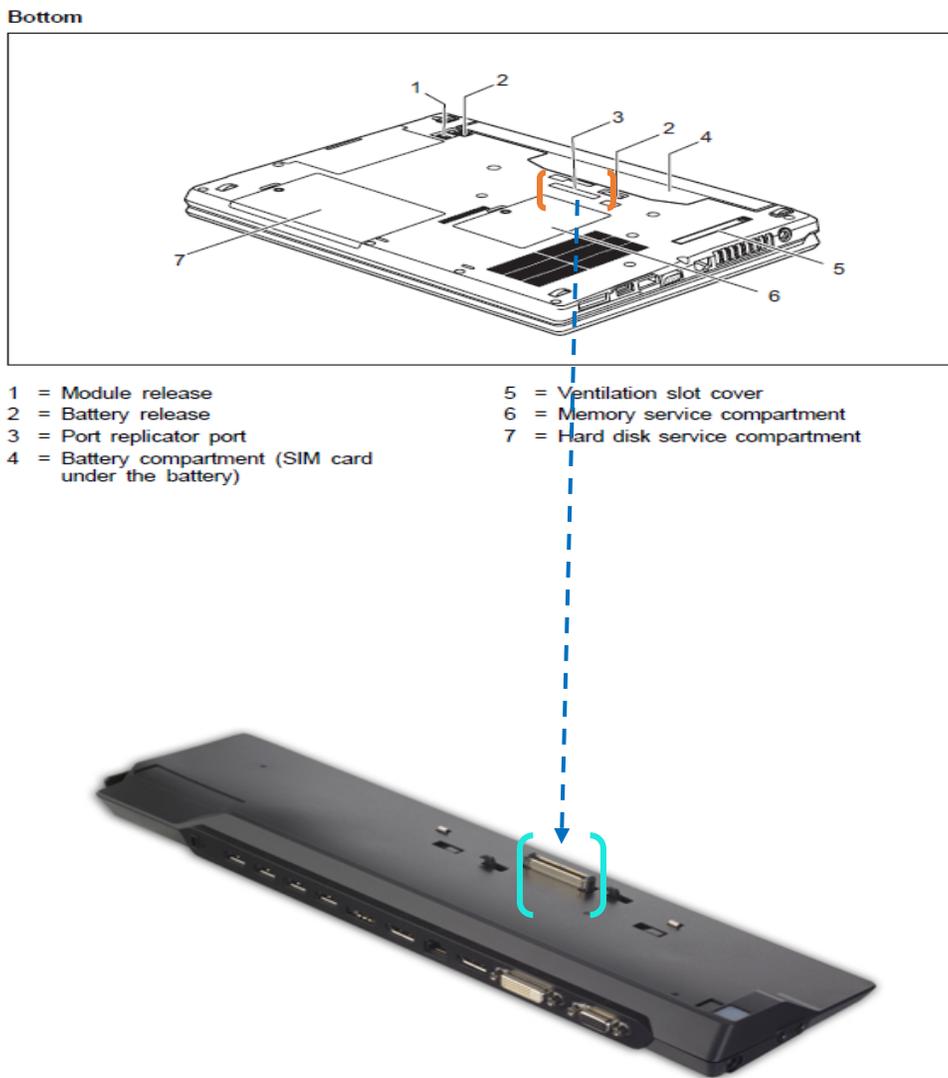
- | | |
|--|-----------------------------------|
| 1 = Module release | 5 = Ventilation slot cover |
| 2 = Battery release | 6 = Memory service compartment |
| (3 = Port replicator port) | 7 = Hard disk service compartment |
| 4 = Battery compartment (SIM card under the battery) | |

the docking-station connector containing high-speed digital signals for communicating data, address, and control to an expansion bus in the docking station (shown in [aqua](#) below), the expansion bus for receiving expansion cards to expand functions performed by the portable PC when the portable PC is connected to the docking station through the docking-station connector;



(HDMI ports immediately above are, at minimum, equivalent to the recited claim element.)

an external digital-audio link (shown with dashed **blue** line below), using digital signals in the docking-station connector, for sending the internal digital audio generated by the internal audio controller to the docking station, and wherein digital-audio signals are sent over the external digital-audio link through the docking-station connector, whereby digital audio is generated inside the portable PC and transmitted as digital audio signals to the docking station:



15. Claim 15 of the '148 patent generally recites a portable audio system for a portable personal computer (PC) comprising: internal audio controller means for generating internal digital audio; internal analog-digital converter means for converting digital audio from the internal audio controller means to analog audio for playing on an internal speaker means; docking-station connector means for connecting the portable PC to a docking station, the docking-station connector means containing high-speed digital signals for communicating data,

address, and control to a bus in the docking station, the bus for expanding functions performed by the portable PC when the portable PC is connected to the docking station through the docking-station connector means; external digital-audio link means, using digital signals in the docking-station connector means, using digital signals in the docking-station connector means, for sending the digital audio generated by the internal audio controller means to the docking station, and wherein digital audio signals are sent over the external digital-audio link means through the docking-station connector means, whereby digital audio is generated inside the portable PC and transmitted as digital audio signals to the docking station.

16. As demonstrated in the exemplary images below, the Infringing Instrumentalities infringe claim 15 of the '148 patent because they are portable audio systems for a portable personal computer (PC)

LIFEBOOK® E556 Notebook









Port Replicator (product #FPCPR231AR)



comprising: an internal audio controller means for generating internal digital audio;
internal analog-digital converter means for converting digital audio from the internal audio
controller means to analog audio for playing on an internal speaker means;

Data Sheet

FUJITSU Notebook LIFEBOOK E556

<u>Audio type</u>	On board
<u>Audio codec</u>	Realtek ALC255
<u>Audio features</u>	Stereo speakers

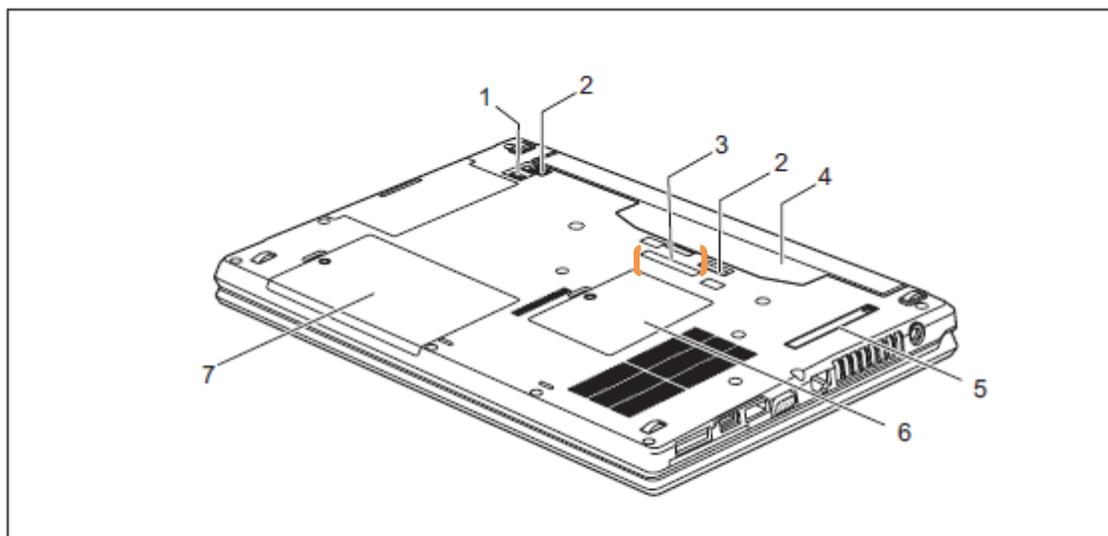
Interfaces	
DC-in	1
Audio: line-out / headphone	1
Audio: line-in / microphone	1
Internal microphones	2x digital microphones (array)
USB 3.0 total	3 (1 with Anytime USB Charge functionality)
VGA	1
DisplayPort	1
Serial (RJ-232)	1x (optional)
Ethernet (Rj-45)	1
Memory card slots	1 (SD up to 2GB, SDHC up to 32GB, SDXC up to 128GB)
SmartCard slot	1 (optional)
Port Replicator interfaces (optional)	
DC-in	1 (19V)
Power on switch	1
Audio: headphone	1
Audio: microphone	1
USB 3.0 total	4
DisplayPort	2 - 1 DP (next to DVI) is shared with DVI, works when DVI not connected
VGA	1
DVI	1 - shared with DP (next to DVI) - works when DP (next to DVI) not connected
Ethernet (RJ-45)	1 (10/100/1000)
Kensington Lock support	1 (1x port replicator)
eSATA	1

a docking-station connector means (shown in **orange** below) for connecting the portable PC to a docking station,

FUJITSU LIFEBOOK E546 FUJITSU LIFEBOOK E556

Operating Manual

Bottom



- | | |
|--|-----------------------------------|
| 1 = Module release | 5 = Ventilation slot cover |
| 2 = Battery release | 6 = Memory service compartment |
| 3 = Port replicator port | 7 = Hard disk service compartment |
| 4 = Battery compartment (SIM card under the battery) | |

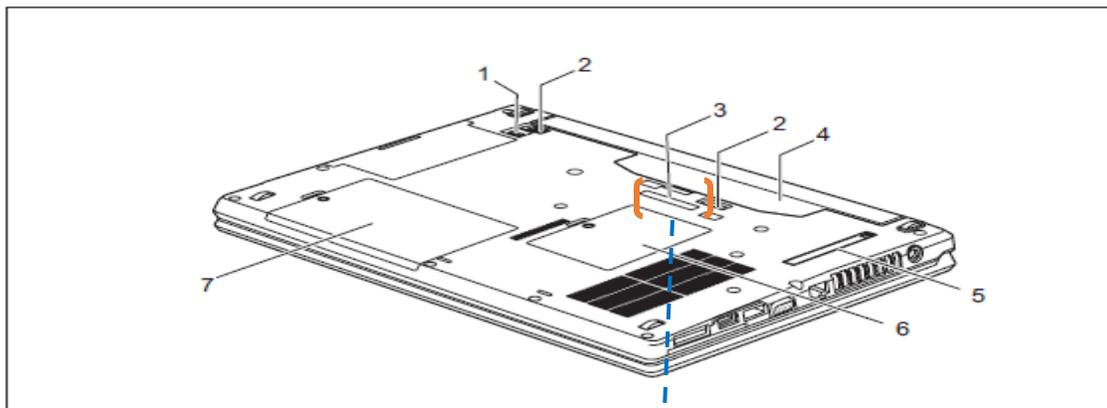
the docking-station connector means containing high-speed digital signals for communicating data, address, and control to a bus in the docking station (shown in [aqua](#) below), the bus for expanding functions performed by the portable PC when the portable PC is connected to the docking station through the docking-station connector means;



(HDMI ports immediately above are, at minimum, equivalent to the recited claim element.)

an external digital-audio link means (shown with dashed blue line below), using digital signals in the docking-station connector means, for sending the internal digital audio generated by the internal audio controller means to the docking station, and wherein digital-audio signals are sent over the external digital-audio link means through the docking-station connector means, whereby digital audio is generated inside the portable PC and transmitted as digital audio signals to the docking station:

Bottom



- 1 = Module release
- 2 = Battery release
- 3 = Port replicator port
- 4 = Battery compartment (SIM card under the battery)

- 5 = Ventilation slot cover
- 6 = Memory service compartment
- 7 = Hard disk service compartment



17. Plaintiff has been harmed by Defendants' infringing activities.

JURY DEMAND

Pursuant to Rule 38 of the Federal Rules of Civil Procedure, Plaintiff demands a trial by jury on all issues triable as such.

PRAYER FOR RELIEF

WHEREFORE, Plaintiff demands judgment for itself and against Defendants as follows:

- A. An adjudication that each Defendant has infringed the '148 patent;
- B. An award of damages to be paid by Defendants adequate to compensate Plaintiff for Defendants' past infringement of the '148 patent, and any continuing or future infringement through the date such judgment is entered, including interest, costs, expenses and an accounting of all infringing acts including, but not limited to, those acts not presented at trial;
- C. A declaration that this case is exceptional under 35 U.S.C. § 285, and an award of Plaintiff's reasonable attorneys' fees; and
- D. An award to Plaintiff of such further relief at law or in equity as the Court deems just and proper.

Dated: January 3, 2017

DEVLIN LAW FIRM LLC

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