

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

**PI-NET INTERNATIONAL, INC.,**

**Plaintiff,**

**v.**

**BARCLAYS BANK DELAWARE;  
BARCLAYS DELAWARE HOLDINGS LLC;  
and BARCLAYS BANK PLC**

**Defendant.**

**C.A. No. \_\_\_\_\_**

**JURY TRIAL DEMANDED**

**COMPLAINT FOR PATENT INFRINGEMENT**

Plaintiff Dr. Lakshmi Arunachalam hereby files this complaint for patent infringement against Barclays Bank Delaware; Barclays Delaware Holdings LLC; and Barclays Bank Plc and alleges upon information and belief as follows:

**PARTIES**

1. Plaintiff Pi-Net International, Inc. resides at 222 Stanford Avenue, Menlo Park, California 94025. Plaintiff has provided innovative software products, services and solutions that enable distributed transaction processing and control over public and private networks, including, without limitation, the Internet and the World-Wide Web through Pi-Net International, Inc. and other companies that she had founded.

2. The patents asserted here were issued to Dr. Arunachalam based on an application having a priority date of 1995. The patents disclose the fundamental technology underlying Web commerce and other online services over the Web by use of Web applications. The examples of

the pioneering technology in her patent were directed to online banking and other financial services on the Web which are the same as in the Defendants' accused systems.

3. Defendant Barclays Bank Delaware is a corporation organized under the laws of the State of Delaware with its principal place of business at 125 South West Street, Wilmington, Delaware 19801. Defendant resides in this judicial district and transacts business throughout the State of Delaware, including this judicial district. Furthermore, by incorporating in the State of Delaware, Defendant has availed itself of Delaware law.

4. Defendant Barclays Delaware Holdings LLC is a corporation organized under the laws of the State of Delaware with The Corporation Trust Company, Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801 as its registered agent. Defendant resides in this judicial district and transacts business throughout the State of Delaware, including this judicial district. Furthermore, by incorporating in the State of Delaware, Defendant has availed itself of Delaware law.

5. Defendant Barclays Bank LLC is a foreign corporation operating under the laws of the State of Delaware with The Corporation Trust Company, Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801 as its registered agent. Defendant resides in this judicial district and transacts business throughout the State of Delaware, including this judicial district. Furthermore, by incorporating in the State of Delaware, Defendant has availed itself of Delaware law.

6. The three Defendant entities are related, and shall hereafter be referred to collectively as "Barclays" or "Defendants."

#### **JURISDICTION AND VENUE**

7. This is an action for patent infringement arising under the patent laws of the United States, Title 35 of the United States Code. This Court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338(a).

8. This Court has personal jurisdiction over the Defendants by virtue of their incorporation in the State of Delaware, and their presence and business activities within this judicial district.

9. Venue is proper in this judicial district pursuant to 28 U.S.C. §§ 1391(b), 1391(c) and 1400(b).

### **BACKGROUND**

10. On November 16, 1999, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 5,987,500 (“the ’500 Patent”), entitled “Value-Added Network System For Enabling Real-Time, By-Directional Transactions On A Network,” to Dr. Lakshmi Arunachalam. Pi-Net is the assignee of all rights, title, and interest in the ’500 Patent, including the right to recover damages for past infringement. A copy of the ’500 Patent is attached to the Complaint as Exhibit A.

11. On January 31, 2012, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 8,108,492 (“’492 Patent”), entitled “Web Application Network Portal,” to Dr. Lakshmi Arunachalam. Pi-Net is the assignee of all rights, title, and interest in the ’492 Patent, including the right to recover damages for past infringement. A copy of the ’492 Patent is attached to the Complaint as Exhibit B.

12. On September 18, 2012, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 8,271,339 (“the ’339 Patent”), entitled “Method And Apparatus For Enabling Real-Time Bi-Directional Transactions On A Network,” to Dr. Lakshmi

Arunachalam. Plaintiff is the owner of all rights, title, and interest in the '339 Patent, including the right to recover damages for past infringement. A copy of the Patent is attached to the Complaint as Exhibit C.

13. Barclays provides online services via electronic means accessible through several websites, which include, but are not limited to the sites that can be originated from the following website: <https://www.banking.barclaysus.com>; <https://www.barclaycardus.com>; <https://www.barclayswealth.com>; <https://www.barclayswealthtrusteesus.com> (provided by Defendant Barclays Bank Plc; and the many websites the nameplates on the Barclay credit cards. These sites can be accessed from stationary personal computers or from mobile devices such as laptop computers, smartphones and tablets. Upon accessing these sites, Defendants' clients or customers have been able, for example, to open accounts, make transfers; pay and manage bills online on the banking website; and pay bills, check balances, manage reward points, and directly or indirectly redeem reward points. Through Barclays Mobile Banking, the customers or clients can access their accounts, make deposits, transfer funds, pay bills and locate ATMs. With the Barclays' credit card mobile apps for iPhone and Android, clients or customers can, *inter alia*, manage their accounts, pay their bills, check balances and account activity, and keep track of rewards. (Barclays credit cards include Aer Lingus Rewards MasterCard; AirTran Airways A+ Visa Signature; BankAtlantic MasterCard; Barclaycard Financing Visa; Barclaycard Rewards MasterCard; Barclaycard with iTunes Rewards Visa; Barnes & Noble MasterCard; Best Western Rewards MasterCard; BJ's Visa Card; Bluegreen Encore Rewards MasterCard; Carnival MasterCard; China Airlines MasterCard; Choice Privileges Visa; Coast to Coast Visa; DirectTV Rewards Visa; Extra Points Rewards MasterCard (all teams); Frontier Airlines MasterCard; Good Sam Visa; Gulf Platinum MasterCard; Harvard Alumni Association MasterCard; Holland

America Line Rewards Visa; Icelandair MasterCard; Juniper MasterCard; Juniper Visa; L.L. Bean Visa; Lufthansa Miles & More MasterCard; Market America Platinum MasterCard; NFL Extra Points Rewards Visa (all teams); Oregon Community Credit Union MasterCard; Priceline Rewards Visa; Princess Cruises Rewards Visa; REC REWARDS Visa; RecycleBank Gconomy Visa; Travelocity Rewards American Express; US Airways Dividend Miles MasterCard; Virgin America Visa; Visa Black Card; Williams-Sonoma Visa; Wyndham Rewards Visa.). Further services are available at <https://www.barclayswealth.com>, and [www.barclayswealthtrusteesus.com](http://www.barclayswealthtrusteesus.com).

14. Defendants provide the above and other services by way of a computer-implemented method for delivering Point-of-Service applications to a multi-media device over the World Wide Web, where the method comprises:

providing a Web server in communication with a Web merchant's on-line Web application and a database;

communicating a Web page for display on a multi-media device, where the Web page comprises a graphical user interface configured to generate a list of multiple Point-of-Service applications which may be accessed by the user over the Web and to accept user input;

allowing the user to select an on-line Point-of-Service application displayed on the Web page on the multi-media device;

instructing a Web server to hand over a request by the user to access the Web merchant's on-line service Web application available through the Point-of-Service application, said Web merchant's on-line service Web application available over the Web and in communication with the Web merchant's database;

maintaining an open connection over the Web until the user's transaction with the on-line Web application is complete;

delivering said particular Point-of-Service application in real-time to the multi-media device across a service network over the Web; and

performing a real-time non-deferred bidirectional Web transaction requested by the user, where the Point-of-Service application is a banking application that operates to connect to a financial institution over the Web.

15. Defendants provide the cited services and practice the above methods by making and using a Web application on line service network portal which is offered to the public for delivering Web applications to a multi-media device, where the portal comprises a non-transitory computer storage device having stored thereon executable instructions that, when executed by one or more processors of a computer system, implement a method for:

delivering a Point-of-Service application interface on a Web page by the Web merchant to expose to an online services offered by the Web merchant as a Web application, said Web application including at least one object comprising information entries and attributes, wherein the object exposes one or more objects of a line of Web applications to the user;

providing said Point-of-Service application interface to allow a user to access the Web application from the Web application on-line service network portal offered by the Web merchant, delivering Web applications to the multi-media device;

connecting to the Web application on-line service, allowing the Web application on-line service client user access to the Web application on-line service; and

maintaining the connection open until the Web application on-line service client user's real-time Web transaction with the Web application on-line service is complete so that the user may perform a real-time, non-deferred, bidirectional transaction on the Web.

**COUNT I**  
(Infringement of the '500 Patent)

16. Pi-Net incorporates and realleges paragraphs 1- 15.

17. Defendants have directly infringed and is continuing to infringe one or more claims of the '500 Patent by operating without authority one or more online and mobile systems providing Services which utilize POSvc Applications on a Web Page, where such POSvc Applications incorporate an object with attributes and information entries, wherein the resulting networked object identity is routed to the Defendants' services, and wherein the online and mobile systems provide a means for switching to a plurality of transactional applications in response to a user specification from one of several network applications on one of the website's webpages, with the transactional applications providing a plurality of transactional interactive real time services managed by Defendants to the user, while Defendants keeps the transaction flow captive, and including a means for transmitting a transaction request from the transactional application; and means for processing the transaction request, and (ii) utilized and is utilizing computer equipment, including, without limitation, computer equipment that stores, serves, and/or runs the foregoing.

18. Defendants' online practices of the patented inventions are reflected in, but not limited to, the websites describe above. Defendants' servers providing the claimed methods and reflecting the claimed apparatus are located in the United States under Defendants' control.

19. Defendants' infringement has injured Plaintiff. Accordingly, Plaintiff is entitled to recover damages adequate to compensate it for such infringement, but in no event less than a

reasonable royalty, and an injunction to prohibit further infringement of the '500 Patent or future compensation for use of the inventions.

**COUNT II**  
(Infringement of the '492 Patent)

20. Pi-Net incorporates and realleges paragraphs 1- 15.

21. Defendants have directly infringed and is continuing to infringe one or more claims of the '492 Patent by operating without authority one or more online and mobile systems providing Services which utilize POSvc Applications on a Web Page, where such POSvc Applications incorporate an object with attributes and information entries, wherein the resulting networked object identity is routed to the Defendants' services, and wherein the online and mobile systems provide a Web server, including a processor and a memory, for offering one or more Web applications as respective POSvc Applications in a point-of-service application list on a Web page; each POSvc Application of the one or more POSvc Applications for requesting a real-time Web transaction; a value-added network (VAN) switch running on top of a facilities network selected from a group consisting of the World Wide Web, the Internet and an e-mail network, the VAN switch for enabling the real-time Web transactions from the one or more Web applications; a service network running on top of the facilities network for connecting through the Web server to a back-end transactional application; and a computer system executing the Back-end transactional application for processing the transaction request in real-time, and (ii) utilized and is utilizing computer equipment, including, without limitation, computer equipment that stores, serves, and/or runs the foregoing.

22. Defendants' online practices of the patented inventions are reflected in the website identified above. Defendants' servers providing the claimed methods and reflecting the claimed apparatus are located in the United States under Defendants' control.

23. Defendants' infringement has injured Plaintiff. Accordingly, Plaintiff is entitled to recover damages adequate to compensate it for such infringement, but in no event less than a reasonable royalty, and an injunction to prohibit further infringement of the '492 Patent or future compensation for use of the inventions.

**COUNT III**  
(Infringement of the '339 Patent)

24. Plaintiff incorporates and realleges paragraphs 1- 15.

25. Defendants directly infringed and is continuing to infringe at least claims 5 and 12 of the '339 Patent by practicing without authority the method of claim 5, and by making and using without authority the computer storage device of the Web application on line service network portal of claim 12 maintained on servers located in and/or accessible from the United States under Defendants' control.

26. Defendants' infringement has injured Plaintiff. Accordingly, Plaintiff is entitled to recover damages adequate to compensate her for such infringement, but in no event less than a reasonable royalty, and an injunction to prohibit further infringement of the '339 Patent or future compensation for use of the inventions.

**PRAYER FOR RELIEF**

WHEREFORE, Plaintiff asks this Court to enter judgment against Barclays and against Barclays's subsidiaries, affiliates, agents, servants, employees and all persons in active concert or participation with them, granting the following relief:

A. An award of damages adequate to compensate Plaintiff for the infringement that has occurred, together with prejudgment interest from the date infringement of the '500, '492 and '339 Patents began;

B. An award to Plaintiff of all remedies available under 35 U.S.C. § 284;

- C. An award to Plaintiff of all remedies available under 35 U.S.C. § 285;
- D. A permanent injunction under 35 U.S.C. § 283 prohibiting further infringement of the ‘500, ‘492 and ‘339 Patents, and, in the alternative, in the event injunctive relief is not granted as requested by Plaintiff, an award of a compulsory future royalty; and
- E. Such other and further relief as this Court or a jury may deem proper and just.

**JURY DEMAND**

Plaintiff demands a trial by jury on all issues so triable.

/s/ George Pazuniak  
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