

**IN THE UNITED STATES DISTRICT COURT  
FOR THE EASTERN DISTRICT OF MISSOURI**

BRILLIANT OPTICAL SOLUTIONS LLC )  
 )  
 *Plaintiff,* )  
 )  
 v. )  
 )  
 )  
 )  
 XO HOLDINGS, INC., XO COMMUNICATIONS, LLC )  
 AND XO COMMUNICATIONS SERVICES, LLC )  
 )  
 *Defendants.* )  
 )  
 \_\_\_\_\_ )

Case No. TBD

***JURY TRIAL DEMANDED***

**COMPLAINT**

Plaintiff Brilliant Optical Solutions LLC (“BOS”) files this Complaint for infringement of U.S. Patent No. 5,555,478 under 35 U.S.C. § 271 against defendants XO Holdings, Inc., XO Communications, LLC, and XO Communications Services, LLC (“Defendants”). Plaintiff seeks damages and injunctive relief.

Plaintiff alleges as follows:

**PARTIES**

1. Plaintiff Brilliant Optical Solutions LLC is a Texas company organized under the laws of the State of Texas. BOS maintains its principal place of business at 1701 Directors Blvd., Suite 300, Austin, Texas 78744.

2. Upon information and belief, Defendant XO Holdings, Inc. is a corporation organized under the laws of the state of Delaware having its principal place of business at 13865 Sunrise Valley Dr., Herndon, Virginia 20171.

3. Upon information and belief, Defendant XO Communications, LLC is a limited liability company organized under the laws of the state of Delaware having its principal place of business at 13865 Sunrise Valley Dr., Herndon, Virginia 20171.

4. Upon information and belief, Defendant XO Communications Services, LLC is a limited liability company organized under the laws of the state of Delaware having its principal place of business at 13865 Sunrise Valley Dr., Herndon, Virginia 20171.

5. Upon information and belief, Defendants are authorized to and do conduct business within the state of Missouri and this jurisdiction, throughout the United States, and within the Eastern District of Missouri, either themselves or through one or more subsidiaries, affiliates, business divisions, or business units. In addition, St. Louis, Missouri is designated as one or more of Defendants' "Metro IP Nodes," and, upon information and belief, XO Communications, LLC has an office location at 2020 Westport Center Dr., St. Louis, Missouri 63146.

#### **JURISDICTION AND VENUE**

6. This is an action for patent infringement arising under the Patent Laws of the United States, 35 U.S.C. § 1 *et seq.*, alleging infringement of United States Patent No. 5,555,478 (the "'478 patent"). A copy of the '478 patent is attached hereto as **Exhibit A** and is incorporated herein by reference in its entirety.

7. The Court has exclusive subject matter jurisdiction over this action under 28 U.S.C. §§ 1331 and 1338(a).

8. This Court has personal jurisdiction over Defendants because Defendants have conducted business in this district and upon information and belief has infringed, contributed to infringement of and/or actively induced others to infringe the '478 patent in this district as

alleged in this Complaint. Finally, XO Communications, LLC has an office in this district as described in paragraph 2.

9. Venue is proper under 28 U.S.C. §§ 1391(b), 1391(c), and/or 1400(b).

#### **PATENT-IN-SUIT**

10. The '478 patent entitled "Fiber Optic Information Transmission System" was duly and legally issued posthumously to inventor Joseph Zelikovitz on September 10, 1996. **Exhibit A.**

11. Before he passed away, Joseph Zelikovitz recognized a problem with the conventional means of information transmission and with bridging standard copper communication lines with the developing optic lines.

12. He dedicated himself to opening up the "bottlenecks" that occurred when information was transmitted by the understood methods of the time. He envisioned a system with fibers connected end-to-end, but with intelligent routing along the way.

13. He invented a packet-based fiber-optic network, and an application for his invention was filed on June 7, 1995. As stated above, the patent issued on September 10, 1996.

14. All right, title and interest to the '478 Patent was initially assigned from his estate to his widow, Mrs. Melba Zelikovitz. **Exhibit B.**

15. In order to enforce her husband's patent, she assigned right, title and interest to the '478 Patent to Red River Fiber-Optic Corporation. **Exhibit B.**

16. The '478 Patent is battle-tested.

17. On October 4, 2001, Red River Fiber-Optic Corporation filed suit against Defendant Level 3 Communications, Inc. alleging patent infringement. *Red River Fiber Optic*

*Corp., Inc. v. Level 3 Comm'ns, Inc.*, Case No. 2:01-cv-00208-TJW, Docket No. 1 (E.D. Tex. Oct. 4, 2001) (**Exhibit C**).

18. On October 4, 2002, a third party requested reexamination of the '478 Patent.

**Exhibit D.**

19. The parties settled the suit before the patent emerged from reexamination, but on June 19, 2007 the patent reissued with only minor changes and all its claims intact. **Exhibit A.**

20. On May 19, 2008, Red River filed suit against Verizon Communications, Inc., AT&T Corp., and Quest Communications International Inc. for infringement of the '478 patent. *Red River Fiber Optic Corp. v. Verizon Comm'ns, Inc., et al.*, Case No.2:08-cv-00215-TJW-CE, Docket No. 1 (E.D. Tex. May 19, 2008). This action settled.

21. On February 5, 2013, Red River assigned the '478 patent to Acacia Research Group, Inc. ("Acacia"). **Exhibit E.** Acacia is a company that partners with individual inventors and small companies with limited resources to contend with large, unauthorized infringers. The patent was then assigned to BOS, a subsidiary of Acacia, on February 13, 2013. **Exhibit F.**

22. It has recently come to BOS's attention that Defendants infringe the '478 patent.

23. For example, claim 1 of the '478 patent provides:

1. A fiber optic transmission system comprising:

a plurality of fiber optic lines, subscriber locations, intelligent communication platforms, and at least one intelligent routing card;

a first source of data at a first subscriber location;

a first data processor line card at said first subscriber location capable of forming a plurality of data transmission packets with data, header and tail information;

a first intelligent communication platform coupled to said first data processor line card by fiber optic lines wherein said first intelligent communication platform is capable of receiving any one of said transmission packets, determining the appropriate route for said one transmission packet and is capable of shunting said one transmission packet onto the appropriate fiber optic line to a first intelligent line module;

a first intelligent routing card at the junction of at least two fiber optic lines and coupled to said first intelligent line module wherein said first intelligent routing card is capable of receiving any one of said transmission packets, determining the appropriate route for said one transmission packet and shunting said one transmission packet onto the appropriate fiber optic line to or away from said first intelligent line module; and

a second data processor line card at a second subscriber location coupled to said first intelligent routing card capable of receiving said transmission packet and decoding the data within said packet.

**Exhibit A**, '478 patent, col. 12, ln 45 to col. 13, ln 6.

### **INFRINGEMENT GOODS/SERVICES**

24. The '478 Patent discloses a fiber optic network that includes fiber optic lines operating in conjunction with shunting and routing devices that divert information through a network to the intended subscriber.

25. Upon information and belief, Defendants own, operate, maintain, sell, offer for sale, make, and use a fiber optic transmission system as described in the claims of the '478 Patent.

26. Specifically, Defendants advertise that they're capable of providing a complete system to transport data (including internet, voice, and video) from the source of that data (e.g., a subscriber location such as a residence or business) to the destination of the data (e.g., another subscriber location) using fiber optic lines end-to-end (The "XO System"). Besides owning, operating, maintaining, selling, offering for sale, making, and using the XO System, Defendants induce the use of the XO System by residential, business, governmental, and enterprise subscribers. **Exhibit G** (available at <http://www.xo.com/about/network/Pages/details.aspx> and [http://www.xo.com/SiteCollectionDocuments/business-services/data-and-internet-services/dedicated-internet-access/DIA\\_PS.pdf](http://www.xo.com/SiteCollectionDocuments/business-services/data-and-internet-services/dedicated-internet-access/DIA_PS.pdf)).

## COUNT I

### **DEFENDANTS' PATENT INFRINGEMENT** **UNDER 35 U.S.C. 271 OF THE '478 PATENT**

27. BOS incorporates by reference the allegations of paragraphs 1-26.

28. The '478 patent was duly and legally issued by the United States Patent and Trademark Office on September 10, 1996, after full and fair examination. An *ex parte* reexamination certificate issued on June 19, 2007.

29. Plaintiff is the assignee of all rights, title, and interest in and to the '478 patent and possesses all rights of recovery under the '478 patent.

30. Defendants have directly infringed the '478 patent at a minimum by making, using, offering to sell, and selling within the United States products and services that practice the inventions of the '478 patent, namely products/services affiliated with at least the XO System, and these products/services have no substantial non-infringing uses.

31. Defendants have contributorily infringed the '478 patent and induced infringement of the '478 patent after the filing of the complaint.

32. Defendants were aware of the '478 patent *at a minimum* after the filing of this complaint.

33. Despite knowledge of the patent and its infringement and, upon belief, Defendants continue to operate the XO System.

34. In addition and upon belief, Defendants encourage their customers to operate the XO System in an infringing manner.

35. Defendants have caused and will continue to cause BOS substantial damage and irreparable injury by virtue of the continuing infringement.

36. BOS is entitled to recover from Defendants the damages sustained by BOS as a result of Defendants' acts in an amount subject to proof at trial and an injunction preventing Defendants from continuing their acts.

37. Upon information and belief and after an opportunity for further discovery, Defendants' infringement of the '478 patent is willful and deliberate.

#### **PRAYER FOR RELIEF**

WHEREFORE, Brilliant Optical Solutions respectfully requests that the Court enter a judgment as follows:

- A. A judgment that Defendants have directly infringed the '478 patent, contributorily infringed the '478 patent, and induced infringement of the '478 patent;
- B. An injunction preventing Defendants and their officers, directors, agents, servants, employees, attorneys, licensees, successors, and assigns, and those in active concert or participation with Defendants, from directly infringing, contributorily infringing, and inducing the infringement of the '478 patent;

- C. A judgment and order requiring Defendants to pay Plaintiff damages under 35 U.S.C. § 284, including supplemental damages for any continuing post-verdict infringement up until entry of the final judgment, with an accounting, as needed, and treble damages for willful infringement as provided by 35 U.S.C. § 284;
- D. A judgment and order requiring Defendants to pay Plaintiff pre-judgment and post-judgment interest on the damages awarded;
- E. A judgment and order requiring Defendants to pay Plaintiff the costs of this action (including all disbursements) and attorneys' fees as provided by 35 U.S.C. § 285; and
- F. Such other and further relief as the Court deems just and equitable.

**DEMAND FOR JURY TRIAL**

Plaintiff hereby requests that all issues be determined by jury.

Respectfully submitted,  
PLAINTIFF BRILLIANT OPTICAL SOLUTIONS, LLC

By its attorneys,  
SIMMONS BROWDER GIANARIS  
ANGELIDES & BARNERD LLC

Dated: April 2, 2013.

By: /s/ Paul A. Lesko  
Paul A. Lesko – E.D. Mo. 51914MO  
Sarah S. Burns – E.D. Mo. 56554MO  
Jo Anna Pollock – E.D. Mo. 50430MO  
One Court Street  
Alton, IL 62002  
(618) 259-2222  
(618) 259-2251-*facsimile*  
plesko@simmonsfirm.com  
sburns@simmonsfirm.com  
jpollock@simmonsfirm.com