

*Inter Partes Review of USPN 7,145,710*  
*Declaration of Timothy J. Drabik, Ph.D. (Exhibit 1007)*

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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FUJITSU NETWORK COMMUNICATIONS, INC.

Petitioner

v.

THOMAS SWAN & CO. LTD.

Patent Owner

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*Inter Partes* Review Case No. Unassigned  
Patent 7,145,710

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**DECLARATION OF TIMOTHY J. DRABIK, Ph.D.**

(Submitted with Petition for *Inter Partes* Review of  
U.S. Patent No. 7,145,710)

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Patent Trial and Appeal Board

U.S. Patent and Trademark Office

P.O. Box 1450

Alexandria, VA 22313-1450

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I, Timothy J. Drabik, hereby declare as follows:

**I. INTRODUCTION**

**A. Background**

1. My name is Timothy J. Drabik. I am a researcher and consultant working in areas related to optics, telecommunications, display technologies, and microelectronics. I undertake consulting through my company, Page Mill Technology Corporation, and also work to develop commercial technologies for information display and optical telecommunications.

2. I have been retained as an expert witness on behalf of Fujitsu Network Communications, INC. (“FNC”) in connection with the above captioned Petition for *Inter Partes* Review of U.S. Patent No. 7,145,710 (“Petition”). I understand that this proceeding involves U.S. Patent No. 7,145,710 (“the ’710 patent”), titled “Optical Processing.” The ’710 patent is provided as Exhibit 1001.

3. I understand that Petitioner challenges in its Petition the validity of Claims 1, 3, 10, 11 and 13 of the ’710 patent (the “challenged claims”).

4. I have reviewed and am familiar with the ’710 patent as well as its prosecution history. The ’710 prosecution history is provided as Exhibit 1002. Additionally, I have reviewed materials identified in Section III.

5. As set forth below, I am familiar with the technology at issue as of both the Sep. 10, 2004 filing date of the application which led to the ’710 patent,

and the Sep. 3, 2001 priority date corresponding to the filing of the parent UK Patent Application No. 0121308.1. I have been asked to provide my technical review, analysis, insights, and opinions regarding the prior art references that form the basis for the Petition. In forming my opinions, I have relied on my own experience and knowledge, my review of the '710 patent and its file history, and of the prior art references cited in the Petition.

6. My opinions expressed in this Declaration rely to a great extent on my own personal knowledge and recollection. However, to the extent I considered specific documents or data in formulating the opinions expressed in this Declaration, such items are expressly referred to in this Declaration.

7. I am being compensated for my time in connection with this IPR at my standard consulting rate, which is \$500 per hour.

## **B. Qualifications**

### **1. Education**

8. I received my Ph.D. in Electrical Engineering from the Georgia Institute of Technology in 1990, where I also received a M.S. degree in Electrical Engineering in 1982. I received Bachelor's degrees in Electrical Engineering and in Mathematics from Rose-Hulman Institute of Technology in 1981; I also received certification in technical translation of German to English.

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