

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
PATENT TRIAL AND APPEAL BOARD

*Inter Partes* Review of U.S. Patent No. 8,309,943 Smith *et al.*; Issued: Nov. 13, 2012  
*Inter Partes* Review of U.S. Patent No. 7,435,982 Smith; Issued: Oct. 14, 2008  
*Inter Partes* Review of U.S. Patent No. 7,786,455 Smith; Issued: Aug. 31, 2010  
*Inter Partes* Review of U.S. Patent No. 8,525,138 Smith *et al.*; Issued: Sep. 3, 2013  
*Inter Partes* Review of U.S. Patent No. 8,969,841 Smith; Issued: Mar. 3, 2015  
*Inter Partes* Review of U.S. Patent No. 9,048,000 Smith; Issued: June 2, 2015

Mail Stop PATENT BOARD  
Patent Trial and Appeal Board  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**POWER OF ATTORNEY**

Dear Sir/Madam:

The undersigned hereby appoints the following attorneys and/or agents to prosecute the above captioned *Inter Partes* Reviews and transact all business in the U.S. Patent and Trademark Office connected herewith:

All practitioners at Customer Number 23483.

Address all communications to:

WILMER CUTLER PICKERING HALE AND DORR LLP  
60 State Street  
Boston, MA 02109  
(617) 526-6000

Address all e-mails and telephone calls to lead and back-up counsel (each associated with the above Customer Number), listed below:

Patent Nos.: 8,309,943; 7,435,982; 7,786,455;  
8,525,138; 8,969,841; and 9,048,000

Docket No.: 0107945-00235

Donald R. Steinberg (Lead Counsel, PTO Reg. No. 37,241)  
[Don.Steinberg@wilmerhale.com](mailto:Don.Steinberg@wilmerhale.com)  
Direct: 617-526-6453

WILMER CUTLER PICKERING HALE AND DORR LLP  
60 State Street  
Boston, MA 02109

David L. Cavanaugh (Backup Counsel, PTO Reg. No. 36,476)  
[David.Cavanaugh@wilmerhale.com](mailto:David.Cavanaugh@wilmerhale.com)  
Direct: 202-663-6025

Michael H. Smith (Backup Counsel, PTO Reg. No. 71,190)  
[MichaelH.Smith@wilmerhale.com](mailto:MichaelH.Smith@wilmerhale.com)  
Direct: 202-663-6055

WILMER CUTLER PICKERING HALE AND DORR LLP  
1875 Pennsylvania Ave, NW  
Washington, DC 20006

For: Qiontiq Photonics GmbH & Co. KG

Name:

B. Lorenz

Dated:

Nov 03, 2015

Title:

Managing Director