IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of: Al-Ali et al.

U.S. Patent No.: 7,761,127 Attorney Docket No.: 50095-00046IP2

Issue Date: July 20, 2010 Appl. Serial No.: 11/366,209 Filing Date: March 1, 2006

Title: MULTIPLE WAVELENGTH SENSOR SUBSTRATE

DECLARATION OF BRIAN W. ANTHONY, Ph.D.

(Dietiker Grounds)



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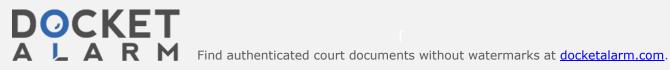
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- I, Brian W. Anthony, of Cambridge, MA, declare that:
- 1. My name is Dr. Brian W. Anthony. I am an Associate Principal Research Scientist at the Institute of Medical Engineering & Science at Massachusetts Institute of Technology (MIT). I am also a Principal Research Scientist at MIT's Mechanical Engineering department, Director of the Master of Engineering in Advanced Manufacturing and Design Program at MIT, Director of Health Technology at the MIT Center for Clinical and Translational Research, a Co-Director of the Medical Electronic Device Realization Center of the Institute of Medical Engineering & Science, and Associate Director of MIT.nano. My current curriculum vitae is attached and some highlights follow.
- 2. I earned my B.S. in Engineering (1994) from Carnegie Mellon University. I earned my M.S. (1998) and Ph.D. (2006) in Engineering from MIT. My research focused on high-performance computation, signal processing, and electro-mechanical system design.
- 3. In 1997, I co-founded Xcitex Inc., a company that specialized in video-acquisition and motion-analysis software. I served as the Chief Technology Officer and directed and managed product development until 2006. Our first demo product was an optical ring for human motion measurement used to capture user hand motion in order to control the user's interaction with a computer. Many of the structural elements of our optical ring addressed the same system issues as



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