

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

UNITED LABORATORIES INTERNATIONAL, LLC,
Petitioner,

v.

REFINED TECHNOLOGIES, INC.,
Patent Owner.

Patent No. 9,017,488

DECLARATION OF BENJAMIN A. WILHITE, Ph.D.

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I, Benjamin A. Wilhite, pursuant to 28 U.S.C. § 1746, declare under penalty of perjury that the following statements are true and correct:

I. QUALIFICATIONS AND PROFESSIONAL EXPERIENCE

1. I have been retained in this matter by United Laboratories International, Inc. (“ULI”) to provide various opinions regarding U.S. Patent No. 9,017,488. I am being compensated at my rate of \$400 per hour, plus expenses, which is my standard consulting fee, for my work in this matter. My compensation is not dependent upon the outcome of this matter. Nor is my compensation dependent upon the outcome of any related litigation proceedings, the opinions I express, or my testimony. I have no financial interests in ULI.

2. My qualifications are set forth in my curriculum vitae, a copy of which is included as Exhibit 1008. I have never previously signed a protective order or testified as an expert either at trial, hearing, or deposition, and I have never previously submitted statements and/or opinions. Therefore, I have no list of cases during at least the last five years in which I have signed a protective order; have testified as an expert either at trial, hearing, or deposition; or have submitted statements and/or opinions.

3. I attended The University of Delaware from 1993 to 1994, and then transferred to North Carolina State University, where I attended from 1994 to 1997 and received a bachelor’s degree in Chemical Engineering. I then attended the

University of Notre Dame from 1997 to 2003, during which time I received a Ph.D. in Chemical Engineering. My dissertation was entitled “Pulsing Flow Regime in Trickle-Bed Reactors: Reactor Performance and Hydrodynamics,” and focused on Chemical Reaction Engineering and Process Systems. From 2002 to 2005, I was employed as a post-doctoral research associate at the Massachusetts Institute of Technology (MIT) where my work focused upon design, testing, and analysis of microchemical systems. One of the projects I worked on was the demonstration of a miniature, silicon-based gas-liquid contactor for reacting alkaline hydrogen peroxide liquid with chlorine gas for the production of singlet-delta oxygen as an energy-exchange media.

4. From June to August 1995, I was employed as a summer intern with the DuPont Chemical Company at their Pisgah Forest, NC Medical Imaging Production Facility (now defunct) in the safety division, responsible for assisting with annual fire safety compliance inspections. I was an assistant professor at the University of Connecticut from 2005 to 2010. During that time, as a faculty member of the Connecticut Global Fuel Cell Center, my work focused upon gas-solid catalytic reactor design for hydrogen production, gas-solid membranes for hydrogen purification, and gas-solid electrochemical systems for direct fuel conversion to electricity. Also, I have performed and directed research work funded by Eastman

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