

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of: Byron Hourmand
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Title: CAPACITIVE RESPONSIVE ELECTRONIC SWITCHING
CIRCUIT

DECLARATION OF DR. PHILLIP D. WRIGHT

1. My name is Dr. Phillip Wright. I am a Managing Director and Chief Analyst at WRT Associates. My current *curriculum vitae* is attached and some highlights follow.

2. I received a Bachelor of Science in Engineering from Purdue University in 1972. I received a Master of Science in Electrical Engineering from the University of Illinois at Urbana Champaign in 1975. I received a Ph.D in Electrical Engineering from the University of Illinois at Urbana Champaign, IL in 1977.

3. Since completing my graduate studies, I have worked at Fortune 500 and start-up companies on semiconductor, electronic, optical, information display and optoelectronic technology development. I have contributed to several industries including communications, consumer electronics, mobile handsets, displays, engineering services and defense electronics.

4. As a manager, I have led project teams that were granted more than 50 issued U.S. patents and related foreign filings. I have contributed as an inventor to 16 issued U.S. patents.

5. From 1977 to 1979, I was an engineer at Varian Associates, a Palo Alto, CA based company that developed, manufactured and sold semiconductor devices, high vacuum material processing equipment, semiconductor processing equipment, and medical diagnostic equipment among other products. My significant projects included research on crystal growth of semiconductor materials for light emitting diodes (LEDs) and semiconductor lasers.

6. From 1979-1984, I held positions as a member of technical staff and supervisor at Bell Telephone Laboratories, a Murray Hill, NJ company that was the research arm of the Bell System and the American Telephone and Telegraph Company (AT&T). In 1984, I was a district research manager of the newly formed Bell Communications Research (Bellcore). My significant projects included research and development of laser designs and fabrication processes for high reliability semiconductor lasers used in the first transatlantic optical communication system.

7. From 1984-1987, I was a founder and manager of Lytel Incorporated, a Branchburg, NJ firm that developed, manufactured and sold optoelectronic devices and modules for optical communications systems.

8. From 1987-1990, I was a manager at Ford Microelectronics, Inc., a Colorado Springs, CO company that designed electronic engine controllers for the parent Ford Motor Company and conducted independent research and development on behalf of Ford Aerospace Corporation. My significant projects included development of integrated circuit (IC) technology with performance at frequencies up to 80 GHz and analysis of the influence of transistor design parameters on device performance resulting in improved understanding and achievement of device performance at frequencies greater than 100 GHz.

9. From 1990-1993, I was the founder, president, and general manager at Martin Kestrel Company, Inc., a Colorado Springs, CO company providing device oriented semiconductor material evaluation services to the global epitaxial semiconductor material industry.

10. From 1993-1998, I was a manager at Motorola in Tempe, AZ. I helped establish the Displays Division of the Consumers Systems Group. The Displays Division was formed to market and manufacture low power, high information content displays for portable products such as mobile phone handsets and digital cameras. While at Motorola, I led technology development for a new display business based on miniature light emitting diode array displays, and liquid crystal displays on silicon, combined with magnifying injection molded plastic optics yielding a low cost, low power, high information content display for

portable products. I established an optical design group for lens and optomechanical system design, and managed an interdisciplinary team of engineers and scientists with expertise in optics, optoelectronics, electronic system design, display technology, display human factors, and portable product user-interface design. I managed product and technology development, evaluated technology alternatives and business alliances, and partnered with customers and suppliers to bring the Motorola VirtuoVue™ display to market. I engaged in an early customer partnership with Gemplus (La Ciotat, France) that delivered the SmartVue card reader and won an Innovation Award at the international smart card exhibit. I established a business alliance with Kopin Corporation to manufacture and market low cost color display products. I identified and engaged with a wide range of critical display customers and product definers including Microsoft, Philips, Nextel, AT&T, Telcordia, DARPA, and the Motorola equipment divisions. I established key vendor relationships and negotiated supply agreements for injection molded plastic diffractive optics with Kodak, Polaroid, and Donnelly Corporation. I initiated a program for display applications research and rapid prototyping. This effort delivered several new product prototypes including wireless email and internet browsers, cell phones with color graphical user interfaces, and a visual communicator mobile handset integrating a digital cell

phone with a color display, and a color CMOS VGA resolution digital camera system for wireless image transfer using packet data services.

11. In 1999, I was director, development engineering at AMP Incorporated in Harrisburg, PA, which was acquired that year by Tyco Electronics. At AMP, I managed a staff of 30 engineers and technicians at two locations responsible for product development of optoelectronic components, packaging, and transceivers for optical data communications.

12. From 2000-2001, I was project director, Corning Inc., Corning, NY. At Corning, I directed a fast track optical switch project with an annual operating budget of \$140 million working with geographically dispersed project teams at six locations in the US and Europe.

13. Beginning in 2002, I commenced work as an independent consultant. My significant consulting engagements involved business development and commercialization of new products such as printed wiring boards with embedded optical waveguides, and business development for a company establishing a new high technology facility in the United Kingdom to provide leased manufacturing facilities and new business incubation. I also provided market research and international outreach services for the Optoelectronics Industry Development Association (OIDA).

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