Robert E. Grove, Ph.D.

Education: Ph.D. in Instrumentation (Field of laser applications); MIT, 1975.

M.S. in Aeronautics and Astronautics; MIT, 1971.

B.S. With Distinction in Engineering Physics; Cornell University, 1970. Graduated as

salutatorian of entire engineering class (EP, EE, ME, ChemE, IndusE).

Post-graduate training:

Post-doctoral associate, Research laboratory of Prof. Shaoul Ezekiel; MIT, 1976.

Employment Experience:

ON Light Sciences, Inc. (2013 – 2016)

Executive Chairman

Directed start-up developing transparent gel patches for accelerated tattoo removal with short-pulse lasers. Raised seed-round funding and recruited world-renowned dermatologists for clinical trials. Acquired by Merz North America in August of 2016.

Intellectual Light, Inc. (2012-2017)

President and CEO

Founded start-up to develop and patent a novel low-cost laser diode source for OTC devices for medical and other applications, with emphasis on patent portfolio.

Once Again Me, Inc. (2011)

President and CEO

Founded start-up, raised \$300k in seed capital, developed an innovative OTC laser beauty device and associated patent applications. Acquired by TRIA Beauty, Inc. in Dec. 2011.

TRIA Beauty Inc. (2003 – 2010)

CEO ('03-'08); CTO ('09-'10)

Co-founded start-up to develop, manufacture and market consumer laser devices for permanent hair removal, acne and facial wrinkle treatment at home. Raised \sim \$80 million in venture capital, grew worldwide sales to \sim \$20M while CEO.

Coherent Star, Inc. (1999 – 2001)

President

Expanded *LightSheer*TM business as part of Coherent Medical. Managed over 100 employees with revenues in excess of \$50 million.

Star Medical Technologies, Inc. (1993 – 1999)

President and CEO

Co-founded start-up to develop, manufacture and market the first successful Rx laser hair removal system (*LightSheer*TM) that remains the gold standard today. Negotiated acquisition by Coherent in 1999 for \$65 million.

DermaCare, Inc. (1987 – 1990)

President and CEO

Co-founded one of the first laser med-spas in the US; raised \$2.5 million in domestic and foreign investment. Directed operation of two clinics in S. CA with over 400 pts/month.

Cooper LaserSonics, Inc. (1984–1987)

President, Laser Products Division

Integrated copper lasers into newly formed Scientific and Industrial Division; identified research clinicians to spur new product development (e.g., laser treatment of port-wine hemangiomas).

Plasma Kinetics, Inc. (1981 – 1984)

President and CEO

Co-founded world's first commercial copper vapor laser company. Raised funding, established manufacturing operations and led global marketing effort. Negotiated acquisition by Cooper LaserSonics in 1984.

Lawrence Livermore National Laboratory (1976 – 1981)

Project Leader

Directed Copper Laser Development for the Atomic Vapor Laser Isotope Separation Program. Managed Ph.D. scientists and engineers developing world's largest laser pump source for pulse dye laser uranium enrichment efforts at LLNL.

Consulting Experience:

Arbonne International LLC (2014 – 2018)

Conceived, designed and developed with outside firm a novel home-use ultrasound device for topical application.

JLE Associates (1990 – 1993)

Worked with two other laser experts to formulate a plan for a new laser business to be founded and owned by Hoya Corporation of Japan.

Independent Corporate Board Experience:

Ellman International, Inc. (Dec. 2013 – Sept. 2014 acquisition by Cynosure, Inc.)

Corporate Director for leading manufacturer of advanced radio-frequency products utilized around the world for precision surgical and aesthetic procedures.

Corporate Advisor/Advisory Board Experience:

Arbonne International, LLC (2018 – present)

Appointed to company's Scientific Advisory Board.

American Society for Laser Medicine and Surgery, Inc.

Appointed to the Nominating Committee by the current ASLMS president, Eric Bernstein, MD (2018 - present).

Elected to position of Industry Research and Development Representative (1995 – 1998); Elected to second term (2008 – 2011)

Appointed Exhibits Chairperson (1994 – 1998).

Awarded a Presidential Citation at the 39th Annual Conference, Denver CO (2019).

Joylux, Inc. (2017 – present)

Advisor to the CEO, minor shareholder of early-stage company developing and marketing through physicians the world's first home-use device for women's intimate wellness incorporating photobiomodulation and thermal energy.

Candesant, Inc. (2017 – present)

Advisor to the CEO, minor shareholder of early-stage company developing a safe, inoffice, non-drug solution to hyperhidrosis as well as to less severe excessive sweating.

Recent presentations at Professional Society Annual Meetings:

9th 5-Continent Congress, Lasers and Aesthetic Medicine, Barcelona, August 2018. "Will Vaginal Rejuvenation become the Largest Home-Use Device Market?".

American Academy of Dermatology Annual Meeting, San Diego, February 2018. "Lessons in Entrepreneurship: What I've Learned as Founder or Co-founder of Seven Companies".

Patents:

1.	D794,784	Skin care device
2.	9,687,671	Optical sensor and method for identifying the presence of skin and the pigmentation of skin
3.	9,302,118	Phototherapy device thermal control apparatus and method
4.	9,172,210	Mount for semiconductor devices using conformable conductive layers, and method
5.	8,965,214	Manufacturing system and method using IR communications link
6.	8,792,527	Mount for semiconductor devices using conformable conductive layers, and method
7.	8,777,935	Optical sensor and method for identifying the presence of skin
8.	8,755,420	Failure protection apparatus and system
9.	8,728,063	Antimicrobial layer for optical output window
10.	8,681,829	Compression mount for semiconductor devices, and method
11.	8,551,104	Self-contained, diode-laser-based dermatologic treatment apparatus
12.	8,518,027	Phototherapy device thermal control apparatus and method
13.	8,512,322	Antimicrobial layer for optical output window
14.	8,340,144	Compression mount for semiconductor devices, and method
15.	7,981,111	Method and apparatus for the treatment of benign pigmented lesions
16.	7,452,356	Eye-safe dermatologic treatment apparatus
17.	7,413,567	Optical sensor and method for identifying the presence of skin
18.	7,250,045	Self-contained, eye-safe hair-regrowth-inhibition apparatus and method

19. D535,746 Portable hair removal device 20. 7,118,563 Self-contained, diode-laser-based dermatologic treatment apparatus 21. 6,758,845 Automatic firing apparatus and methods for laser skin treatment over large areas 22. 5,835,518 Laser diode array packaging 23. High fluence diode laser device and method for the fabrication and use thereof 5,743,901 24. 5,707,403 Method for the laser treatment of subsurface blood vessels

Published Patent Applications:

5,527,350

25.

1. 20150057725 Phototherapy Device Thermal Control Apparatus and Method

Pulsed infrared laser treatment of psoriasis

- 2. 20140334507 Mount for Semiconductor Devices Using Conformable Conductive Layers, and Method
- 3. 20140171929 Phototherapy Device Thermal Control Apparatus and Method
- 4. 20140155876 Self-contained, Eye-Safe Hair-Regrowth-Inhibition Apparatus and Method
- 5. 20140114299 Eye-Safe Dermatologic Treatment Apparatus and Method
- 6. 20130338736 Antimicrobial Layer For Optical Output Window
- 7. 20130058367 Mount for Semiconductor Devices Using Conformable Conductive Layers, and Method
- 8. 20130051414 Compression Mount for Semiconductor Devices, and Method
- 9. 20120239016 Radiation-Based Dermatological Devices and Methods
- 10. 20120232538 Radiation-Based Dermatological Devices and Methods
- 11. 20120232537 Radiation-Based Dermatological Devices and Methods
- 12. 20110098789 Phototherapy Device Thermal Control Apparatus and Method
- 13. 20100069898 Acne Treatment Method, System and Device
- 14. 20090270848 Optical Sensor and Method for Identifying the Presence of Skin and the Pigmentation of Skin
- 15. 20090204109 Eye-Safe Dermatologic Treatment Apparatus and Method

- 16. 20090125006 Optical Sensor and Method for Identifying the Presence of Skin
- 17. 20090097513 Failure Protection Apparatus and System
- 18. 20080310836 Manufacturing System and Method Using IR Communications Link
- 19. 20080027518 Self-Contained, Eye-Safe Hair-Regrowth-Inhibition Apparatus and Method
- 20. 20070032847 Self-contained, diode-laser-based dermatologic treatment apparatus
- 21. 20060009749 Efficient diffuse light source assembly and method
- 22. 20040176824 Method and apparatus for the repigmentation of human skin
- 23. 20040176823 Acne treatment device and method
- 24. 20040176754 Method and device for sensing skin contact
- 25. 20040167592 *Method and apparatus for the treatment of benign pigmented lesions*
- 26. 20040167502 Optical sensor and method for identifying the presence of skin
- 27. 20040167501 Self-contained, eye-safe hair-regrowth-inhibition apparatus and method
- 28. 20040167500 Self-contained, diode-laser-based dermatologic treatment apparatus and method
- 29. 20040167499 Eye-safe dermatologic treatment apparatus and method
- 30. 20190046286 Dermatological Laser-Induced Plume inhibition System and Method