

IP and Opportunities Tomas Isakowitz Penn Center for Innovation University of Pennsylvania tomas@upenn.edu







האוניברסיטה העברית בירושלים THE HEBREW UNIVERSITY OF JERUSALEM



Tomás Isakowitz, Ph.D.

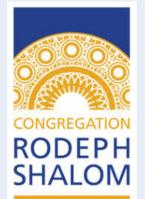














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Tech Transfers and IP

- From the lab to the benefit of society
- IP has significant Value
- Research => Protect => License



Types of Intellectual Property

Grant exclusive rights to the owner.

Trade	formula, practice, process, design, instrument, pattern,
Secret	commercial method, or compilation of information which is <u>not generally known</u> , and by which a business can obtain an economic advantage over competitors or customers.
Copyright	Protects original work; <u>expression</u> : literary works, music, software, photographs, paintings.
Patent	Protects inventions: solution to specific technological problems;
	composition, process, machine, article, plant, design
<u>Trademark</u>	recognizable sign, design or expression which distinguishes products or
	services from similar products



Patents

The right to <u>exclude others</u> from

- making, using, selling, offering to sell or importing the invention
- 20 years from earliest filing date
- Limited geographically

not automatic



(12) United States Patent Wilson et al.

(10) Patent No.: US 7,992,573 B2 (45) Date of Patent: *Aug. 9, 2011

(54) OPTICALLY GUIDED SYSTEM FOR PRECISE PLACEMENT OF A MEDICAL CATHETER IN A PATIENT

- (75) Inventors: David F. Wilson, Philadelphia, PA (US); Gregory J. Schears, Rochester, MN (US)
- (73) Assignee: The Trustees of the University of Pennsylvania, Philadelphia, PA (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1266 days.

This patent is subject to a terminal disclaimer.

- (21) Appl. No.: 11/242,688
- (22) Filed: Oct. 4, 2005

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(65) Prior Publication Data

US 2006/0036164 A1 Feb. 16, 2006

Related U.S. Application Data

- (63) Continuation-in-part of application No. 10/482,190, filed on Nov. 2, 2004, now Pat. No. 7,273,056.
- (60) Provisional application No. 60/625,002, filed on Nov. 4, 2004.
- (51) Int. Cl. *A61B 5/00* (2006.01) *A61B 1/00* (2006.01)
- (52) U.S. Cl. 128/899; 600/407; 600/424; 600/473; 600/476 (52) Field of Classification Second 128/807 800

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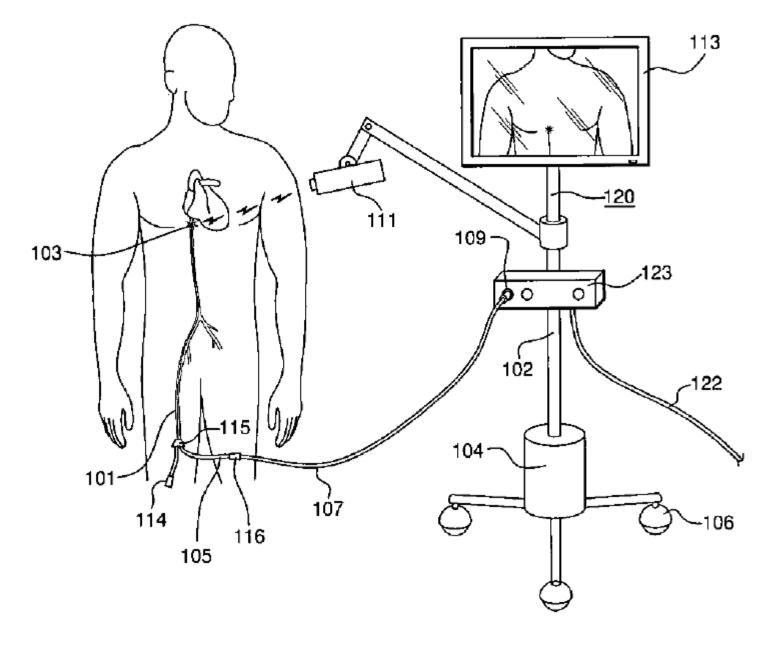
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Primary Examiner — Charles A Marmor, II Assistant Examiner — Catherine E. Burk (74) Attorney, Agent, or Firm — McCarter & English, LLP

(57) ABSTRACT

A system is provided comprising an optically-guided catheter having a proximal end, a distal end, and at least one lumen. A light-emitting means is coupled to the catheter, the catheter is inserted into place in the patient, and light is emitted as a point or points from a selected location, usually the distal tip, of the catheter to which it is coupled. The system further comprises an external detection device that detects the transdermally projected light, emitted by the light-emitting point from within the patient, thereby indicating precise placement of the catheter within the patient.





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PCI Fellows Work On

Intellectual Property

- Focus on Invention Assessments
- Identify invention
- Patentability
- Market size

Marketing

- Work with Licensing Officers
- Generate marketing
 materials
- Contact companies



Penn affiliated

Advisor consent

Right to work at Penn

One year commitment required

2022 cohort application window closed Application period for 2023 cohort opens Nov 2022



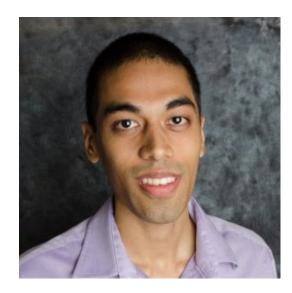


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It is open to graduate students, postdoctoral fellows, and research staff at Penn. PCI Fellows get exposure to a wide range of emerging technologies and commercialization opportunities in the life sciences, physical sciences, nanotechnology, and more.

The PCI Fellows is an experiential education program that was launched in the Fall of 2008.

The program runs on an annual cycle. A new cohort starts each Spring and Fellows can participate in consecutive cohorts.

We accept applications at any time. The application deadline for 2022 is December 17, 2021

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Physical and behavioral health are inextricably linked. Individual and population-level health and wellness require proper treatment of the whole patient, both physical and mental.

Optimizing the integration of behavioral health into your practice can be challenging, and SAMHSA recognizes that integrating holistic health initiatives occurs on a spectrum. This Integrated Behavioral Health Readiness Assessment is a diagnostic tool to help you hone in on where your organization stands today in your integration journey, and provides insights on critical areas of focus to address in order to maximize the impact of your integrated approach. Are You Prepared For Integrated Behavioral Health?

Take our quick assessment to find out

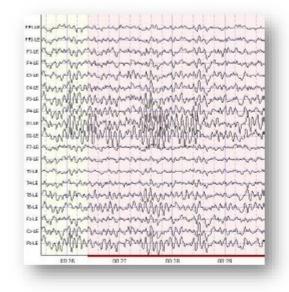
Get Started

Get Started

C Takes 4 min

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EEG is a powerful and proven technology, but has had limited use cases due to **complicated** and **expensive** hardware



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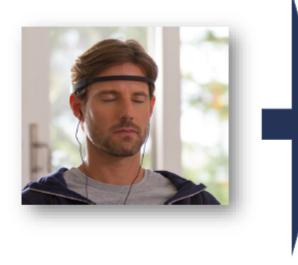
EEG Waveform Representation

Signal	Frequency	Amplitude	Activity
Delta (\delta)	Less than 4 Hz	20 - 200 µV	Increased power during difficult conditions [11]
Theta (0)	4 - 8 Hz	Around 20 µV	Power increases during the stress [11]
Alpha (a)	8 - 12 Hz	20 - 200 µV	Power suppresses during the stress [13]
Beta (B)	13-31 Hz	5 - 10 µV	Power varies according to task difficulty [11]



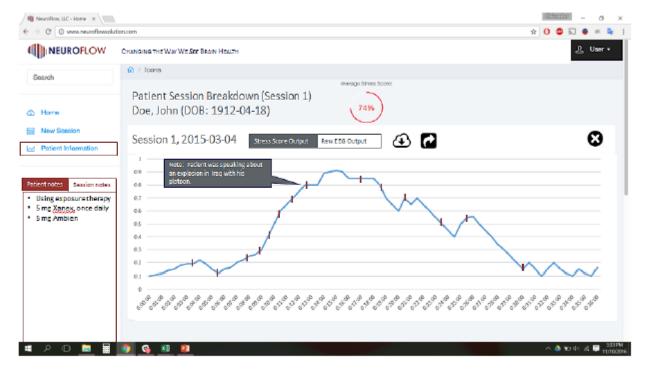


Wireless "plug-and-play" headsets are now available, allowing for **real-time quantification** of mental stress levels



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NeuroFlow helps doctors **objectively identify** concerns, **track** treatment progress, and **improve** patient care

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NEUROFLOW

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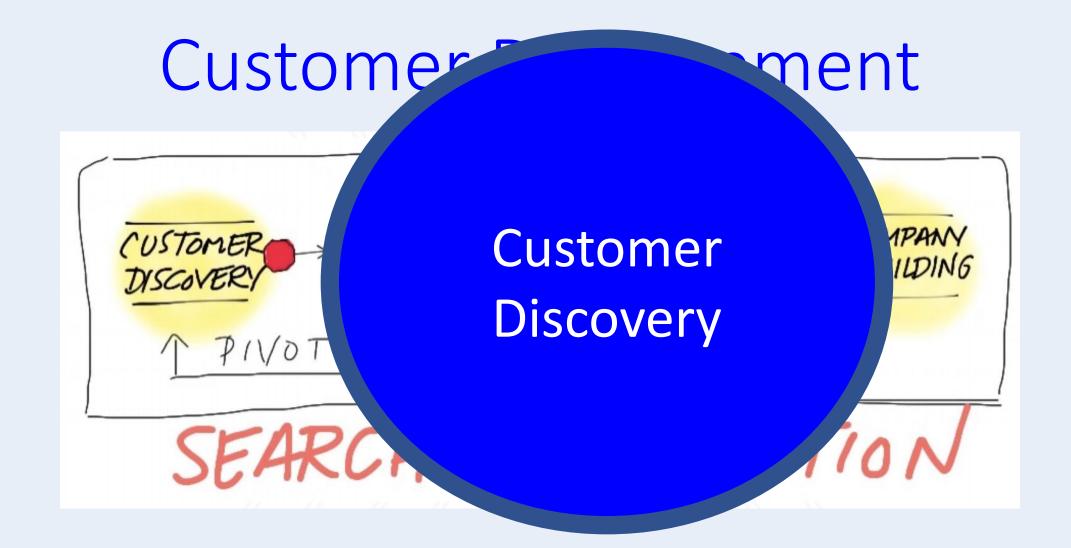
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How do we build a startup?



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Benefits:

- Is there a market?
- How do we get started?
- How to position for fund raising?

Requirements

- Teams of 2+ members
- all Penn affiliated (actively)
- Technology: out of research
- Commitment:
 - sessions
 - 20 interviews
 - ~ 10 hrs./week per person



https://pci.upenn.edu/icorps/

March 18 or 25	Opening Workshop
	Interim Mentoring
Apr 15 or 22	Closing Workshop

Looking for a TA

Oct-9, 12-1 pm	Class 0: Pre-workshop •course introduction •Get out of the building & how to get interviews
Oct-16	Class 1: Opening Workshop •Team Introductions •Business Model Generation
Oct-23	Class 2: Interviewing Workshop I •Exploring the Ecosystem •Modeling workflow+
Oct-30	Class 3: Interviewing Workshop II •Articulating Value Propositions •Interviewing Techniques •Designing an interview guide
Nov. 6, 12-1 pm	Entrepreneurial Resources Panel •Discover local resources and influencers
Week of Nov. 13	Midpoint Review •Field Work and Office Hours
Nov-20	Class 4: Closing Workshop •Lessons learned •applying for funding •Next steps



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