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Raimondo Cau

Hightech & Electronics

Trainee Patent Attorney

Before starting his career as a patent attorney, Raimondo Cau was inventor and co-founder of a medical robotics startup in which he was active as CTO until it had reached a mature stage.

He led the company's R&D and IP program and was involved in several fundraising activities. He is used to keeping an overview in complex matters and dealing with various stakeholders across disciplines and levels. Raimondo has a background in Mechanical Engineering (PhD), a system-thinking attitude and is specialized in robotics, (opto)mechatronics, precision engineering and medical devices.

Working experience

- Trainee patent attorney, V.O. (2020 – present)
- CTO and cofounder, Microsure (2016 – 2020)
- IEC/ISO technical standard committee member (2017 – 2019)
- Project leader, Medical Robotic Technologies (2014 – 2016)
- Mechanical designer, MAN Turbo (2008 – 2009)

Education

- ISO 14791 Risk Management for Medical Devices (2016)
- PhD in Mechanical Engineering, Control Systems Technology, Medical Robotics, Eindhoven University of Technology (2014)
- MSc in Mechanical Engineering, Control Systems Technology, Precision Engineering, Eindhoven University of Technology (2009)
- International Baccalaureate English Level A2 (near native), Cambridge Undergraduate Study (2002)

Publications

- Cau R. Robotic Manipulator Interface for Hinged Surgical Tools. EP3363401 (A1)
- Cau R. Surgical Robotic System with Carriage and Manipulator Unit. EP3366255 (A1)
- Cau R. Microsurgical Robot System. EP2731535 (B1), US9351796 (B2)
- Van Mulken TJM, Schols RM, Scharmga AMJ, Winkens B, Cau R, Schoenmakers FBF, Qiu SS, van der Hulst RRWJ. First-in-human robotic supermicrosurgery using a dedicated microsurgical robot for treating breast cancer-related lymphedema: a randomized pilot trial. Nat Commun. 2020;11(1):757
- Van Mulken TJM, Scharmga AMJ, Schols RM, Cau R, Jonis Y, Qiu SS, van der Hulst RRWJ. The journey of creating the first dedicated platform for robot-assisted (super)microsurgery in reconstructive surgery. Eur J Plast Surg. 2020;43:1-6
- Van Mulken TJM, Boymans CAEM, Schols RM, Cau R, Schoenmakers FBF, Hoekstra LT, Qiu SS, Selber JC, van der Hulst RRWJ. Preclinical experience using a new robotic system created for microsurgery. Plast Reconstr Surg. 2018;142(5):1367-1376
- Van Mulken TJM, Schols RM, Qiu SS, Brouwers K, Hoekstra LT, Booi DI, Cau R, Schoenmakers F, Scharmga

AMJ, van der Hulst RRWJ. Robotic (super) microsurgery: Feasibility of a new master-slave platform in an in vivo animal model and future directions. *J Surg Oncol*. 2018;118(5):826-831

- Cau R, Schoenmakers FBF, Steinbuch M, van Mulken TJM, van der Hulst RRWJ. Design and preliminary test results of a novel microsurgical telemanipulator system. 5th IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics, Sao Paulo, 2014, pp. 352-356
- Cau R. Design and realization of a master-slave system for reconstructive microsurgery. Eindhoven: Eindhoven University of Technology; 2014

Languages

- English
- Dutch
- German