



## **Dr. Patrick Heeger**

**Associate  
German Patent Attorney  
M.Sc. Biomedicine  
PhD Physics**

Patrick is a Patent attorney at Maiwald. His activities are mainly focused on the protection of intellectual property in the fields of medical technology, biotechnology, and mechanical and plant engineering. He has particular expertise in the fields of biophotonics, optogenetics and laser medicine.

During his doctoral studies at Leibniz Universität Hannover and the Lower Saxony Centre for Biomedical Engineering, Implant Research and Development, he created a test system for a light-based cochlear implant consisting of a network of neurons from different physiological units, thereby establishing the basis for an optogenetic biohybrid cochlear implant.

### **CAREER**

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since 2025	Patent attorney at Maiwald
2023 - 2025	Patent attorney trainee at Maiwald
2022 - 2023	Patent attorney trainee at another IP firm

### **EDUCATION**

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2025	Admitted to practice as German patent attorney
2022 - 2025	Studies law for patent attorneys at the University of Hagen
2014 - 2021	Doctorate in the field of biophysics at Leibniz University Hannover
2012 - 2014	Master's degree in biomedicine at the University of Veterinary Medicine Hannover
2009 - 2012	Bachelor's degree in biology at the Technical University of Braunschweig

### **PRACTICE AREAS**

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- 製薬&バイオテクノロジー
- 電気工学&機械工学
- 計測技術&プロセスエンジニアリング
- 医療技術&トイメーキング

## **SERVICES**

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- Patent prosecution and portfolio management
- Application strategies and drafting of patent applications
- Freedom-to-operate- and validity opinions
- Opposition and nullity proceedings

## **PUBLICATIONS**

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- Probing interneuronal cell communication via optogenetic stimulation, 2021

## **LANGUAGES**

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- German
- English
- Spanish
- Dutch