

BARDEHLE PAGENBERG Team

Elisabeth Richter

Dr. rer. nat., M. Sc. (Physics)



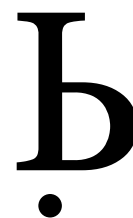
Patent Engineer

Location Munich

Languages: German, English, French, Spanish, Portuguese, Po

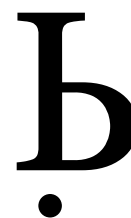
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Elisabeth contributes her scientific expertise in solid-state and semiconductor physics, nanostructure technology, and low-temperature physics to complex patent grant, opposition, nullity, and infringement proceedings. Since 2025, she has supported clients in strategically building and securing patent portfolios on a national and European level. Elisabeth acts on behalf of international groups and SME as well as start-ups within Europe and beyond.

Elisabeth is an experiential physicist and author of publications in leading journals. She earned her doctoral degree at the University of Regensburg on quantum transport in topological insulators, gaining several years of hands-on experience in cleanroom fabrication. As an experienced supervisor of scientific publications and speaker at international workshops, she specializes in crystallizing the gist of complex technical concepts into precise, effective arguments. Her extraordinary multilingualism, including a proficiency in English, French, and Spanish, broadens her perspective on the international dimensions of intellectual property.



Legal Areas

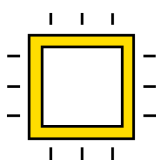
Patent Valuation

Patent Litigation

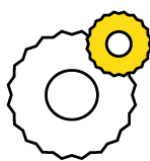
Patent Prosecution

Oppositions and Nullity

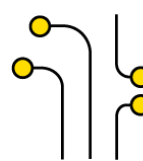
Industries



Semiconductor Technology



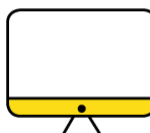
Mechanical Engineering



Electrical Engineering



Medical Devices



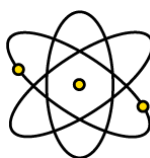
Software, IT & Computer Technology



Telecommunications



Sports



Physics



Automotive



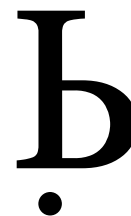


Publications

[E. Richter et al., “Anomalous conductance steps in three-dimensional topological insulator HgTe-based quantum point contacts”, Physical Review Research 7 013260 \(2025\)](#)

[S. Hartl, ER et al., “Quantum Hall effect and current distribution in the three-dimensional topological insulator HgTe”, Physical Review Research 7 013273 \(2025\)](#)

[J. Thieme, ER et al., “Magnetic field-bias current interplay in HgTe-based three-terminal Josephson junctions”, SciPost Physics 21, 012 \(2026\)](#)



Curriculum Vitae

2025 - today	Patent engineer at BARDEHLE PAGENBERG in Munich
2025 - today	Studies of law for patent attorneys at the remote-learning university FernUniversität Hagen
2019 - 2025	Doctoral degree in physics (Dr. rer. nat.) at the University of Regensburg, financed, inter alia, by the Elite Network of Bavaria and the Collaborative Research Centre 1277, magna cum laude
2016 - 2018	Master's degree in physics (M. Sc.), University of Regensburg
2013 - 2016	Bachelor's degree in physics (B. Sc.), University of Regensburg