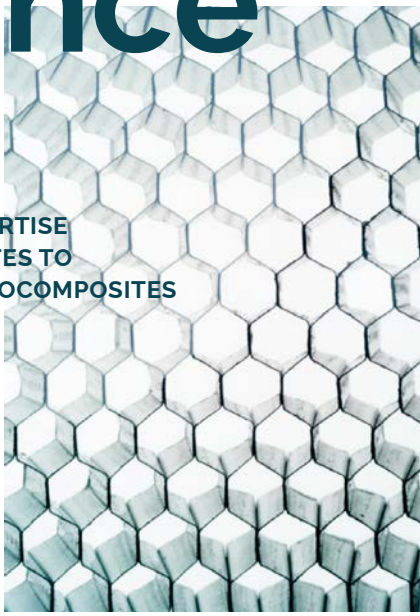
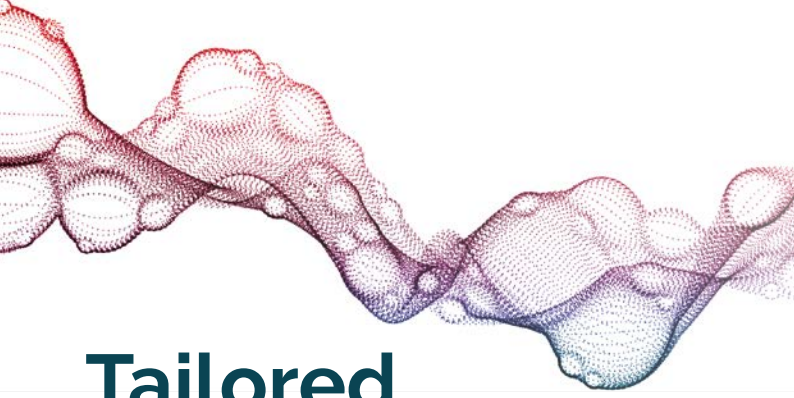
wallinger
ricker
schlotter

Materials Science



COMPREHENSIVE EXPERTISE
FROM FIBER COMPOSITES TO
CELL-POPULATED NANOCOMPOSITES



Tailored strategies for securing patent protection

From renowned patent attorneys with many years of experience to young IP experts with doctorates: our team is diverse, agile, and competent. From start-ups to global corporations, we advise companies in all relevant technology areas on intellectual property. Demand-oriented and with great passion for a client's vision.

BRINGING KNOWLEDGE TOGETHER

The sharp dividing lines between individual technologies and sciences are becoming increasingly blurred. The law firm Wallinger Ricker Schlotter recognized this trend when it was founded and has since promoted interdisciplinary cooperation and professional exchange between patent attorneys from a wide range of disciplines.

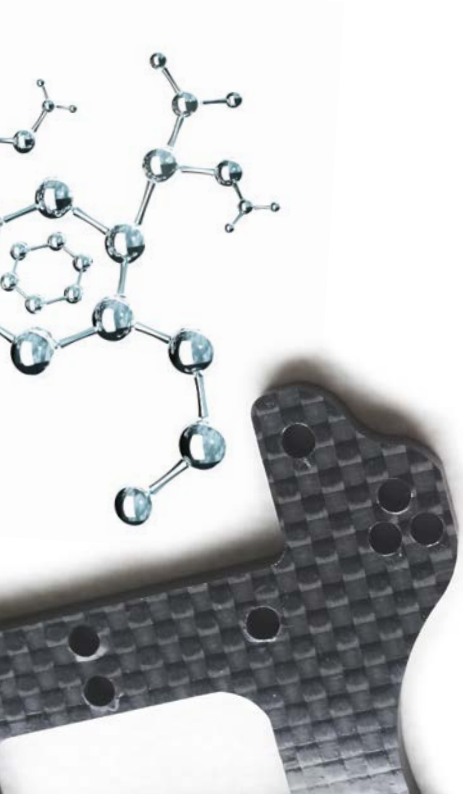
PRACTICAL EXPERTISE

Our IP experts and patent attorneys have acquired their technical know-how through many years of experience in research – whether as successful scientists at universities or in the research and development departments of industry.

Materials Science

The development of new materials is fundamental to innovation in the vast majority of industries. Novel composites and alloys, hybrid materials and superconductors, bio- and nanomaterials or smart materials, such as hydrogels and carbon nanotubes, have revolutionized numerous fields of technology.

Today, materials science is a key technology for application areas that will shape our lives in the future: sustainable mobility, renewable energies, medical technology, automotive and aerospace industries, electrical industry, chemical industry, microelectronics and environmental protection.





Our Expertise

Our patent attorneys in the field of materials science have a broad technical knowledge and have advised clients extensively in the following areas:

FIBER COMPOSITE MATERIALS FOR ROTOR BLADES

SOUND-REDUCING MATERIALS FOR VEHICLE PARTS

EPOXY RESIN COMPOSITIONS FOR PRINTED CIRCUIT BOARDS

CRYSTALLINE ORGANIC SEMICONDUCTOR MATERIALS

SHAPE MEMORY ALLOYS

HOLLOW FIBER MEMBRANES FOR DIALYSIS

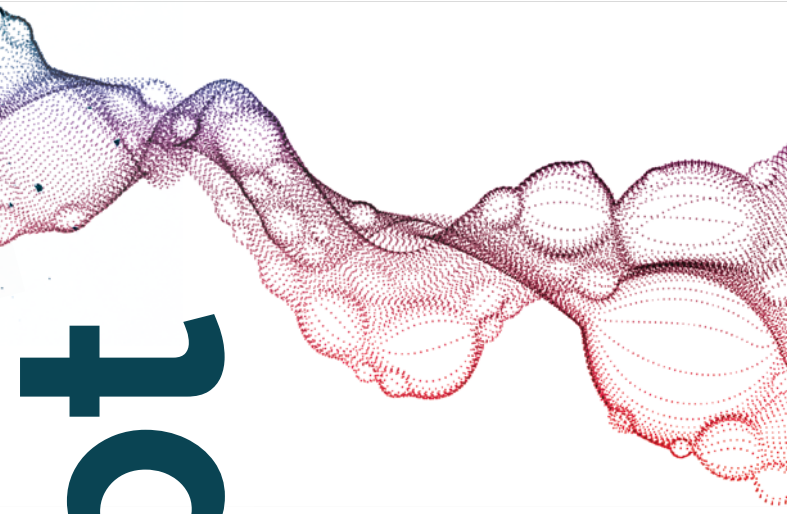
POROUS FOAM MATERIALS FROM MICROFIBRILLATED CELLULOSE

SILICONE FOAMS FOR WOUND CARE

ARTIFICIAL TISSUES

CELL-POPULATED NANOCOMPOSITES FOR TISSUE REGENERATION

MAGNETOENZYMATIC LIPOSOME SYSTEMS FOR TARGETED DRUG TRANSPORT



Concept

As a cross-sectional technology, material sciences are applied in various disciplines such as chemistry, physics, life sciences, mechanics, and construction engineering. The firm's patent attorneys are specialized in all these fields and have completed relevant academic studies with doctoral degrees. They gained several years of industrial experience, continued scientific work and have relevant R&D experience.

The wide range of these biographies allows for the teaming of several patent attorneys with completely different technical backgrounds, if required – and thus ensures optimal client service, especially in complex, interdisciplinary requirements.

Our Competencies

- MEDICAL TECHNOLOGY
- GREEN TECHNOLOGIES
- MATERIAL SCIENCES
- CHEMISTRY
- PHARMACY
- BIOTECHNOLOGY
- MECHANICAL ENGINEERING
- AUTOMATION AND ROBOTICS
- PHYSICS
- ELECTRICAL ENGINEERING/ELECTRONICS AND SEMICONDUCTORS (EE)
- INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT)
- DIGITAL TECHNOLOGIES

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