

INTELLECTUAL PROPERTY ANALYSIS



Research and Development

Protect the value of your patents on digital devices and systems.

Billions are invested each year in research and development and in filing patents on new technologies, in a quest to create competitive advantages and drive growth. Unfortunately, billions are also lost to technology counterfeiters or business competitors, who steal intellectual property (IP) and jeopardize the innovator's ability to gain sufficient return on investment, secure first-to-market advantage, and build brand confidence.

While it's possible for patent holders to recover financial losses with proof that intellectual property has been copied, it's becoming harder. This is due to a variety of reasons, including the growing number of manufacturers around the world that can produce devices, and the proliferation of inexpensive, sophisticated technology that enables them to do so. These developments mean that actors can adapt the smallest elements of code, design, or combination of characteristics, and embed them in other devices – often in an entirely different product line.

For over a decade, we have leveraged our experience in digital device intellectual property protection to help companies recover millions of dollars in investment, for unauthorized use of their patents, through investigation of IP theft and enabling licensing of intellectual property. Unlike other companies offering IP analysis services, our accompaniment spans the entire investigation process, from patent infringement proof to patent litigation and provision of legal reports and expert witness in court.

Key Outcomes

- In-depth investigation at our Advanced Labs to find evidence of patent infringement
- Actionable reporting complemented with expert testimony in a court of law
- Innovation investment preserved by enabling:
 - Compensation for unauthorized IP use
 - The establishment of license fees for patented mechanisms



The Kudelski Security Advantage

Deep expertise in hardware and software analysis

Proprietary and market-leading technology to extract and analyze data

Support for entire process – from analysis to legal representation

How We Engage

Intellectual Property Analysis service can be delivered on a per-application contract or through a yearly retainer.

Define Scope & Goals

A Kudelski Security laboratory expert meets with client to define the scope of the patent infringement investigation and specific goals for the engagement. Project planning proceeds according to the required technical skills and desired outcome.

Patent Analysis

We read and analyze the patent documents to understand the principal mechanisms and identify the patterns to be collected from third-party devices.

Investigation

We carry out the investigation to access and highlight improper use of your IP. Clients will benefit from our dedicated technical experts in different domains in support of the mandate:

- Hardware security experts
- Software security experts
- Forensic experts
- Cryptographic engineers
- Project manager
- Legal, litigation teams
- Intellectual Property division

Full Investigation Process – From Analysis to Legal Representation

The Kudelski Group holds more than 5000 patents and has a strong track record in actively defending them. Our success is driven in part by our exacting methods of investigation and analysis, and in part by our advanced technological capabilities.

Investigation and Analysis – Tools and Capabilities

Kudelski Security Advanced Labs experts analyze the functional behavior of electronic devices and systems, in order to provide the evidence that your patented mechanisms have been implemented and are used in competing products.

- We have expertise in both hardware and software analysis and have developed proprietary technology in our labs to locate and analyze mechanisms. Expertise covers everything from board and integrated circuit reverse-engineering to software reverse-engineering and communication protocols analysis.
- We extract data by chip-off to access obfuscated or hidden code in protected devices.
- Our comprehensive communication monitoring setup covering LTE, LPWAN and IP networks enables analysis of relevant protocols implementation.
- Our scanning electron microscopy and semiconductor focused ion beam (FIB) enable advanced reverse-engineering to inspect assets related to design architecture, software codes, and algorithms.

Expert Witness Testimony

We produce a technical expertise report that contains the following elements:

- Details of the mechanisms we investigated
- An explanation of methodologies
- An analysis of the results obtained.

We accompany you through the entire investigation process, from patent infringement proof to patent litigation and provision of legal reports and expert witness in court. We offer a global assistance with the support of our Intellectual Property division and Legal teams.

Kudelski Security, a division of the Kudelski Group (SIX: KUD.S), is an innovative, independent provider of tailored cybersecurity solutions to enterprises and public sector institutions. Kudelski Security is headquartered in Cheseaux-sur-Lausanne, Switzerland, and Phoenix, Arizona, with operations in countries around the world.

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