AI Across the Patent Prosecution Lifecycle

PRODUCED BY JURISTAT

IP COUNSEL CAFÉ | FALL NYC MEETING 2025



Where AI Meets IP: Today's Reality

AI has moved beyond hype — it's being deployed across the patent lifecycle to drive efficiency, reduce cost, and uncover strategic opportunities. But adoption varies by stage, and success depends on data quality, oversight, and a deep commitment from the organization.

Prosecution Strategy Is Getting More Intelligent

AI tools provide corporate IP teams with a glimpse behind the curtain of their outside counsel's prosecution approach. New advances in legal tech enable in-house attorneys to **verify if their firms are adhering to their policies** and **collaborate more closely on supporting business goals**.

Drafting Tools Are Catching On

AI is actively being used to **generate specs and claims from disclosures** in minutes. It can compose office action responses informed by past performance data. Adoption is growing, but quality, security, and USPTO compliance still demand a human in the loop.

Portfolio Management Enters a New Era

Companies are using tools to identify underperforming assets, reduce maintenance costs, visualize competitive trends, and guide filing strategy. These tools combine AI with real-world filing and market data to **support smarter, cost-effective decisions** across large portfolios.



The Bottom Line

Prior art search, portfolio strategy, and competitive landscaping are leading the way. Drafting and prosecution tools are evolving quickly. AI won't replace patent practitioners, but it can eliminate low-value work and surface better decisions, faster.

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AI Across the Patent Prosecution Lifecycle

Where it's working and what's next



Invention Capture & Disclosure Intake

AI-powered portals help standardize disclosures by auto-classifying technology areas, extracting keywords, and flagging incomplete sections. Some in-house teams are building custom platforms with LLMs to streamline review. NLP tools also triage inventions, comparing new disclosures against prior filings or art to suggest patentability. Adoption is strongest in large R&D-heavy organizations.

Tools to watch: IP Copilot, Tradespace, Patlytics, DeepIP
Key challenge: Clean, structured inventor input is essential for accurate AI results.

Prior Art Search & Tech Landscaping

This is AI's most mature use case. Tools can help uncover relevant art, generate instant landscapes, and map tech domains. Others go further, connecting patents to products and enabling bulk portfolio analysis. These tools save time and support novelty assessments, but still require human validation.

Tools to watch: Questel Orbit, PatSnap, Juristat, XLSCOUT, IP Copilot
Key challenge: Generative models can hallucinate; international data coverage can be inconsistent.

Drafting & Claim Generation

Generative AI tools can draft specs, claims, and even figures based on structured disclosures. Some platforms assist with quality checks, flagging missing support or suggesting dependent claim structures. Adoption is growing, but caution remains due to ethical obligations and quality concerns.

Tools to watch: PatentPal, Junior, PowerPatent, Solve Intelligence, DeepIP, BlackHills
Key challenge: AI must be supervised. Attorneys remain responsible for accuracy and compliance.

Prosecution Strategy & Workflow Automation

AI enables attorneys to anticipate examiner behavior and cut unnecessary prosecution costs. Platforms may use examiner history, claim trends, and timing data to inform smarter responses. Additionally, these technologies can help streamline OA responses and IDS preparation, allowing teams to reallocate resources more efficiently. This data can also help with outside counsel selection, optimization, and performance management

Tools to watch: Juristat, Anaqua, Orbit IP
Key challenge: Predictions are useful, but strategic judgment and context still matter.

Portfolio Strategy, Competitive Intel & Post-Grant Analytics

AI is driving smarter filing decisions, maintenance fee planning/pruning, and competitive monitoring. Certain tools can help identify low-value assets, detect whitespace, and align patent coverage with business strategy. On the enforcement side, platforms can analyze litigation risk and support licensing teams.

Tools to watch: PatSnap, Juristat, Clarivate Innography, Anaqua, LexisNexis Lex Machina
Key challenge: Linking patent data to business context (products, revenue, markets) often requires manual effort.

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