

PowerPatent showcases generative AI biotech patent drafting solutions at BiotechX USA Congress

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[PowerPatent](#) announces its new generative AI biotech patent drafting solutions at BiotechX. The BioTechX USA Congress features speakers from the top 50 pharmaceutical companies, biotechs, healthcare systems and academic groups with the aim to hone collaboration and networking

opportunities. Visit PowerPatent's booth at BiotechX to experience firsthand how the AI Biotech Patent Solution is reshaping the future of biotech patenting. Our experts will be available to provide live demonstrations and insights into how this technology can enhance your patent strategy.

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PowerPatent helps biotech companies to approach IPR considerations as a critical component of business strategy to safeguard their innovations, brands, and competitive advantage in the marketplace.”

Mary Kimani, Director of Communications

Generative AI with chemical formula/equation capabilities can significantly aid in the biotech patent drafting process by automating and enhancing various aspects of drafting patent applications for novel chemical compounds, pharmaceuticals, and biotechnological innovations. Here's how this technology can be applied:

Compound Design and Optimization:

Generative AI can describe new chemical structures based on a given set of parameters, such as desired properties, functional groups, or target activities. It can explore vast

chemical space more efficiently than manual methods. This is valuable when inventors are seeking to design compounds with specific characteristics, such as enhanced efficacy or reduced



side effects. Generative AI can expand on chemical reactions and transformations based on input reactants, conditions, and desired products. This capability aids in suggesting viable synthetic routes for new compounds, helping inventors to outline the chemical pathways required for synthesis.

Patent Claim Generation:

AI can assist in generating patent claims by analyzing the chemical structure and its properties. It can suggest appropriate claims that cover the composition of matter, methods of synthesis, therapeutic uses, and more, based on established patent language and legal requirements.

Technical Description Writing:

Generative AI can assist in drafting the technical description section of a patent application. By analyzing the chemical structure, AI can suggest accurate and standardized descriptions of the compound's properties, structure-activity relationships, and potential applications.

Data Interpretation:

AI can elaborate on the results from experimental data related to the chemical compound's properties, stability, and efficacy. It can assist in summarizing the data for inclusion in the patent application, helping patent drafters communicate the technical significance of the [invention](#).

Language Optimization:

AI can assist in refining the language used in patent applications to ensure accuracy, clarity, and adherence to legal terminology. This is crucial for ensuring that the patent application is well-written and effectively communicates the innovation to patent examiners.

By leveraging generative AI with chemical formula/equation capabilities, biotech patent drafters can streamline the drafting process, improve accuracy, and enhance the quality of patent applications. This technology can

UNITED STATES
PATENT AND TRADEMARK OFFICE

uspto

Demystifying the Patent Process



August 30th 2023
10 AM - 12 PM

Martin Luther King Jr. Library, 3rd FL
150 E San Fernando St.
San Jose, CA 95112

*Free parking with validation is available
at the Fourth Street Garage

Are you an entrepreneur or technology company interested in protecting your intellectual property (IP)?

Join our Silicon Valley SBDC event, in collaboration with the United States Patent and Trademark Office (USPTO) to learn about the different types of patents, including utility, design, and plant. In this session USPTO experts will discuss the difference between provisional patent applications and non-provisional patent applications and their use. Get connect to pro bono services for your IP.

Attendees will also learn about:

- The process of patent prosecution
- The role of patent examiners at the USPTO
- What to expect when working with the USPTO
- Resources available through the USPTO to protect your IP

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Reasonable accommodations for persons with disabilities will be made if at least 72 hours in advance.
Contact: kimtung@sjsu.edu



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USPTO PowerPatent Seminar



WEEKLY

EVENTS
**BGF HIGH LEVEL DIALOGUES ON REGULATION
FRAMEWORK OF AI ASSISTANTS AND CHATGPT**
The first Dialogue: February 28, 2023 (Online)

Agenda

8:30 AM - 8:35 AM: Welcome and Introduction by Governor Michael Dukakis, Co-founder and Chairman of the Boston Global Forum (BGF)
8:35 AM - 8:45 AM: About ChatGPT and AI Assistant, MIT professor Alex Pentland
8:45 AM - 9:00 AM: Keynote Speech by Vint Cerf, Father of the Internet
9:00 AM - 9:30 AM: Q&A
9:30 AM - 9:45 AM: The first version of Regulation Framework for AI Assistants and ChatGPT, MIT professor Nazil Choucri
9:45 AM - 11:00AM: Panel Discussion on the Regulation Framework for AI Assistants and ChatGPT

Moderator: Governor Michael Dukakis
Panelists:
Thomas Patterson, Harvard professor, BGF's Board Member
Martha Minow, Harvard professor, former Dean of Harvard Law School
Zlatko Lagumdzija, former Prime Minister of Bosnia and Herzegovina
John Henry Clippinger, AI Activist
Ramu Damodaran, Co-Chair of UN100 Initiative
Bao Tran, Founder of PowerPatent, a generative AI legaltech company

11:00 PM - 11:05 PM: Closing Remarks by Nguyen Anh Tuan, CEO of the Boston Global Forum

Bao Tran presents at Boston Global Forum 2-28-2023

significantly reduce the time and effort required for drafting, allowing patent professionals to focus on strategic aspects of intellectual property management and innovation.

Handling chemical structures and formulas in patent application claims and descriptions is a critical aspect of biotech and chemical patent drafting. Accurate representation and clear communication of these structures are essential for conveying the novelty, inventiveness, and scope of the invention. Here's how to effectively handle chemical structures and formulas in patent applications:

Use Standardized Notation:

Utilize well-accepted chemical notation, such as IUPAC (International Union of Pure and Applied Chemistry) nomenclature, to represent chemical structures and formulas. This ensures clarity and consistency across the patent application and helps experts understand the compounds accurately.

Provide Clear Structural Diagrams:

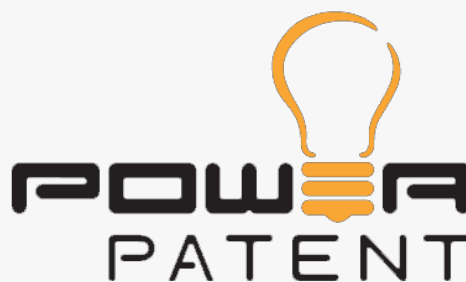
Include high-quality structural diagrams of the chemical compounds. These diagrams should clearly show the arrangement of atoms, bonds, and functional groups. Use software tools or graphic design programs to create accurate and visually appealing representations.

Include Stereochemistry Details:

If relevant, provide stereochemistry information, including stereoisomers and chiral centers. Indicate the configuration of substituents and stereochemistry using standard conventions (R/S, E/Z, cis/trans).



Powerful Idea



PowerPatent Logo

Label Functional Groups:

In your diagrams, label functional groups, substituents, and any reactive sites. This aids in understanding the role and properties of different parts of the molecule.

Accurate Chemical Formulas:

Clearly present the chemical formulas, molecular weights, and elemental compositions of the compounds. This is often included in a section describing the chemical compounds in the patent application.

Propose of generative AI patent drafting tools can greatly improve a company's bottom while increasing its valuation. The traditional, confrontational approach to patent strategy may no longer exist, but its place has been taken by more nuanced approaches for companies leveraging intellectual property for competitive advantage. With IP rights increasingly used as passports to new market opportunities, strategic choices are emerging that provide faster and cheaper access to technologies powering these opportunities.

Patents remain a crucial source of innovation and growth in an expanding global economy, according to the EPO's 2016 Annual Report, granted patents soared 40% higher than 2015 and set a record high number 96 000, the most ever seen at one time by their office.

Companies are discovering innovative methods of unlocking the financial potential of their IP assets, with stock analysts increasingly factoring intellectual property into valuation models as it becomes clearer that having a robust IP portfolio can serve as a powerful competitive differentiator and promote future growth.

When businesses need to revise their budgets, they often face the challenge of making cost-saving decisions without compromising the long-term growth and profitability of the company. Intellectual property, being a critical asset, plays a significant role in shaping a company's future success. Therefore, businesses must approach budget revisions with an integrated IPR strategy. Here are some essential IPR considerations for businesses during budget revisions:

1. Reviewing Existing IPR Portfolio

The first step in any IPR budget revision is conducting a thorough review of the company's existing intellectual property portfolio. This review should include all patents, trademarks, copyrights, and trade secrets owned by the company. By evaluating the portfolio, businesses can identify assets that are no longer relevant, not providing any competitive advantage, or have expired or are nearing expiration.

By eliminating or not renewing redundant or less valuable IPR assets, businesses can save on maintenance fees and focus their resources on protecting and enforcing the most critical intellectual property.

2. Prioritizing Key IPR Assets

Not all IPR assets hold equal importance for a business. Some intellectual property might be directly linked to the core products or services, while others might play a more marginal role. During budget revisions, businesses should prioritize the protection and maintenance of key IPR assets that are fundamental to their competitive position and revenue generation.

Innovative products, unique technologies, and distinctive brand elements should receive the highest priority. By allocating resources to safeguard these crucial assets, businesses can maintain their market advantage and enhance brand reputation. Here are some key considerations and strategies for prioritizing IPR assets:

Identify Core IPR Assets

The first step is to identify the IPR assets that are directly linked to the core products, services, or technologies of the business. These assets are the foundation of the company's competitive advantage and revenue generation. They could include patented inventions, proprietary technology, unique processes, or trademarks associated with flagship products or services.

Analyze Market Value

Conduct a thorough analysis of the market value and potential of each IPR asset. Some intellectual property might have a broader market appeal and higher revenue potential, while others may have limited applicability or are relevant only to niche markets. By assessing the commercial viability and growth prospects of each asset, businesses can make informed decisions about which assets to prioritize.

Assess Competitor Landscape

Understanding the IPR landscape of competitors is essential. Analyze the intellectual property portfolios of key competitors to identify areas of strength and weakness. If a competitor holds a dominant position in a particular area, it may be necessary for the business to prioritize its own assets in that domain or explore alternative strategies to gain a competitive edge.

The stage of the IPR asset's lifecycle also influences prioritization. For example, if a patent is nearing expiration, the company may need to decide whether it is worth renewing, or if the technology has become obsolete and is better left to expire. On the other hand, if a trademark has gained substantial brand recognition, renewing and maintaining it becomes a higher priority.

Evaluate Potential Threats and Opportunities

Assess potential threats that could compromise the value of an IPR asset. For instance, if the company is aware of potential patent infringements or counterfeiting of its trademarks, it should prioritize allocating resources to address these challenges through legal actions or brand protection measures.

Simultaneously, identify opportunities where investing in certain IPR assets can lead to new

revenue streams or market expansion. Licensing or partnering with other companies may be viable options for leveraging the value of the company's IP.

Budget Allocation

Once the key IPR assets are identified and prioritized, allocate the budget accordingly. The higher-priority assets should receive a more substantial share of the resources to ensure their protection, maintenance, and enforcement. However, this does not mean completely neglecting lower-priority assets; they should still receive sufficient attention to maintain basic protection.

3. Assessing Competitor IPR Activity

While revising budgets, it's essential for businesses to keep an eye on their competitors' IPR activities. Monitoring patent filings, trademark registrations, and other intellectual property moves made by competitors can provide valuable insights into their strategic direction.

By understanding competitor IPR trends, businesses can identify potential areas of conflict or opportunities for collaboration. This information can influence budget decisions related to clearance searches, infringement assessments, and even potential litigation costs.

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4. Cost-Effective IP Protection Strategies

IPR protection can be expensive, especially for smaller businesses. However, cutting corners on intellectual property protection can lead to costly consequences in the long run. During budget revisions, businesses should work with their legal counsel to develop cost-effective IP protection strategies.

For example, companies can consider filing provisional patent applications to secure an early priority date without incurring the full cost of a non-provisional patent application immediately. Additionally, businesses can explore regional trademark registrations instead of pursuing global protection initially to reduce upfront costs.

Here are some practical and cost-conscious IP protection strategies for businesses:

Prioritize Key IP Assets

As mentioned earlier, identify and prioritize the most critical IP assets that directly contribute to the core products, services, or technologies of the business. Focus on protecting these key assets first, as they are fundamental to the company's competitive edge and revenue generation.

Trade Secrets and Non-Disclosure Agreements (NDAs)

Trade secrets can be a cost-effective form of IP protection. Businesses can keep valuable information confidential and prevent unauthorized disclosure by implementing strict internal controls and NDAs with employees, contractors, and business partners.

Provisional Patent Applications

For inventions that are still under development or refinement, filing provisional patent applications can be a cost-effective option. Provisional applications establish an early priority date while delaying the more expensive process of filing a full non-provisional patent application. During the provisional period (12 months), the term “patent pending” can be used to notify the public of the potential IP protection.

Regional IP Protection

Consider starting with regional IP protection instead of seeking global coverage initially. Filing for IP protection in individual countries or within a specific region can help manage costs while targeting key markets. As the business expands, further international filings can be pursued.

Utilize Online IP Tools

There are various online resources and tools provided by patent offices and IP organizations that can help businesses with IP research and initial assessments. These tools often include patent and trademark databases, which allow entrepreneurs to conduct preliminary searches and gather relevant information at minimal cost.

Collaborative Agreements and Licensing

Instead of solely investing in extensive IP protection, explore collaborative agreements and licensing opportunities with other companies. By partnering with established entities or licensing IP to interested parties, businesses can gain access to new markets, share costs, and strengthen their market presence without significant upfront expenses.

5. Avoiding Infringement and Legal Disputes

Litigation related to intellectual property can be financially draining for businesses, especially if they are found to infringe on someone else’s IP rights. During budget revisions, businesses should invest in comprehensive clearance searches to identify potential risks of infringement before launching new products or services.

Furthermore, businesses should allocate resources for ongoing monitoring of their IP assets to detect any unauthorized use or potential infringements by others. Prompt identification of infringements can allow businesses to take swift legal action and protect their rights.

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6. Leveraging Licensing and Collaboration Opportunities

Revising budgets doesn’t necessarily mean reducing investment in intellectual property. Businesses can explore licensing and collaboration opportunities to monetize their existing IP assets and generate additional revenue streams.

By licensing their technology or trademarks to other companies or collaborating with partners, businesses can gain access to new markets, share development costs, and strengthen their

market presence without significant upfront expenses.

Here are some ways businesses can effectively leverage licensing and collaboration opportunities:

Identify Potential Partners

Begin by identifying potential partners who may be interested in licensing the company's IP or collaborating on joint projects. Look for businesses that complement the company's offerings or have a target audience that aligns with the IP asset's market.

Market Research and Due Diligence

Conduct thorough market research and due diligence on potential partners to ensure their credibility, reputation, and alignment with the business's values and objectives. It's essential to select partners with a track record of successful collaborations and a commitment to protecting intellectual property rights.

Negotiate Fair and Clear Terms

When entering into licensing agreements or collaboration arrangements, negotiate fair and clear terms that benefit both parties. Define the scope of use for the IP, duration of the agreement, royalty rates, sublicensing rights (if any), and any restrictions or limitations on use.

Tailor Licenses for Different Markets

Consider offering different types of licenses for different markets and industries. For instance, a business may provide exclusive licenses to partners operating in specific geographic regions or non-exclusive licenses to partners serving different market segments.

Leverage Technology Transfer Offices

For academic institutions and research organizations, technology transfer offices can facilitate the licensing and commercialization of IP. These offices help connect researchers with potential licensees or collaborators and navigate the licensing process.

7. Educating Employees on IPR

Budget revisions often lead to cost-cutting measures, which can inadvertently result in inadequate education and training on IPR matters. It's crucial for businesses to continue investing in educating their employees about the importance of intellectual property protection and the risks of inadvertently infringing on others' rights.

Aware and well-informed employees can play an essential role in identifying potential IP issues, contributing to an overall stronger IP culture within the organization.

Intellectual property rights are vital assets that businesses should carefully consider when revising their budgets. See [How PowerPatent can help lawyers work more efficiently and gain more time back using advanced AI assisted workflow.](#)

Visit www.PowerPatent.com and request a demo today!

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