

PowerPatent Announces Solution to convert Scientific Publications into Non-Provisional Patent Applications

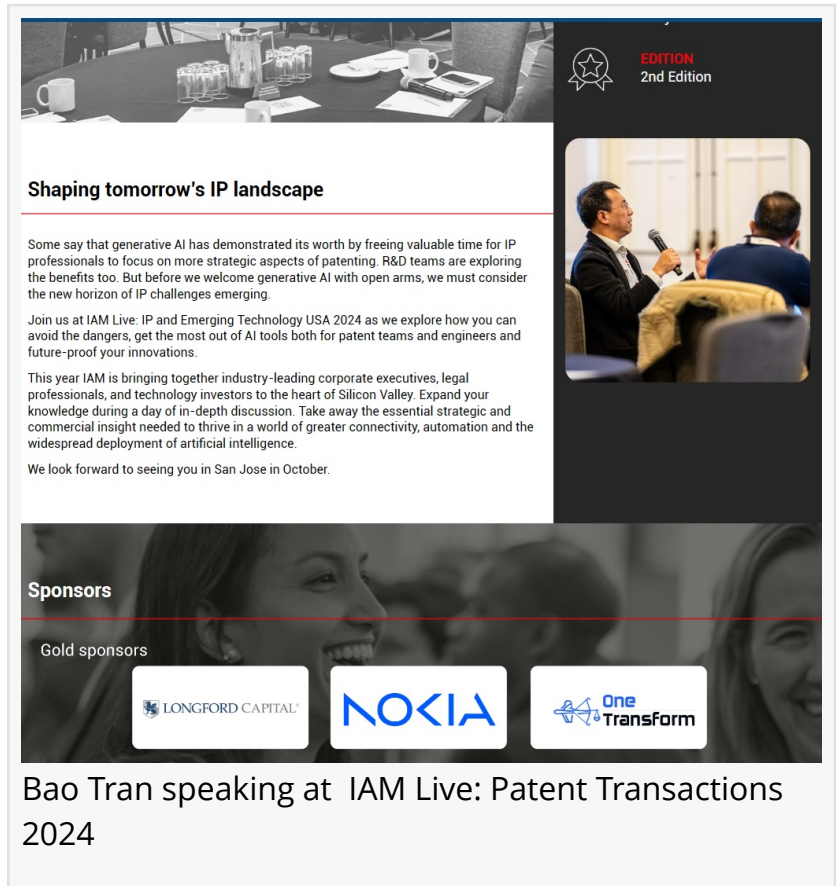
PowerPatent Announces Solution to convert Research Publications into Non-Provisional Patent Applications at AUTM Annual Meeting in DC.

WASHINGTON, DC, UNITED STATES, October 28, 2024 /EINPresswire.com/ -- PowerPatent announces a new solution to convert PDFs submitted for scientific and engineering research publication into full blown [patent](#) applications. The solution serves the needs of university technology transfer offices (TTOs).

Converting scientific publications into patent applications is an essential, albeit complex [process](#) for TTOs that want to maximize the commercial impact of academic research. By understanding the distinct requirements of patents compared to publications, selecting research with patent potential, and working closely with researchers, TTOs can translate groundbreaking discoveries into valuable intellectual property.

However, filing scientific/research publications as patent applications had been challenging and expensive. This process requires balancing the dense, technical language of academic papers with the specific requirements of patent applications. For TTOs, it's not just about protecting research—it's about enhancing the university's value by translating complex science into a practical asset.

PowerPatent's new solution makes the patenting process manageable, even for those who aren't patent experts. While scientific papers are thorough, patent applications require specific details



Shaping tomorrow's IP landscape

Some say that generative AI has demonstrated its worth by freeing valuable time for IP professionals to focus on more strategic aspects of patenting. R&D teams are exploring the benefits too. But before we welcome generative AI with open arms, we must consider the new horizon of IP challenges emerging.

Join us at IAM Live: IP and Emerging Technology USA 2024 as we explore how you can avoid the dangers, get the most out of AI tools both for patent teams and engineers and future-proof your innovations.

This year IAM is bringing together industry-leading corporate executives, legal professionals, and technology investors to the heart of Silicon Valley. Expand your knowledge during a day of in-depth discussion. Take away the essential strategic and commercial insight needed to thrive in a world of greater connectivity, automation and the widespread deployment of artificial intelligence.

We look forward to seeing you in San Jose in October.

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Bao Tran speaking at IAM Live: Patent Transactions 2024

about how the invention works, functions, and solves a problem. PowerPatent's new solution addresses these issues in a cost-effective manner. Here's how it works:

1. Seamless Upload and Analysis

The process begins with the simple upload of a scientific paper in PDF format. PowerPatent's AI analyzes the document, extracting key elements such as figures, tables, and text, as shown in the screenshots. This automated analysis saves time and reduces the risk of human error, ensuring that all relevant information is captured accurately.

2. Automated Claim Generation

One of the most critical components of a patent application is the claims section, which defines the scope of legal protection. PowerPatent's AI generates a preliminary set of claims based on the content of the uploaded paper. These claims are designed to capture the invention's novelty and inventive step, providing a solid foundation for further refinement by TTO staff or external counsel.

3. Figure Extraction and Annotation

Figures play a crucial role in illustrating an invention's features and functionality. PowerPatent extracts all figures from the PDF and allows users to annotate each figure with a parts list. This [feature](#) ensures that every aspect of the invention is clearly documented and easily understood by patent examiners.

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PowerPatent's collaboration feature enables tight communication among researchers, TTO personnel, and outside counsel. As the lawyer, I get to do the fun and strategic task of monetization planning.”

*Bao Tran, Attorney at
www.PatentPC.com*

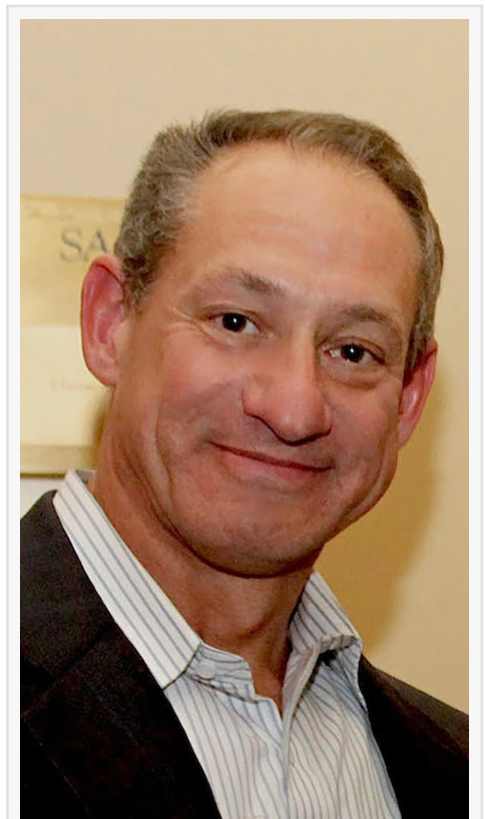
4. Structured Patent Application Drafting

Once the analysis and annotations are complete, PowerPatent organizes the content into a proper patent application format. This includes sections such as background, summary, detailed description, claims, and drawings. The software ensures that all elements are logically structured and compliant with patent office guidelines.

5. Inventor Review and Collaboration

After generating the draft, PowerPatent facilitates

collaboration between inventors, TTO staff, and external counsel through its cloud-based platform. Users can review and edit the draft in real-time, ensuring that all stakeholders have input into the final application before filing.



Ben Dubin, Venture Capitalist
at FuncMed Ventures

Converting scientific publications into patent applications is an essential, albeit complex, process for university technology transfer offices (TTOs) that want to maximize the commercial impact of academic research.

By understanding the distinct requirements of patents compared to publications, selecting research with patent potential, and working closely with researchers, TTOs can translate groundbreaking discoveries into valuable intellectual property.

Incorporating strategic steps, such as thorough prior art searches, well-crafted claims, and leveraging AI tools, streamlines this process. Drafting a patent that balances technical detail with legally sound claims can turn scientific ideas into protected innovations with commercial applications. International filings expand the invention's reach, allowing universities to tap into global markets while enhancing their reputations for innovation.

As the bridge between academia and industry, TTOs have a unique role in protecting and promoting research. This guide equips TTOs with the knowledge to navigate the patenting process effectively, making it easier to support researchers, protect innovations, and ultimately bring more university-developed technology into the world.


Why Convert Publications to Patent Applications?

1. Protecting Novelty and Inventiveness under First-To-File Deadline

Filing a patent application before publishing ensures that the invention's novelty is preserved. This is crucial because any prior public disclosure can be used as prior art against a patent application, potentially invalidating it. By filing a provisional or non-provisional application first,



Patent Attorney Bao Tran of PowerPatent

(12) United States Patent		(10) Patent No.: US 11,748,555 B2	
Tran		(45) Date of Patent: Sep. 5, 2023	
 US011748555B2			
(54) SYSTEMS AND METHODS FOR MACHINE CONTENT GENERATION	8,386,350 B2	2/2013	Flow
	9,090,351 B2	6/2018	Tran
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(71) Applicant: Bao Tran , Saratoga, CA (US)	2008 0004904 A1	1/2008	Tran
	2012 0141959 A1	6/2012	von Ahn Ardhuo
(72) Inventor: Bao Tran , Saratoga, CA (US)	2013 0317994 A1	11/2013	Tran
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			G06F 40/186 715/202
(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.	2019 0340217 A1	11/2019	Tran
	2020 0034432 A1	1/2020	Jun
			(Continued)
(21) Appl. No.: 17/582,852	OTHER PUBLICATIONS		
(22) Filed: Jan. 24, 2022	Zhang et al. "AI-Powered Text Generation for Harmonious Human-Machine Interaction: Current State and Future Directions" 2019 IEEE Smart World, pp. 1-8. (Year: 2019).*		
(65) Prior Publication Data	(Continued)		
US 2022/0237368 A1	Jul. 28, 2022		
Related U.S. Application Data			
(60) Provisional application No. 63/140,774, filed on Jan. 22, 2021.	Primary Examiner — Ariel Mercado		
	(74) Attorney, Agent, or Firm — PowerPatent PatentPC; Bao Tran		
(51) Int. Cl.	ABSTRACT		
<i>G06F 40/137</i> (2020.01)	(57)		
<i>G06F 40/100</i> (2020.01)	Computerized systems and methods are disclosed to generate a document by providing a document structure having one or more seed landmark texts therein, each landmark text including a milestone overview text and a plurality of component texts; from the milestone overview text, generating one or more computer-generated text suggestions to supplement the milestone overview text; combining the milestone overview text with each component text and generating one or more computer-generated component text suggestions; and creating the document by combining the milestone overview, the one or more computer-generated text suggestions, and each component text with corresponding one or more computer-generated component text suggestions.		
<i>G06N 20/00</i> (2019.01)			
<i>G06F 21/10</i> (2013.01)			
<i>G06F 40/30</i> (2020.01)			
(52) U.S. Cl.			
CPC: <i>G06F 40/100</i> (2020.01); <i>G06F 40/137</i> (2020.01); <i>G06N 20/00</i> (2019.01); <i>G06F 21/105</i> (2013.01); <i>G06F 40/30</i> (2020.01)			
(58) Field of Classification Search			
None			
See application file for complete search history.			
(56) References Cited			
U.S. PATENT DOCUMENTS			
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19 Claims, 19 Drawing Sheets			
Provide a document structure having one or more chapters and for each chapter add a seed brief descriptive text for the chapter and add a plurality of sub-plot texts for the chapter			
For each chapter:			
From the seed brief descriptive text, generating one or more computer-generated text suggestions to supplement the seed brief descriptive text to form a second brief descriptive text			
For each sub-plot text, generate one or more computer-generated component text suggestions based on the second brief descriptive text and each component text; and			
Create the document by combining each second brief descriptive text with each component text with corresponding one or more computer-generated component text suggestions			

PowerPatent Issued Patent

TTOs can secure an early filing date, which acts as a safeguard against subsequent disclosures. With the attention paid by TTO personnel on the claims at the time of provisional filing, the case is focused for Section 112 support and description requirements.

2. Strategic Use of Non-Provisional Patent Applications as filed Provisional Applications

Provisional applications offer a cost-effective way to establish an early priority date without the need for formal patent claims or detailed descriptions required in non-provisional applications. They provide a 12-month period during which researchers can refine their inventions and assess commercial viability before committing to the higher costs of a non-provisional application. PowerPatent provides a non-provisional application that can be filed as a provisional to provide life extension and a year to refine the invention before conversion as a non-provisional application. Since the provisional application is already formatted as a patent application due to PowerPatent's transformation, the resulting provisional application can easily and inexpensively be converted to a non-provisional by in-house or outside counsel, extending the TTO budget.

3. Cost Management

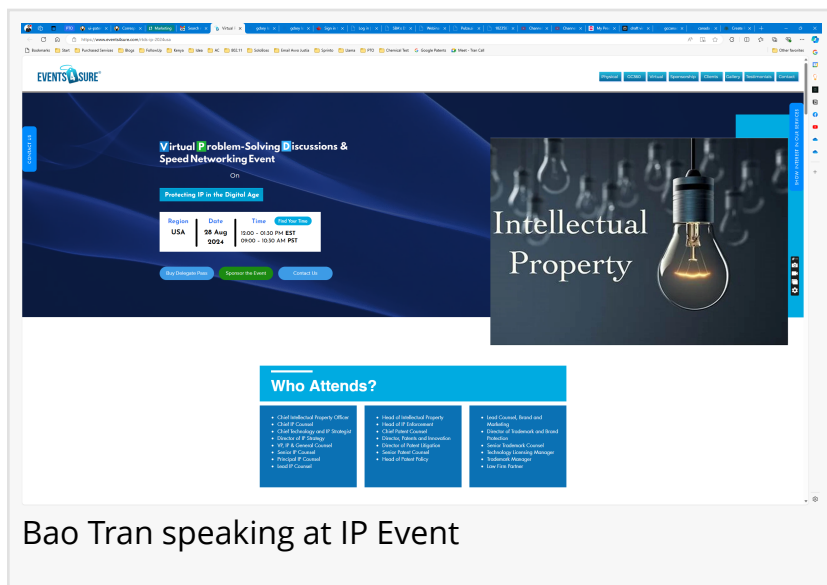
Transitioning publications into provisional applications can significantly reduce upfront costs associated with IP protection. This approach allows TTOs to defer substantial costs until there is greater certainty about an invention's commercial potential.

4. Enhancing Commercialization Potential

Patents are valuable assets in technology transfer, enhancing the attractiveness of university innovations to potential licensees and investors. By securing patent protection early with non-provisional patent protection filed as a provisional application, TTOs can better position their technologies for licensing deals or startup formation, ultimately increasing the likelihood of successful commercialization.

5. Collaborating with Researchers to Clarify Invention Details

Effective collaboration with researchers is essential for translating dense academic research into a patent-ready format. Researchers often have deep technical knowledge but may not fully understand patent requirements. TTOs can involve researchers as early as possible in the patenting process using PowerPatent's collaboration feature that supports tight communication between the TTO team, the inventors, and outside counsel. For TTOs, working with patent attorneys or agents can help refine the assessment process. These professionals understand



Bao Tran speaking at IP Event

patent law intricacies and can offer insights into the invention's patentability. Teams can discuss the goals, key points of the invention, and how it aligns with potential patent claims. Regular communication can keep researchers engaged and invested in the patent process.

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