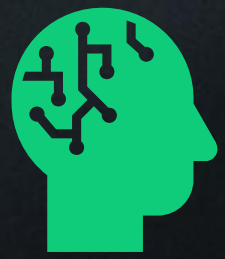
Overview of Patsnap

Topic 13: Commercial IP Database Platforms: Features, Services, and Business Applications

3 main objectives for today's meeting

Know each other better



How Patsnap can make a change to patent offices?

How the rising AI capabilities and AI-Agentic may impact patent offices?

Our footprint in past years

Global employees

1000+

70%

being technology developers

ASEAN is the next strategic growth region for Patsnap

Patsnap's data coverage

320+ Patent Fields × 430+ Innovation Indicator Fields = Patsnap Featured Fields

20 Categories and 3.5Billion+ patent and RD records plus deep processing structural fields with daily update.

Patsnap is not new to AI capabilities

2022

Patent DNA

1st ever in industry

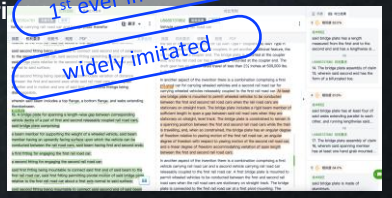
widely imitated

2023

Patent compari

1st ever in industry

widely imitated



2024

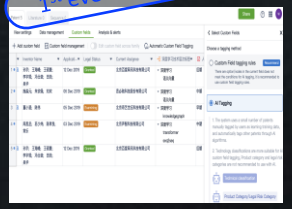
Ready to step into Gen-AI era

Fully equipped with expertise of AI enhancing IP

2021

AI tagging

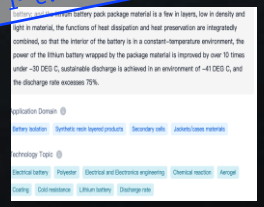
1st ever in industry



2021

Tech Topic & Application Domain Classification

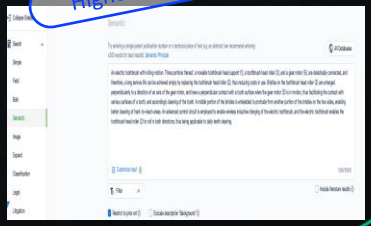
1st ever in industry



2020

Semantic search

Highest hit rate



2015

3D Landscape Analysis

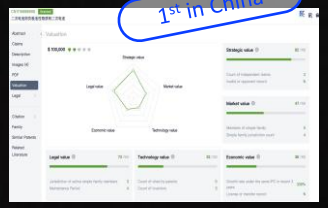
1st ever in industry

First pot of god

2018

Patent Valuation

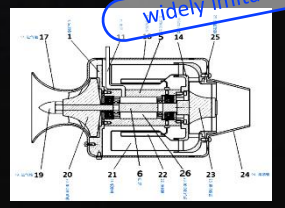
1st in China



2019

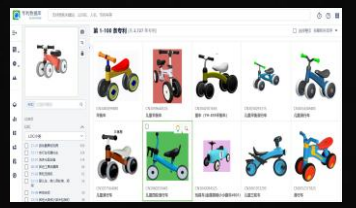
Smart Image

widely imitated

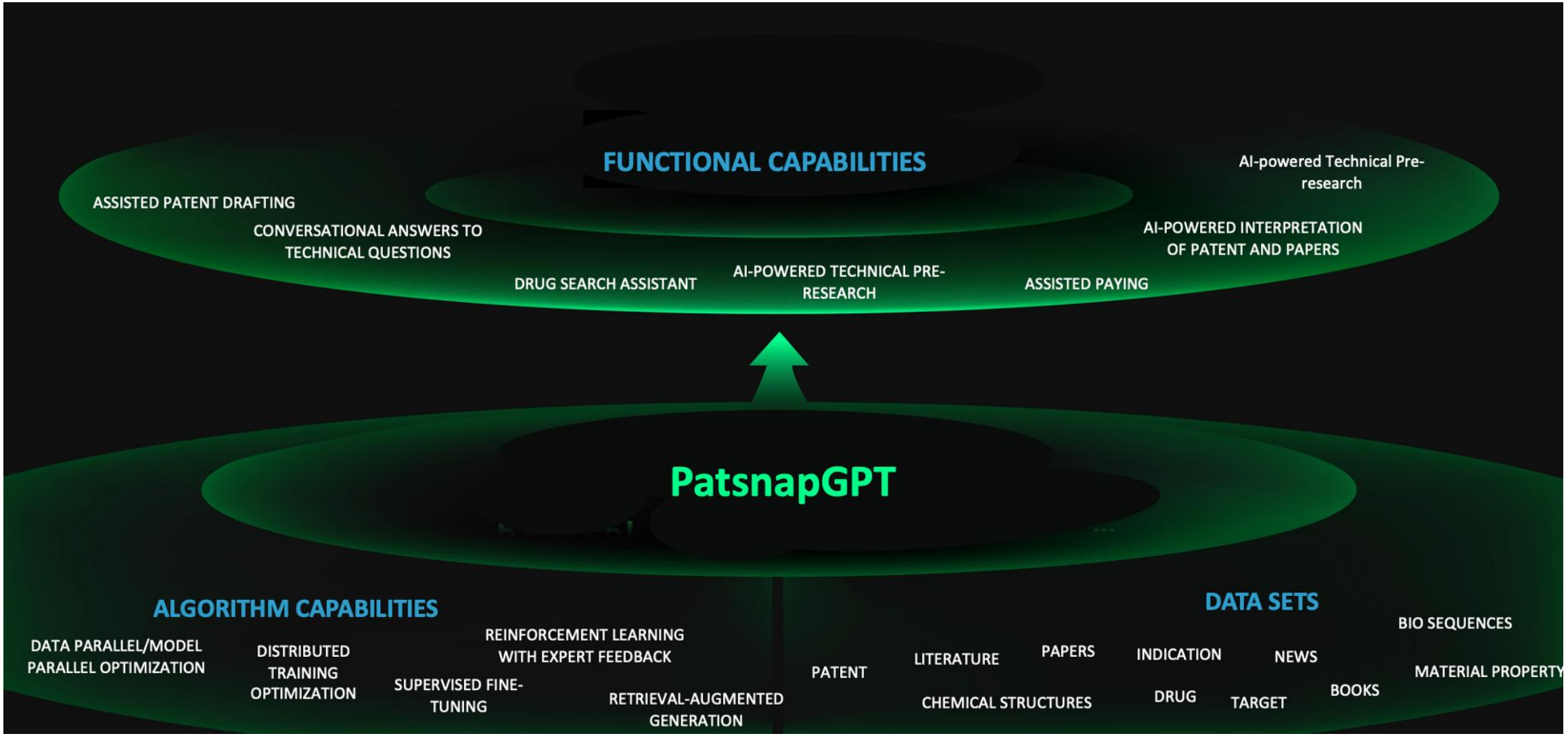


2020

Image Search



Why to Build PatsnapGPT?



Why IP Domain Specificity Matters?

Search for 10 patents on biodegradable golf tees

Hallucinations – made up or incorrect references

Real , verified references

Source:

Hiro	ChatGPT 4o	Gemini Advanced	perplexity pro	Claude 3
Patsnap GPT	**Chat GPT4o**	**Google Gemini**	**Perplexity.AI**	**Claude3 Opus**
US6319156B1	US6319156	US6319156B1	US6319156B1	US5,965,863
EP2303418B1	US5690563	US5690563A	US5690563A	US6,749,525
JP2013512019A	US20130137538 (x3)	US5082264A	US6290616B1	US7,226,369
AT524592A4	US20100062878 (x2)	US5046730A	US5431392A	US7,311,620
JP1992295377A	EP2505236A1	US4846567A	US5186456A	US8,382,614
US20110263353A1	US20110263353 (x2)	US4768870A	US5085432A	US8,597,145
GB2365784A	-	US4629061A	US5085438A	US9,457,245
US20070287559A1	-	US20150064589A1	US5082264A	US9,687,707
Patsnap	Justia Patents Patents Encyclopaedia	Google Patents	Justia Patents Google Patents Freepatentsonline	Not given

Data Security and Privacy Protection of Patsnap LLM

> **Patsnap attaches great importance to customer data and privacy protection. We will not collect users' privacy data for large model training. We will strictly protect the input and output data of users when using Patsnap tools**

User Rights

- Customer prompts and data will not be used for model training
- The owner of the customer's input and output data is the customer themselves
- Customers can choose how long to retain their data

Customer data is under your control

Data Protection

- Customer data is stored encrypted at rest using AES256
- Customer data transmission encryption, TLS1.3 protocol
- Customer data will not be passed on to any third parties

Customer data security protection

Privacy Protection

- The collection of customer information will be clearly stated in the privacy agreement and user consent will be obtained
- The LLM will not collect personal privacy data and sensitive information of customers

No personal privacy data is collected

Our product suite is to provide insights and innovative solutions

patsnap

Analytics

A comprehensive IP intelligence platform designed for IP and R&D professionals.

Eureka by patsnap

AI-Agent *Hub*

Chemical

Brings together patent data plus vital and relevant scientific information into one single and easily searchable interface

Bio

A unique sequence searching platform that connects patent and non-patent literature sequences with therapeutics and biologics.

Synapse

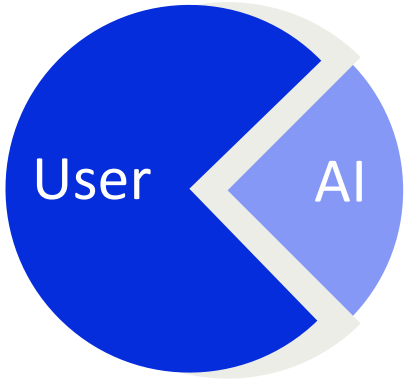
AI-powered platform specifically designed for the pharmaceutical industry. It enables a connected workflow between drug discovery information and development insights


DEMO TIME
MacBook Air

AI Agentic Overview

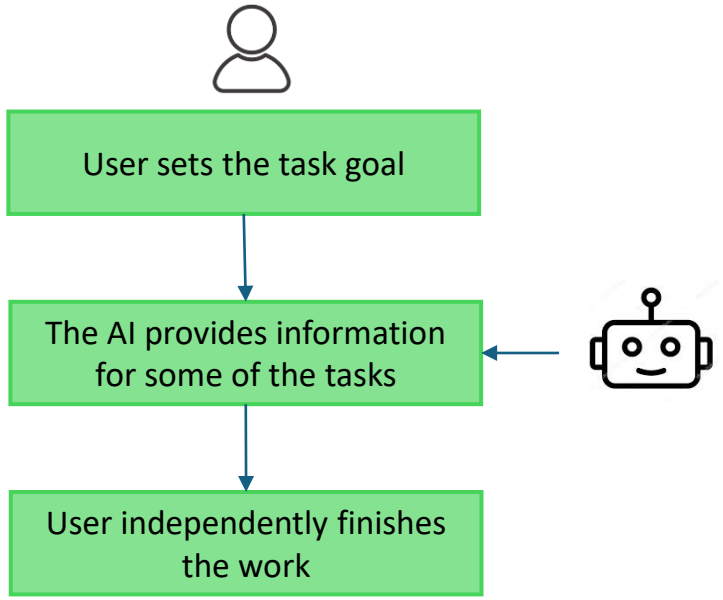
patsnap

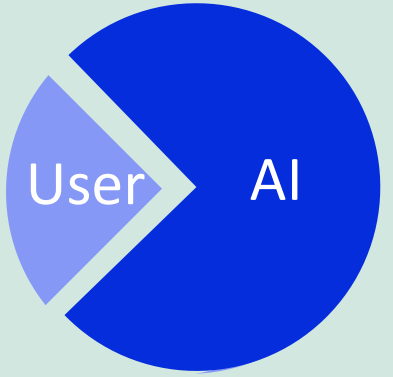
AI tools vs. AI agent



AI Tools **Mode**

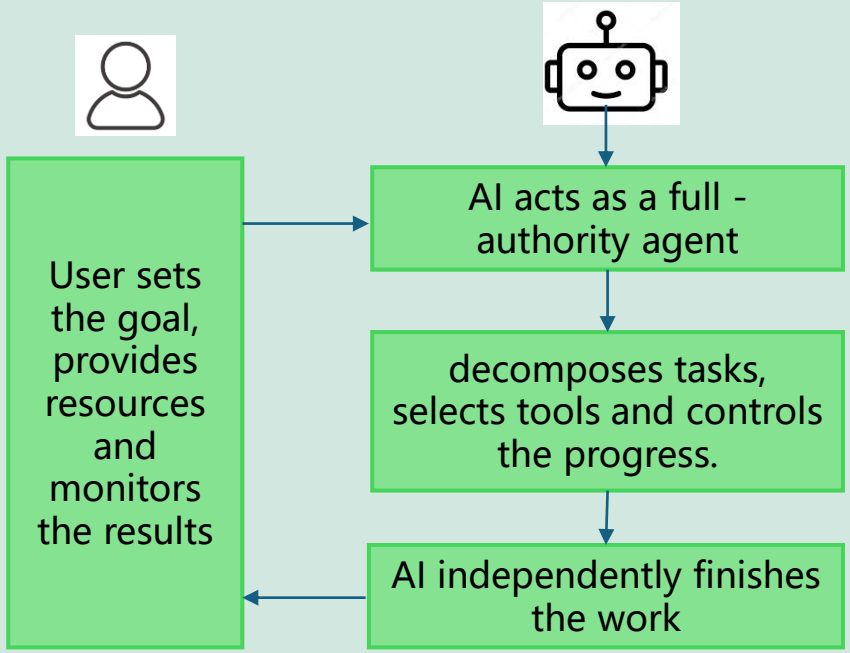
user completes most of the work





AI Agent **Mode**

the AI completes most of the work



AI Tools vs. AI Agents: What's the difference?

Analytics by patsnap + *Human Intervention* = Completed Task

Search 1 — Review 2 — Report 3

- Semantic Search
- AI Tagging
- Exporting
- Field Search
- Workspace
- Custom Analysis
- Literature Search

Analytics by patsnap + *AI Agent* = Completed Workflow

Search 1 — Review 2 — Report 3

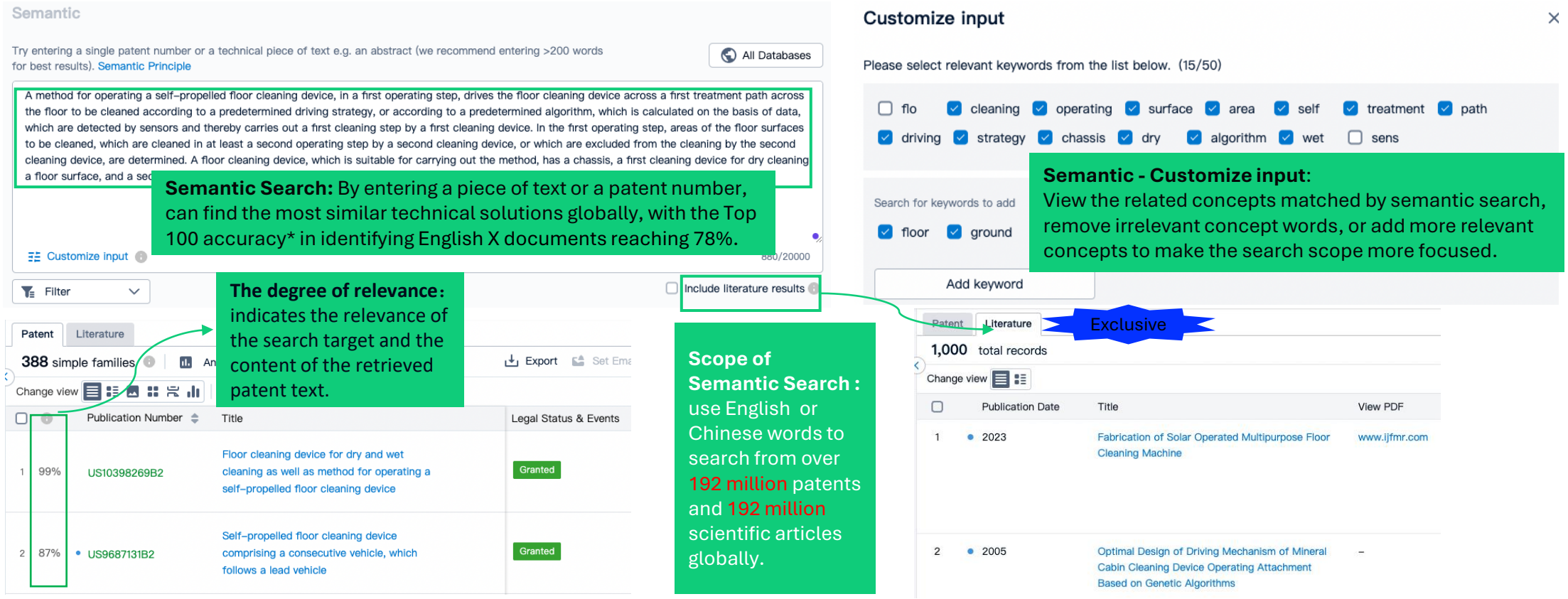
- ✓ Semantic Search
- ✓ Classification search
- ✓ Field Search
- ✓ Patent Analysis
- ✓ Reporting

+ AI Novelty Search = Novelty Check Complete

Novelty Search 1.1

High-precision Semantic Search, easily discover the most relevant patents

Challenge: The semantic algorithm may not be advanced enough or the data coverage may be incomplete, leading to low relevance in search results and a time-consuming process for patent novelty checking.



Advantages: Leading the industry in high-precision semantic search, enhancing the accuracy of the Top 100 to 78% through two types of AI capabilities.

1) Traditional AI algorithm's word vector model 2) Generative AI's LLM semantic understanding

Facilitating users to quickly find the most relevant comparative documents, enhancing the quality and efficiency of novelty and invalidity searches.

***Semantic Top 100 Accuracy: Using a patent number for semantic search, the probability of hitting X documents affecting novelty in the top 100 search results.**

Novelty Search 1.2
High-precision Image Search, easily discover the most relevant patents

Challenge: The industry is highly competitive with a high degree of similarity in the appearance of similar products. Especially in the scenario of product internationalization, it is necessary to protect one's unique design through design patents in advance. However, ordinary databases search for similar appearance patents often suffer from incomplete global data coverage and low precision.

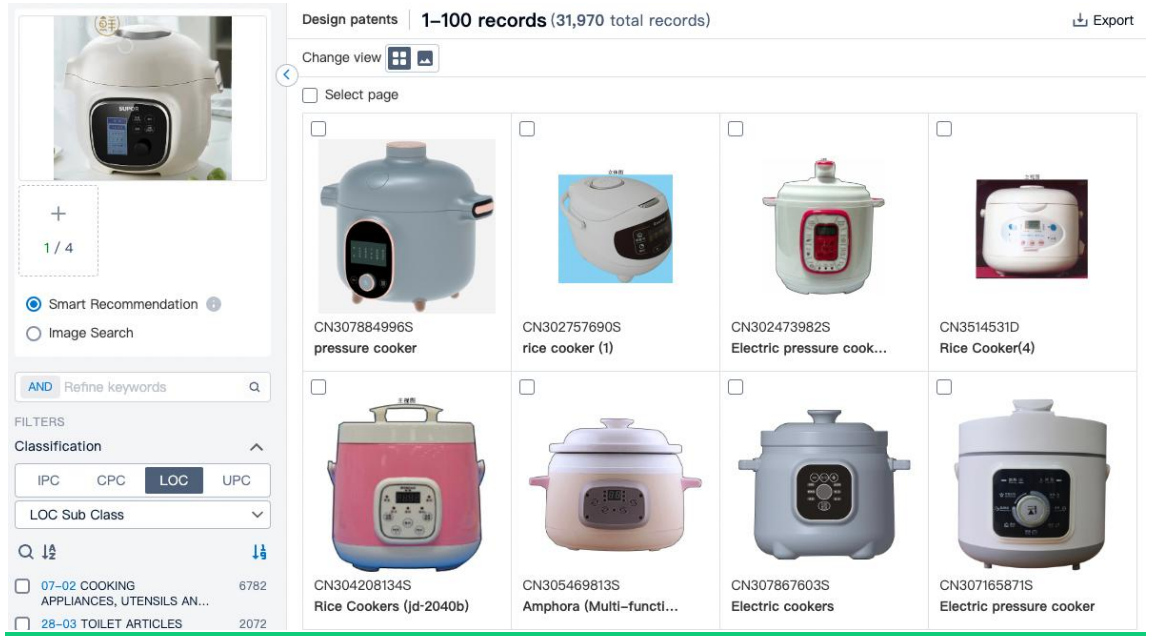
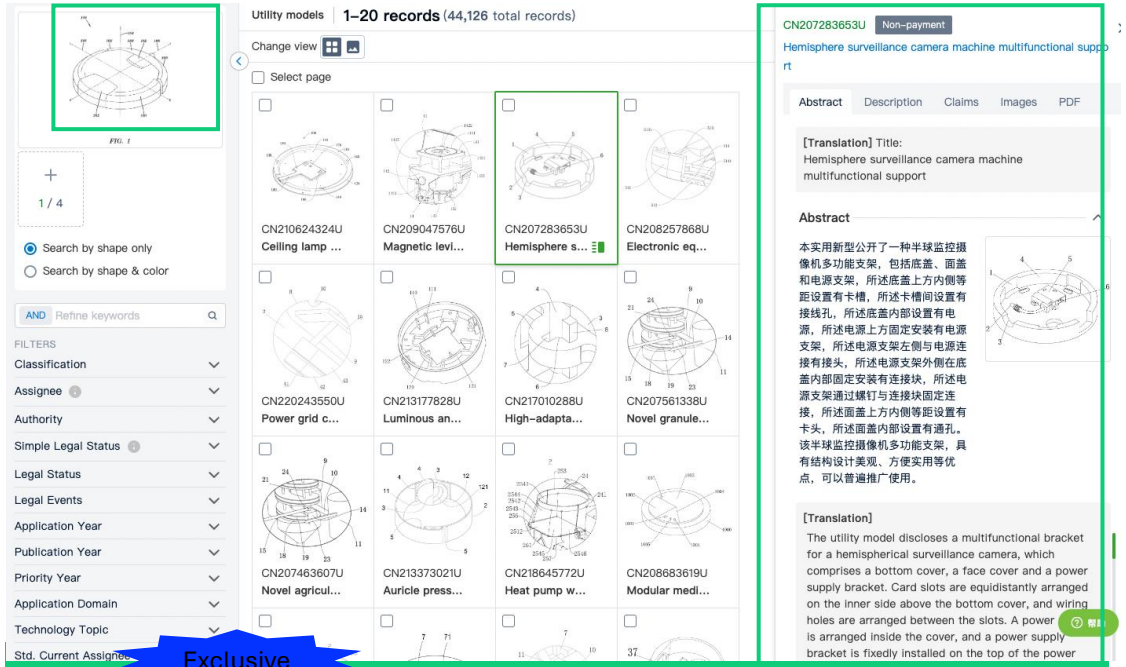


Image Search for Design: AI image algorithms filter out background noise from product images, Finding design patents that are visually similar (physical images) and conceptually similar (line drawings), Multi-image search of over 20 million global design patents, with high relevance of results, and TOP100 accuracy* of up to 73.7%.



Exclusive

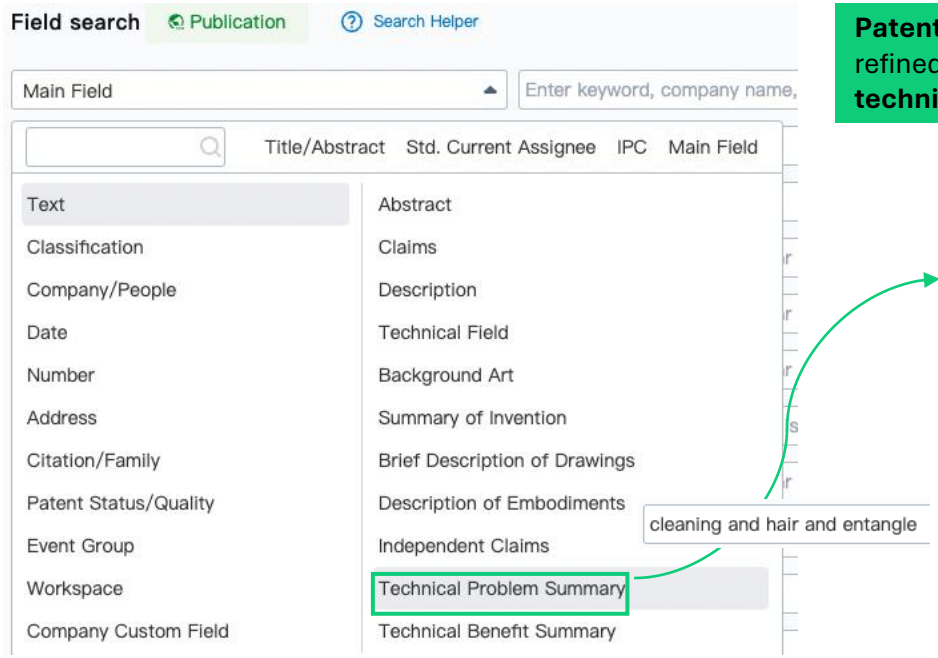
Image Search for Technology:
Industry-first, AI algorithms enable searching through over 30 million utility model patent drawings with images, eliminating the need to construct complex search formulas to find the most relevant technical solutions.

Advantages: Leading the industry with a high-precision image search capability of 73.7%, facilitating the discovery of similar global design and utility model patents, ensuring the stability of design patent rights, and after product launch, able to protect the company's own rights through patents.

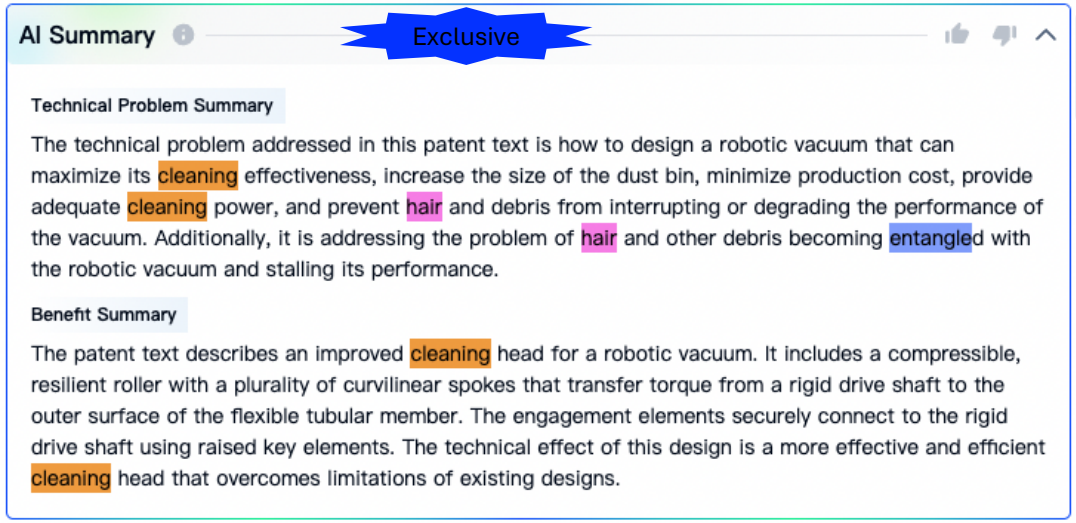
*** TOP100 Accuracy: Refers to the probability of hitting invalidity evidence in the top 100 patents of the search results, using global design patent invalidation cases to test the image intelligent association model.**

Novelty Search 1.3
Empowerment through AI makes Field Search more precise

Challenge: When establishing a search mode, if the search field is missing, or if common keywords are used to search for patents, it may result in a large number of recalled results that are inconvenient for further reading.



Patent DNA: Based on Patsnap PatentGPT, the obscure patent text is transcribed and refined to form easily comprehensible and searchable fields **AI Summary**, such as **technical problems, and technical benefit**, thereby improving the accuracy of search.



Field Search: More than 250 search fields, including text, classification, companies, references & family members, patent status & quality, workspace, corporate-customized fields. For instance, legal events including litigation, reexaminations, national defense decryption, double applications in one case, etc.; the status of the Unified Patent Court in Europe, the legal status of EP designated countries, and other deep-processed feature fields that cater to professional novelty search/invalidity search demands.

Advantage: Exclusive high-quality deep-processed patent fields and AI transcription ability make it easier for users to precisely find the most relevant comparison documents, thus improving the quality and efficiency of search

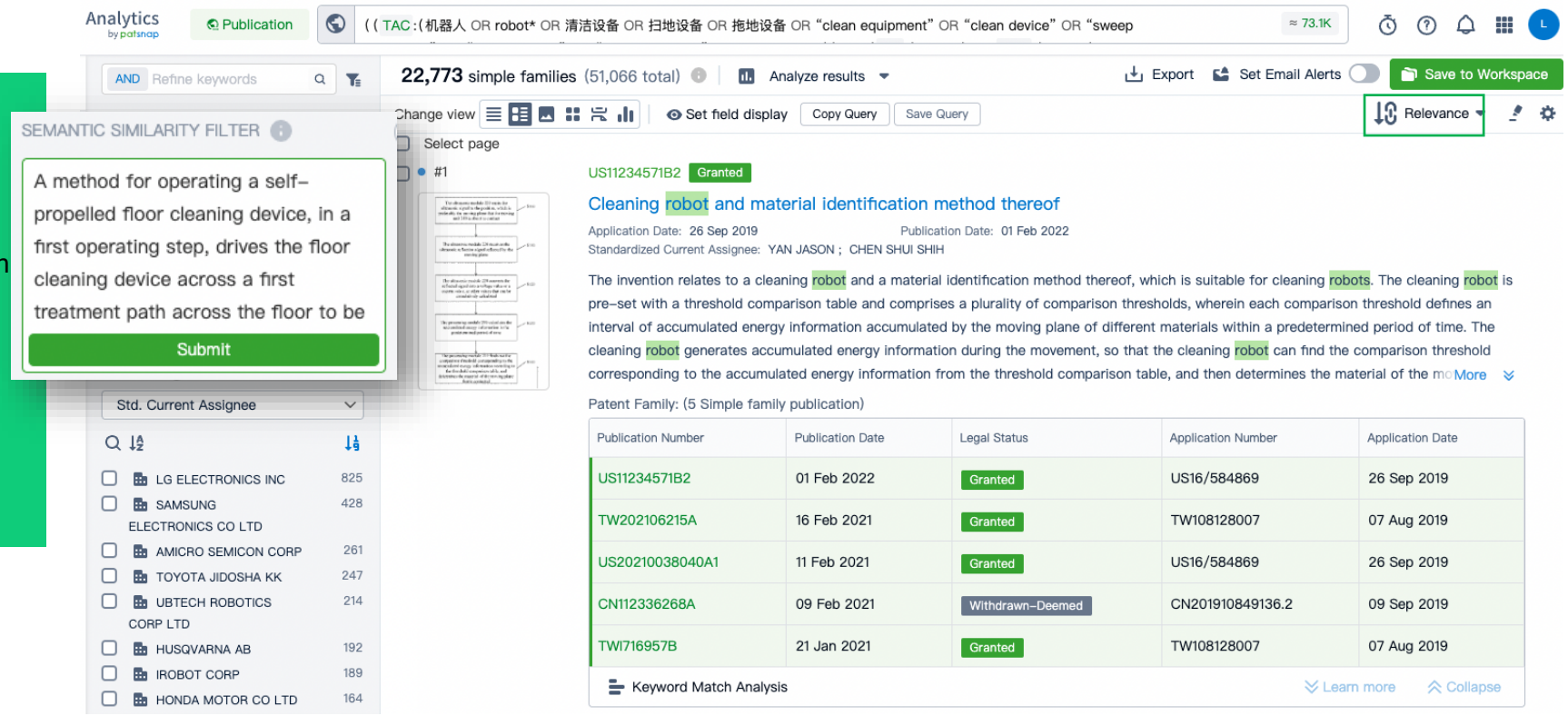
*Patent DNA currently covers patents from China, the USA, and Europe over the past decade.

Novelty Search 2
High-precision Semantic Filtering to enhance the quality and efficiency of patent screening.

Challenge: When dealing with a large number of patents, reading them one by one is time-consuming and laborious. The use of fixed filtering options for selection lacks flexibility, and the inability to filter from the semantics themselves lowers efficiency.

Semantic Filtering:

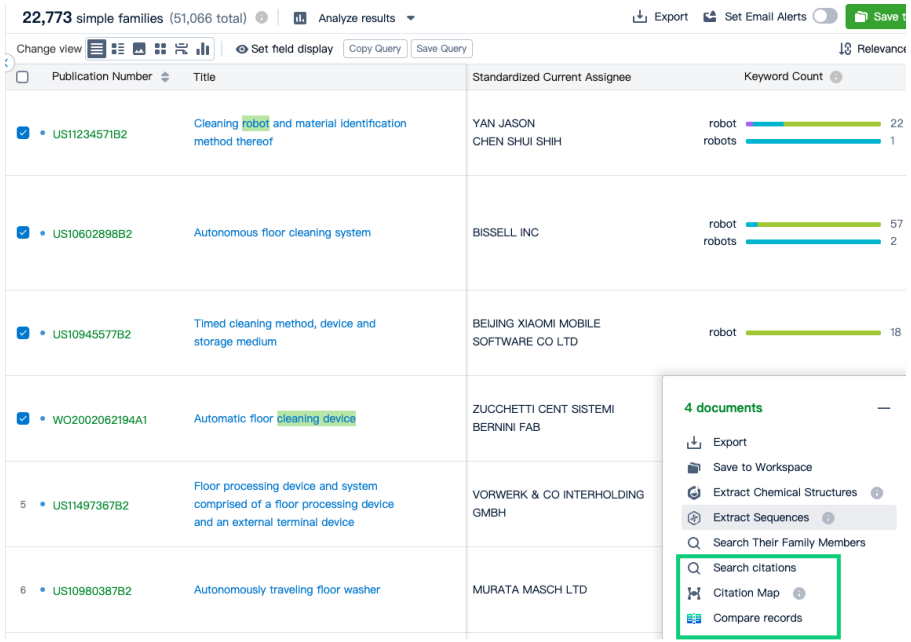
Restricts the search results to a specific batch. It identifies and sorts by semantic similarity from high to low, to display the key patents that are closest to the technical solution. This type of filtering is more targeted and precise.



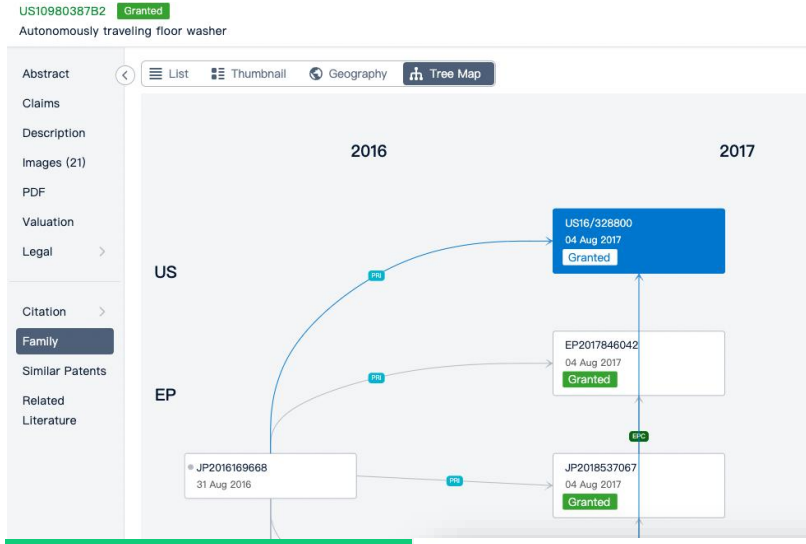
Advantages: By using high-precision semantic filtering during the screening process, it is easier for users to quickly find and prioritize the most relevant patents. This significantly improves the quality and efficiency of patent screening.

Novelty Search 3
Patent Family/Cited references expansion: tracing back to most relevant patents

Challenge: Filtering relevant patents from search results may lead to omissions, and reading each one is time-consuming and painstaking

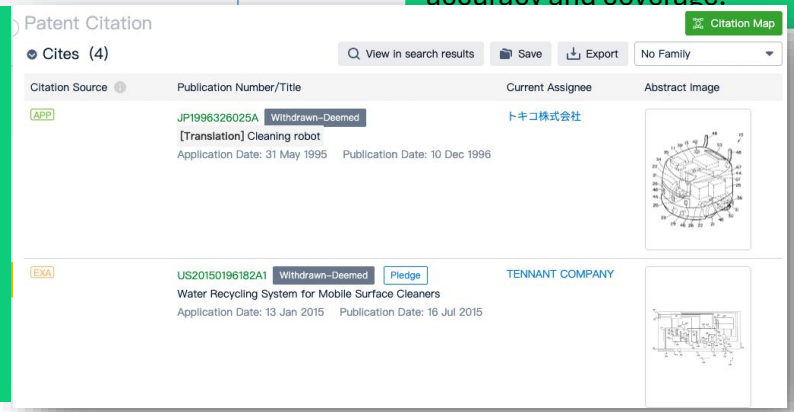


Family/Citations in search patent results:
select high relevance patents from the search results page and track and analyze the most relevant ones.



Patsnap's Family data covers 172 patent offices, for 192 million patents' application numbers, priority rights, PCT applications, EP entries into designated countries, continuation/divisional applications, double applications in one case, etc.
•Reanalysis of patent family relationships, identification, and correction of erroneously associated patent families using semantic technology, improving accuracy and coverage.

Citation data covers 61 patent offices, including:
•Source of citations, applicants and those from examination documents
•Type of citations, X/Y/A types, US classes 102/103;
•Non-patent citations;
•Differentiating between self-citations and by others.



Advantages: By having patent family/citation patents of relevant patents, and globally covering deeply processed citation data, it is easier to find the most relevant patents as comparison documents for patent novelty search;
Compared to INPADOC family (defined by the European Patent Office), Patsnap family increase coverage by including patents not listed in INPADOC, covering double applications in one case, patents designated by the EPO, etc., providing more comprehensive coverage.

AI Novelty Search Agent

What it does

Powered by PatsnapGPT the Novelty Search is designed to mirror the depth of a human-led search by running iterative searches — but at a fraction of the time and cost.

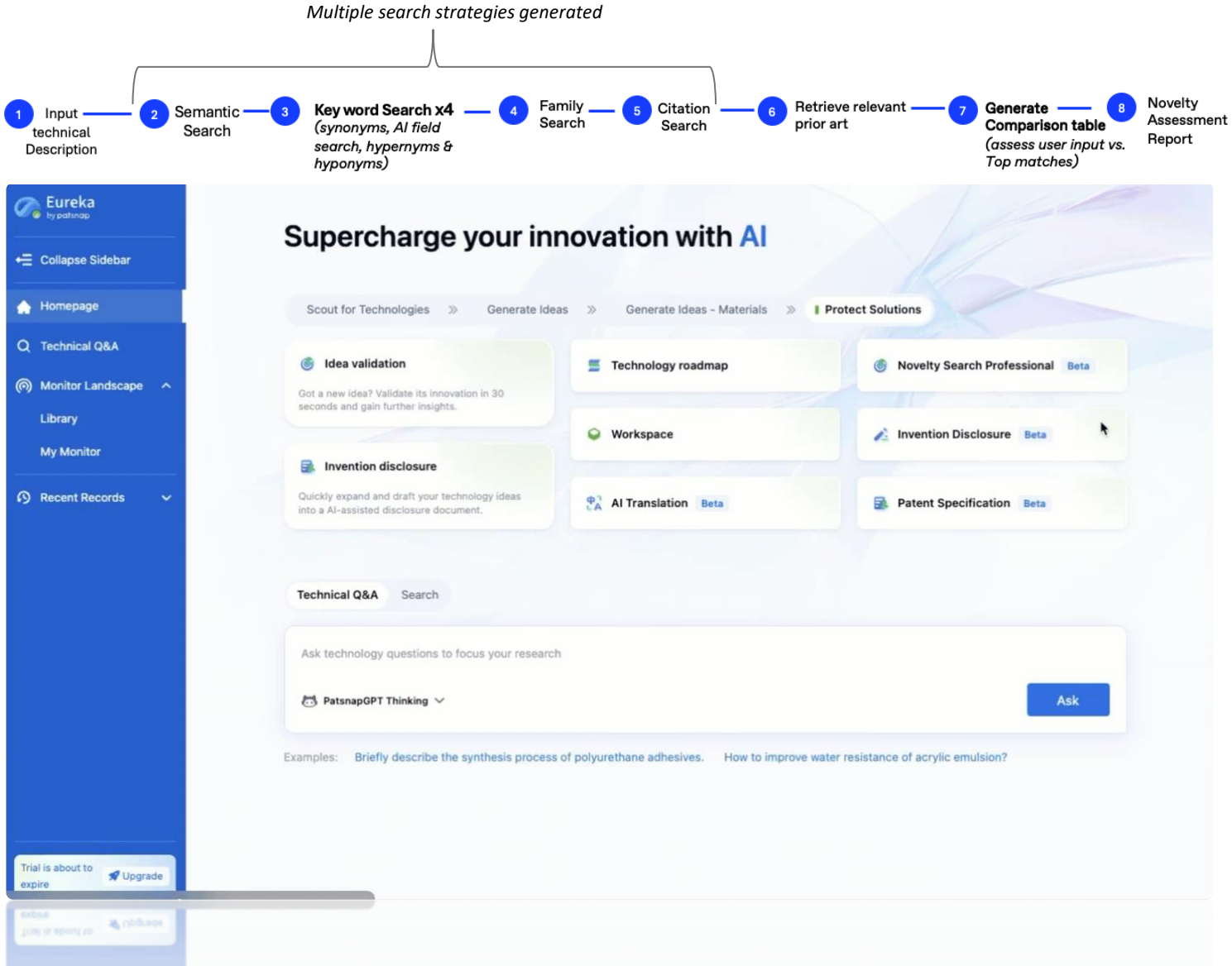
How it works

1. Provide technical description - automatically broken into into technical features technical features
2. Generate multiple search strategies:
   - Semantic search
   - Classification search
   - Keyword search x4 (synonyms, AI field search, hypernyms & hyponyms)
   - Family & citation search
3. Retrieve most relevant prior art
4. Generate comparison table (input vs. top matches)
5. Create final report

Agent output

Agent delivers a comprehensive final report. Each report includes an Overview & Title, a breakdown of the Inventive Features of the Solution, Extracted Technical Features, and a Technical Feature Comparison Table. You'll also find an Overall Reference Comparison with a Similarity Score, followed by a clear Summary of findings.

For transparency and reproducibility, the report includes
Appendix 1: Technical Elements & Synonyms and Appendix 2: Search Strategy.



Thank you!

Contacts:

Kong Ken , kenkong@patsnap.com