

INTERGATOR PATENT SEARCH

Patent search using AI

*Simplify your patent search with INTERGATOR Patent Search
and artificial intelligence*



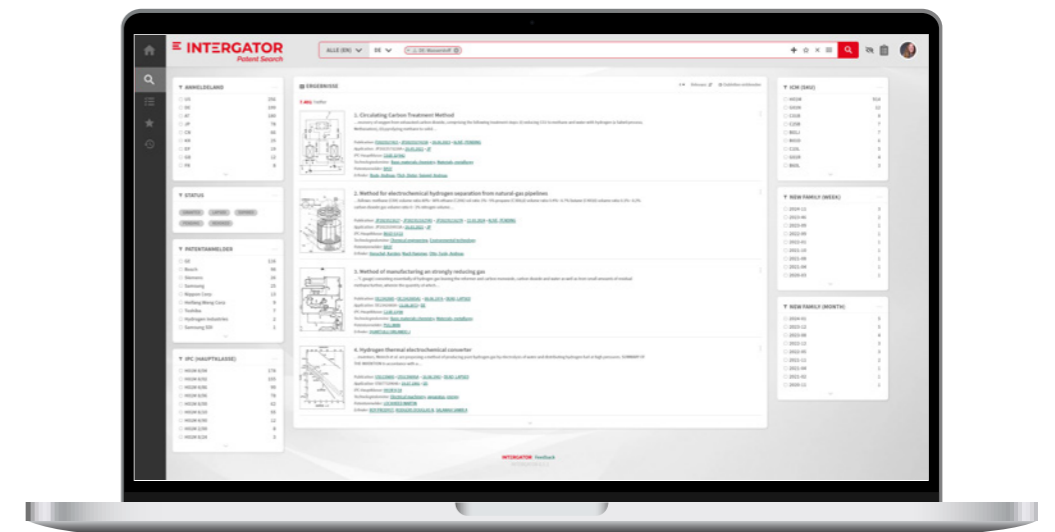
“

The power of artificial intelligence is “so incredible, it will change society in some very deep ways

Bill Gates

The future of patent search

The benefits of AI-based patent search are manifold and revolutionize the traditional research process. Through the use of artificial intelligence and machine learning, patent search can be made significantly more efficient and precise. Instead of relying on keyword-based search methods, AI understands the context and meaning of search queries, leading to more relevant and accurate results. This reduces the number of irrelevant hits and saves valuable time. Additionally, AI-based search enables semantic analysis of patent documents, allowing similar patents to be identified even if different terms are used. This expands the search scope and provides a more comprehensive overview of the state of the art. Overall, AI-based patent search improves the efficiency, accuracy, and relevance of search results and is an indispensable tool for modern innovation processes.



INTERGATOR Patent Search is an advanced platform specifically designed to revolutionize patent research. Utilizing state-of-the-art artificial intelligence, INTERGATOR provides an efficient and precise way to search through a constantly expanding pool of patents. With features such as natural language chat, users can interact directly with patent documents and receive accurate answers to their questions. The modern Patent Viewer allows for a comprehensive and user-friendly view of patents, including powerful search capabilities, semantic analysis, and highlighting of relevant passages. These innovative tools make INTERGATOR Patent Search an indispensable companion for anyone involved in patent research who values efficiency and accuracy.

INTERGATOR Patent Search

DACH (DE) | Stellen Sie eine Frage

NEUHEITSRECHERCHE

Bei der Neuheitsrecherche wird nach Dokumenten gesucht, die die Neuheit einer Anmeldung beeinträchtigen könnten. Dabei wird der Text der Erfindungsbeschreibung oder der Entwurf der Anmeldung verwendet. Die fachlichen Schwerpunkte werden durch die Einbeziehung relevanter Schlagwörter verstärkt.

EINSPRUCHSRECHERCHE

Bei der Einspruchsrecherche wird nach Dokumenten gesucht, die zur Anfechtung eines erteilten Patents verwendet werden können. Ausgangspunkt ist die Patentnummer (PN) des Patents, gegen das Einspruch eingeleitet werden soll. Es werden nur Dokumente berücksichtigt, deren Prioritätsdatum gleich oder älter ist. Schriften des gleichen Anmelders werden optional bevorzugt. Die WIPO-Technologiedomänen können als Filter für IPC-Klassen verwendet werden. Die fachlichen Schwerpunkte werden durch die Einbeziehung relevanter Schlagwörter verstärkt.

FTO RECHERCHE

Bei einer Freedom-to-Operate-Analyse wird nach Patenten recherchiert, um potenzielle Hindernisse zu erkennen, die die Entwicklung, Produktion und Markteinführung eines neuen Produkts in einem bestimmten Gebiet beeinträchtigen könnten.

ÜBERWACHUNGSRECHERCHE

Bei der Überwachungsrecherche wird die Veröffentlichung erster Anmeldungen (einer einfachen Patentfamilie) in einem bestimmten Technologiefeld überwacht. Ausgangspunkt sind Texte oder Publikationen, die das zu überwachende Technologiefeld beschreiben. Zu den einbezogenen Publikationen werden zusätzlich deren Familienmitglieder und deren Zitate herangezogen. Die WIPO-Technologiedomänen können als IPC-Klassenfilter-Bündel gesetzt werden. Die fachlichen Schwerpunkte werden durch die Einbeziehung relevanter Schlagwörter verstärkt. Der Überwachungsradius kann durch Auswahl bestimmter Ämter und/oder Anmelder eingeschränkt werden.

★ DOKUMENTE

- Verfahren und Vorrichtung zum Abscheiden von Wasserstoff aus ...
- Verfahren zur Gewinnung von schwerem Wasserstoff anlässlich ...
- Verfahren zur Speicherung von Energie in Form von Hydrazincarbonat
- Anordnung und Verfahren zur Energieversorgung von Schiffen
- Verfahren und Vorrichtung zur Herstellung von Wasserstoff
- Verfahren zur Herstellung von Wasserstoff oder Wasserstoff-Stick ...

★ SUCHEN

- Wasserstoff Antriebe für Hochseeschiffe
- Energiequelle für Unterwasserschiffe
- DMFC Brennstoffzelle
- Membran-Elektroden-Einheit
- Direktoxidationsbrennstoffzelle für konvektionsfreien Transport
- Mikrobrennstoffzellen
- Verbundmembran für Polymerelektrolytbrennstoffzelle
- Kathodendiffusionschicht
- Methanolsensor
- Polymergemisch Elektrolytmembran hohe Temperatur

○ DOKUMENTVERLAUF

- Polymergemisch-Elektrolytmembran zur Verwendung bei hoher ...
- Direkt-Alkohol-Brennstoffzelle und Direkt-Alkohol-Brennstoffzellen ...
- Verfahren zur Ermittlung von Überspannungen in Brennstoffzellen ...
- Membranelektrodenanordnung für eine Direktoxidationsbrennstoff ...
- Direktoxidationsbrennstoffzellensystem
- Verfahren zur Inbetriebnahme einer polymer-elektrolyt-Membran ...

○ SUCHVERLAUF

- DACH (DE): Verfahren zur Abscheidung eines Katalysators
- DACH (DE): Brennstoffversorgungseinrichtung für Direkt-Methanol ...
- ALLE (EN): polymer electrolyte membrane
- ALLE (EN): thermal fluid management
- ALLE (EN): cell using glycol as fuel
- DACH (DE): Membran Elektroden Einheit
- DACH (DE): DMFC Mikrobrennstoffzelle
- ALLE (EN): SOFC Brennstoffzelle
- ALLE (EN): Solid Oxide Fuel Cells
- DACH (DE): PEFC
- ALLE (EN): fuel cell system
- ALLE (EN): high temperature SOFC
- ALLE (EN): multi stage reformer structure
- ALLE (EN): control method PEFC
- DACH (DE): Polymerelektrolytmembran
- DACH (DE): Stapeltemperatur Brennstoffzelle

Patent search with AI

INTERGATOR's AI-based patent search utilizes advanced artificial intelligence and machine learning to revolutionize the search for relevant patents. Unlike traditional search methods based on simple keyword matching, our AI analyzes the context and meaning of your search queries. This allows for a deep semantic analysis of patent documents, enabling not only direct matches but also thematically related patents to be identified. This innovative technology understands the nuances of your inquiries and delivers precise results that go beyond traditional keyword searches.

One of the greatest benefits is increased efficiency. While traditional methods are often time-consuming and complex, AI-based search enables quick and accurate results. Semantic analysis also enhances accuracy by minimizing irrelevant hits and highlighting the most relevant patents. This not only saves time but also enhances the quality of research. Additionally, users can gain deeper insights and conduct more comprehensive analyses through AI-powered search, supporting decision-making and strategic planning.

By leveraging state-of-the-art artificial intelligence and machine learning, the platform enables precise and context-based search capabilities that go far beyond traditional keyword methods. Features such as the interactive Patent Viewer and the ability to chat directly with patent documents facilitate in-depth analysis and rapid comprehension of essential information. The list and save functions ensure that your research remains structured and organized, while specialized research assistants generate targeted queries, saving you valuable time and effort.

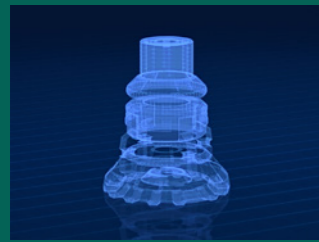
INTERGATOR is an established and proven product that has earned an outstanding reputation in the world of patent research over many years. Originally stemming from a project with the German Patent and Trademark Office (DPMA), INTERGATOR combines extensive experience and profound expertise with cutting-edge technology. This close collaboration with one of the leading patent authorities has contributed to the development of INTERGATOR into a highly reliable and powerful platform that meets the high demands and complex requirements of patent research. With continuous improvements and a clear focus on innovation, INTERGATOR has established itself as an indispensable tool for businesses and research institutions.

Cross-lingual research

Regardless of the language in which you enter your search query, our platform delivers relevant results from various linguistic domains. Thanks to specially trained AI models, INTERGATOR recognizes the semantic similarity between terms in different languages without the need for manual translation. This allows you to seamlessly switch between German, English, and other languages, ensuring that no important patents escape your attention. This cross-lingual functionality expands your research horizon, enabling you to gain more comprehensive and global insights.

RESEARCH ASSISTANTS

The research assistants provided by INTERGATOR are specially designed tools to help you efficiently and effectively conduct complex patent searches. With a range of assistants such as novelty search, opposition search, Freedom-to-Operate (FtO) analysis, and monitoring search, INTERGATOR offers tailored solutions for various needs and requirements. These assistants generate detailed and precise queries from minimal input, apply typical filters, and optimize your search queries to deliver the best results. By utilizing these specialized tools, you can save valuable time and significantly enhance the quality of your patent searches.



Novelty search

In a novelty search, the goal is to specifically look for documents that could affect the novelty of a patent application. The text of the invention description or the draft of the application serves as the starting point for conducting a comprehensive search. By incorporating relevant keywords, the research focuses on specific areas of expertise.



Freedom To Operate search

In a Freedom-to-Operate (FtO) analysis, research is conducted on existing patents to identify potential legal obstacles that could affect the development, production, and market launch of a new product in a specific geographical area.



Opposition search

In an opposition search, the aim is to specifically search for documents that can be used to challenge a granted patent. The starting point of this search is the patent number of the patent against which opposition is to be filed. Only documents with a priority date equal to or older than that of the disputed patent are considered.

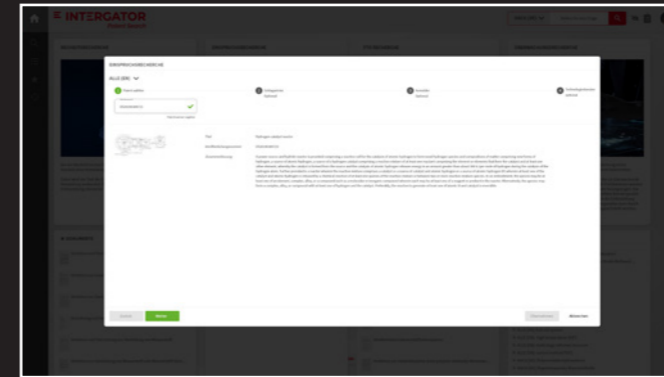


Monitoring search

In a monitoring search, the publication of initial patent applications in a specific technological field is continuously monitored. The starting point of this search is texts or publications that describe the technological field to be monitored in detail.

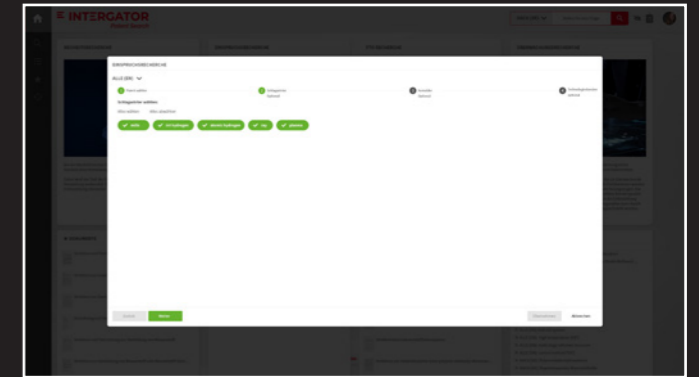
5 STEPS TO BETTER RESEARCH

Explaining the Opposition Search Assistant Using an Example



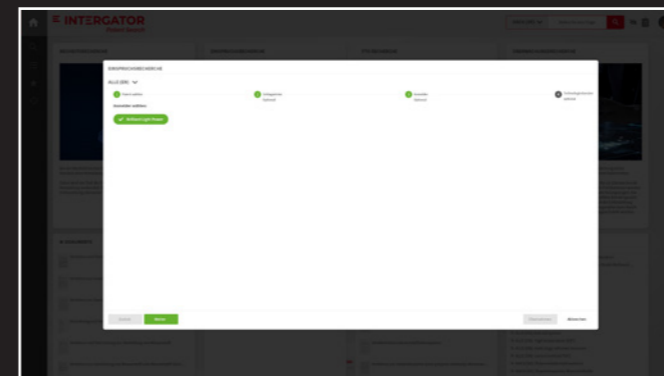
1: Entering the patent number

The opposition search begins with entering a patent number. INTERGATOR Patent Search first checks whether it is a valid number and provides basic information about the corresponding patent. This check ensures that the search starts on a solid foundation.



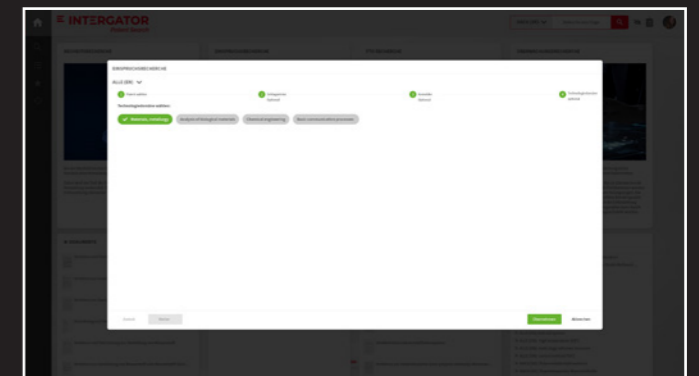
2: Adding essential terms

To enhance the search, INTERGATOR provides essential terms from the patent document that can be added to the query. These terms are thematically relevant and increase the precision of the search query by focusing on the central aspects of the patent document.



3: Adding the applicant

In the next step, the applicant of the patent is included in the search query. This further enhances the query and allows for a more targeted search for relevant documents associated with the applicant. This enables the identification of similar or related patents from the same applicant.



4: Technology domains

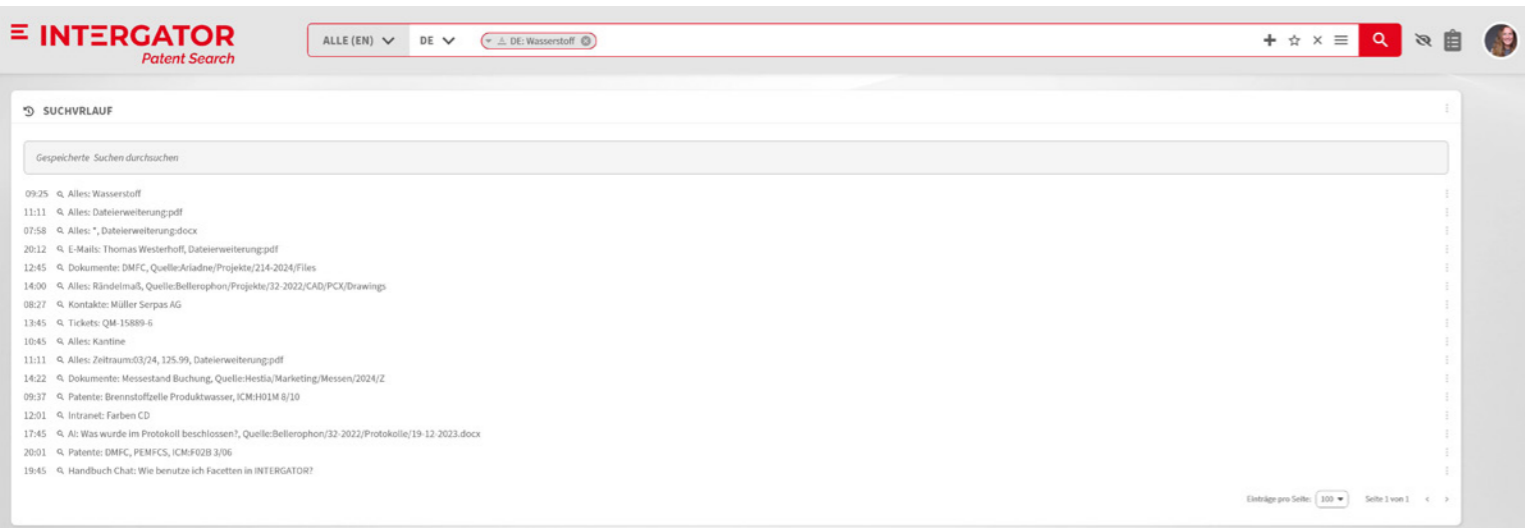
Technology domains can be added to further enhance the search query. These domains, based on IPC classes, help to focus the search on specific technological areas. This reduces irrelevant hits and ensures that the results are in a relevant context.

SAVING FAVORITES

Patent documents and researches can be permanently saved, allowing you to access them anytime and use them as a basis for future research. This saves time and increases the efficiency of your patent searches.

The ability to save patents and search queries offers numerous advantages, significantly enhancing your research processes. By being able to permanently save search queries, you can access your previous research at any time and use it as a foundation for new analyses. Search histories and viewed patents are temporarily saved, allowing for quick tracking and continuation of your work. These features save time and increase productivity by eliminating the need to start from scratch each time. Additionally, structured storage helps prevent important information from being overlooked and keeps it readily available.

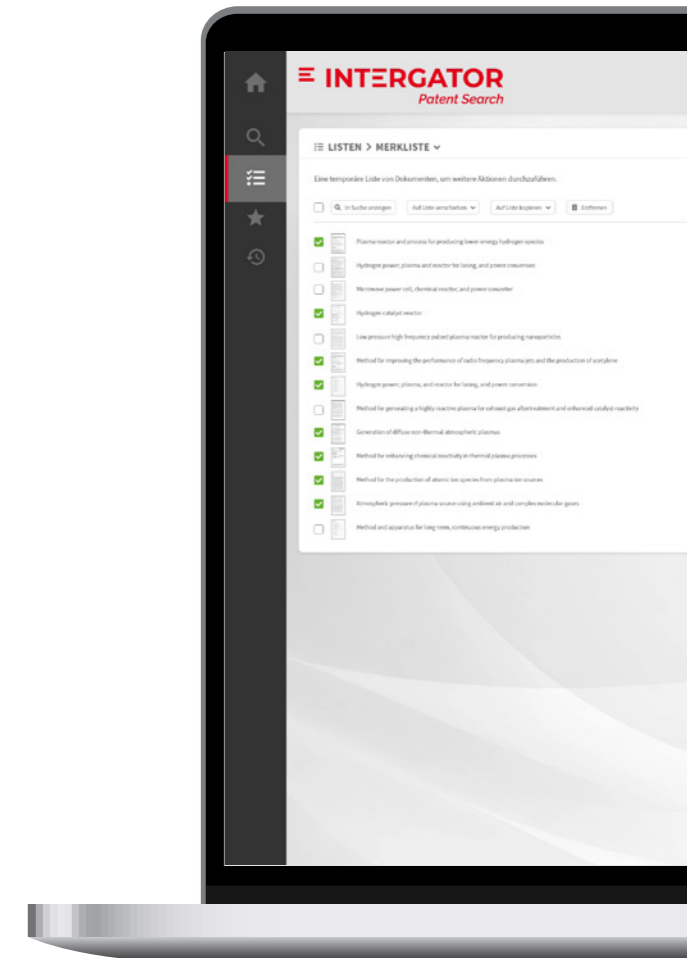
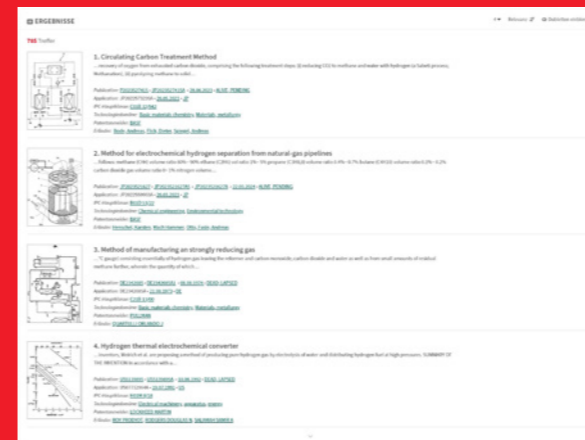
Another advantage of saved patents is the ability to interact with them through the GPT-LLM (Language Learning Model) or generate summaries. This opens up entirely new dimensions in interacting with your research findings. By chatting with saved patents, you can ask specific questions and receive detailed answers that provide deeper insights into the patents. Similarly, you can instantly generate precise summaries of saved documents, greatly facilitating the analysis and understanding of complex patent documents. These innovative features help you work more efficiently and quickly access the desired information.



SAVING RESULTS

INTERGATOR Patent Search offers diverse list and save functionalities to help you organize your patent searches in a structured and orderly manner. These features allow you to save found patents and searches for later use as a basis for new research.

The list functions of INTERGATOR provide you with a structured and efficient way to organize your patent searches. With these features, you can create individual lists where found patents are collected and categorized. These lists not only enhance clarity but also facilitate easy re-usability. You can save your results in thematically organized lists and use them as references or starting points for future research. This simplifies the management of extensive patent searches and ensures that you always maintain an overview of your valuable information.



CHATting WITH SEARCH RESULTS

Through the use of modern Language Learning Models (LLMs), you can ask your questions in natural language and receive precise and context-sensitive answers. This functionality revolutionizes traditional patent research by providing a user-friendly and intuitive interface. Whether you need specific details about a patent or want to conduct a comprehensive analysis, natural language chat makes it easy for you to quickly and efficiently obtain the information you need.

On the one hand, you can gain deeper insights by asking targeted questions and receiving detailed answers without having to search through documents for a long time. On the other hand, this feature enables faster and more precise evaluation of patent documents, significantly increasing the efficiency of your research. Additionally, through the chat function, you can automatically generate summaries of the patent documents, helping you quickly grasp the essential contents.

CHAT

Welche spezifischen Vorteile bietet die Verwendung einer sulfonierten Polysulfonmembran in dieser Brennstoffzelle?

Die Verwendung einer sulfonierten Polysulfonmembran in dieser Brennstoffzelle bietet mehrere Vorteile. Erstens besitzt sie eine hohe Protonenleitfähigkeit, die den Ionentransport zwischen Anode und Kathode effizienter macht und somit die Gesamteffizienz der Brennstoffzelle verbessert. Zweitens ist die Membran chemisch und thermisch stabil, was ihre Einsatzfähigkeit in anspruchsvollen Bedingungen erhöht. Drittens sind sulfonierte Polysulfonmembranen kostengünstiger als perfluorierte Polymermembranen wie Nafion®, was die Gesamtkosten der Brennstoffzelle senkt. Außerdem bietet die Membran eine niedrige Permeabilität für Reaktantengase, was das Risiko von Cross-Over-Phänomenen reduziert und die Leistung der Brennstoffzelle erhöht. Schließlich ermöglichen Anpassungen der Membranstruktur eine optimale Feinabstimmung der Ionenaustauschkapazität und Wasseraufnahme.

ZUSAMMENFASSUNG

Das Patente beschreiben Brennstoffzellen und Membran-Elektroden-Anordnungen (MEA), die eine sulfonierte Polysulfonmembran umfassen. Diese Membranen bieten mehrere Vorteile gegenüber herkömmlichen Membranen, darunter hohe Protonenleitfähigkeit, chemische und thermische Stabilität sowie Kosteneffizienz. Die Brennstoffzellen nutzen diese Membranen, um effizient chemische Energie aus Wasserstoff in elektrische Energie umzuwandeln.

Die Membran-Elektroden-Anordnung besteht aus einer Anode, einer Kathode und einer dazwischenliegenden Polymerelektrolytmembran. Diese Membran enthält ein sulfoniertes Polysulfonpolymer, das Protonen effizient leitet und gleichzeitig eine niedrige Permeabilität für Reaktantengase wie Sauerstoff und Wasserstoff aufweist. Dies minimiert das Risiko von Cross-Over-Phänomenen und erhöht die Leistungsfähigkeit der Brennstoffzelle.

Zusätzlich zur hohen Protonenleitfähigkeit und Stabilität ist die Membran kostengünstiger als perfluorierte Alternativen wie Nafion®. Die Membran ist flexibel anpassbar, was es ermöglicht, die Ionenaustauschkapazität und Wasseraufnahme optimal zu steuern, um die besten Betriebsbedingungen zu gewährleisten. Die Brennstoffzelle eignet sich besonders für Anwendungen, bei denen Effizienz und Stabilität unter anspruchsvollen Bedingungen erforderlich sind.

Asking a Question

INTERGATOR Patent Search leverages modern LLMs to process natural language queries. You can ask your questions in natural language, and the AI provides precise and context-sensitive answers. This facilitates research and saves valuable time.

What are the benefits of polysulfone membranes?

Receiving an Answer

Ask questions about specific patents and instantly receive relevant information and explanations. This enables a deeper and interactive analysis of the patents.

The use of a sulfonated polysulfone membrane in this fuel cell offers several advantages. It has high proton conductivity, which makes ion transport between the anode and cathode more efficient, thereby improving the overall efficiency of the fuel cell.

CHATting IN THE PATENT VIEWER

In the Patent Viewer, you can also chat with individual patent documents and request summaries. This feature allows for a detailed analysis and better understanding of the specific contents of each patent.

BRENNSTOFFZELLE UND MEMBRAN-ELEKTRODENANORDNUNG

DE 602 12 209 T2 2007.04.19

FIG. 2

FIG. 3

FIG. 1

Patentfamilie

Chat

Welche spezifischen Vorteile bietet die Verwendung einer sulfonierten Polysulfonmembran in dieser Brennstoffzelle?

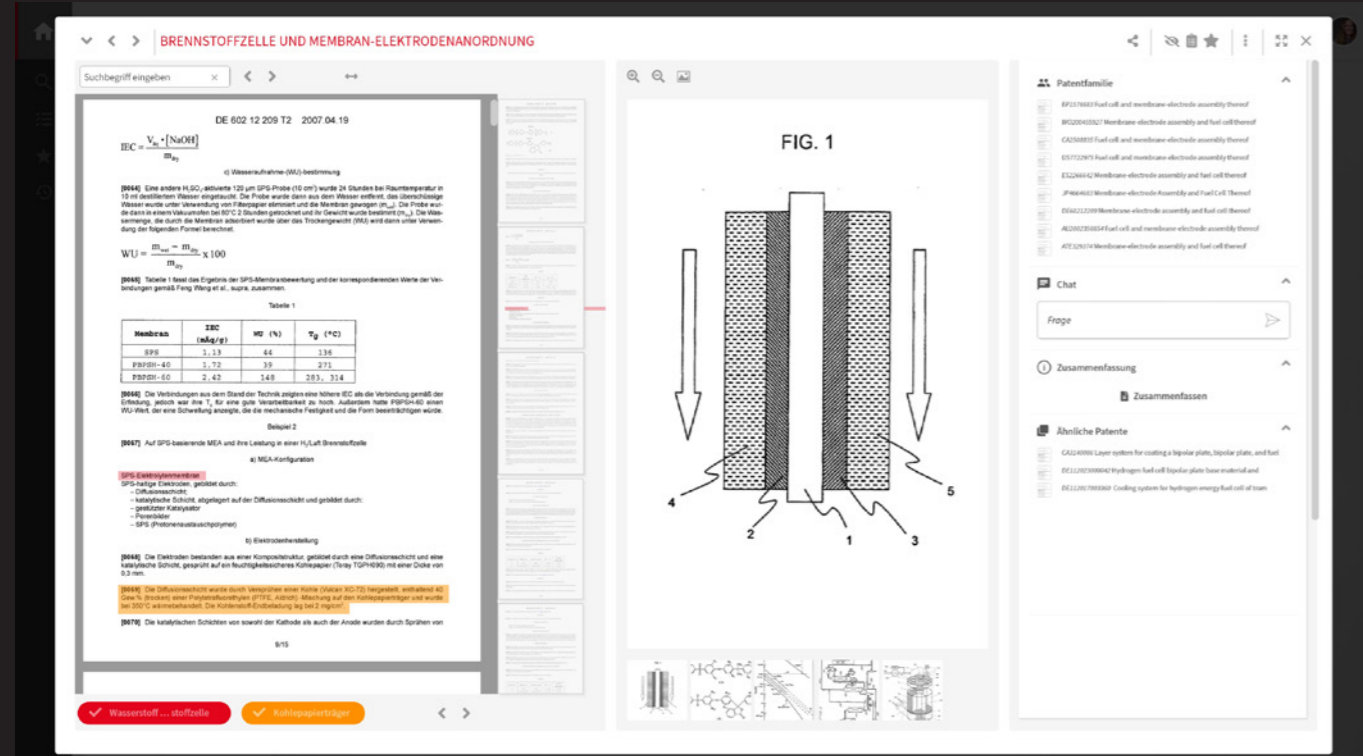
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Zusammenfassung

Zusammenfassen

Instead of laboriously flipping through lengthy documents, you can simply enter your questions in natural language and receive relevant answers immediately. This intuitive way of gathering information not only saves time but also facilitates understanding of complex technical details. This is particularly useful when quick decisions need to be made or when specific information about a patent is needed without reading the entire document in detail.

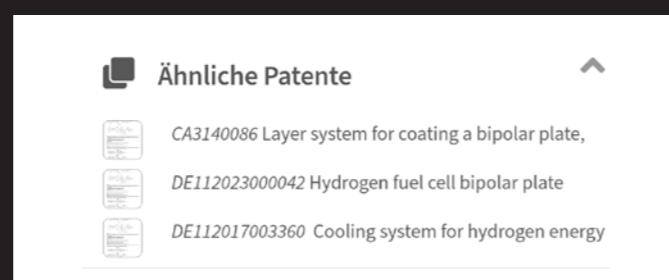
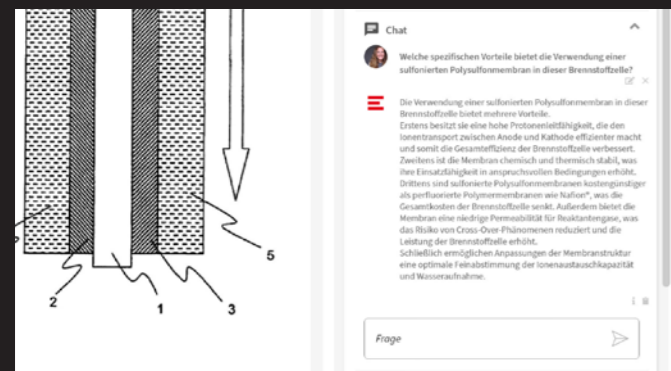
The use of generative AI in patent research offers additional significant advantages. By automatically generating summaries, you can quickly grasp the essential contents of a patent document and focus on the key points. This greatly improves the efficiency of your research and enables a rapid assessment of the relevance of a patent to your needs. Furthermore, generative AI helps you to recognize connections and relationships between different patents that may not be immediately apparent.



PATENT VIEWER

The comprehensive and user-friendly view for patent documents

The Patent Viewer is an integrated feature of INTERGATOR Patent Search, providing a comprehensive and user-friendly view for individual patent documents. This feature requires no additional software or plugins and works natively within the platform. With the Patent Viewer, you can directly view patent documents, significantly simplifying research and analysis. The clear and structured presentation of the documents allows you to quickly grasp relevant information and analyze it effectively. This makes the Patent Viewer an indispensable tool for your patent searches.



The Patent Viewer offers a variety of additional features that make your research even more efficient. This includes a powerful search function within the patent documents, allowing you to quickly find specific terms and topics. The semantic analysis identifies contextual relationships and shows you similar patent documents that are thematically relevant. A highlighting function highlights the locations of your search terms, making it easier to analyze and understand the documents. These additional features ensure that you gain deeper insights into the patent documents and can conduct your research with precision and focus.

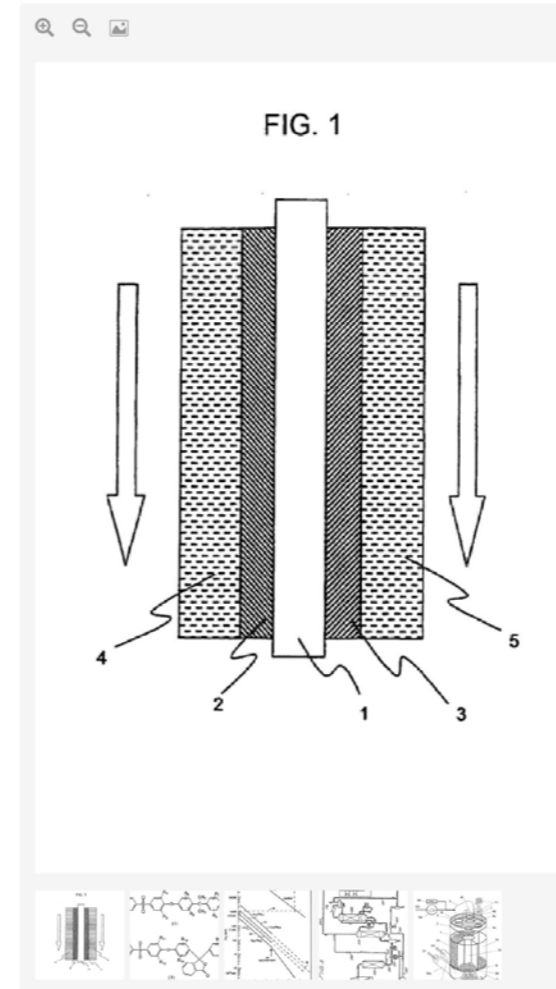
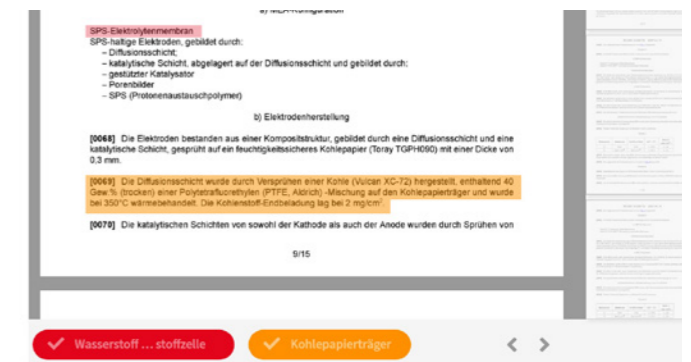


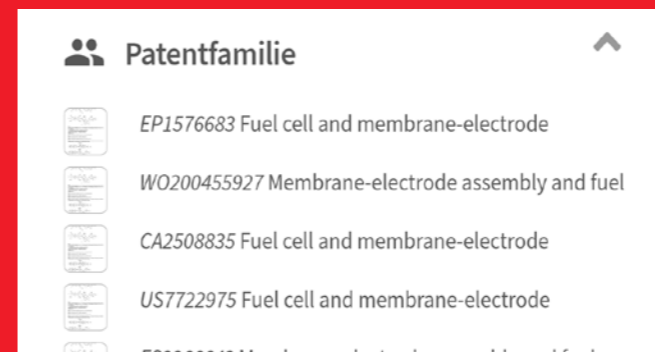
Image Preview and Highlighting

The Patent Viewer displays all images, diagrams, and icons contained within the patent document. This visual representation facilitates understanding complex technical details and relationships.

The Patent Viewer offers a highlighting function that highlights the locations of your search terms within the patent document. This makes it easier for you to quickly identify and analyze relevant sections.



Patents in the Patent Family



You can also view the patents within the patent family. This feature allows you to get an overview of all related patents and understand their developments and relationships.

REQUEST A FREE AND NON-BINDING

DEMO ACCESS



We look forward to providing you with more information about INTERGATOR Patent Search or presenting you with a free and non-binding demo. Get in touch with us to learn how our solutions can revolutionize your patent research. Our team is ready to answer your questions and assist you with your individual needs.

A free and non-binding 14-day demo can be requested through our website: patensearch.intergator.cloud.

- ✓ Detailed instructions and recommendations for the effective use of INTERGATOR Patent Search.
- ✓ Tips and tricks for optimizing your patent search and maximizing search results.
- ✓ Step-by-step guides for using the various features of INTERGATOR Patent Search.
- ✓ Videos demonstrating the functionality and benefits of INTERGATOR Patent Search.



ON-PREMISE OR CLOUD

INTERGATOR Patent Search can be flexibly operated as a service within our cloud, as a stand-alone system in a hosted data center, or in your own data center. Research location-independently or in a secure corporate environment and take advantage of the continuously growing pool of patents and data.

The INTERGATOR Patent Search Cloud solution is hosted in an ISO 27001 certified data center in Germany.

We ensure that:

- ✓ all queries and research results are NOT accessible to other users.
- ✓ all user references in log files are anonymized.
- ✓ all AI functions are implemented through function modules of INTERGATOR Patent Search on servers in the same data center. There is no access to external AI cloud solutions or services.


Of course, on-premise operation in a dedicated or rented data center is also possible. A central management system offers extensive administration options, ranging from cluster management of connected instances to model training and user management.



LET'S START

SEARCHING SMART

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