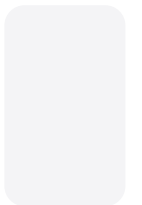
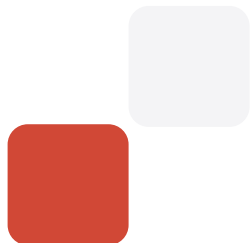
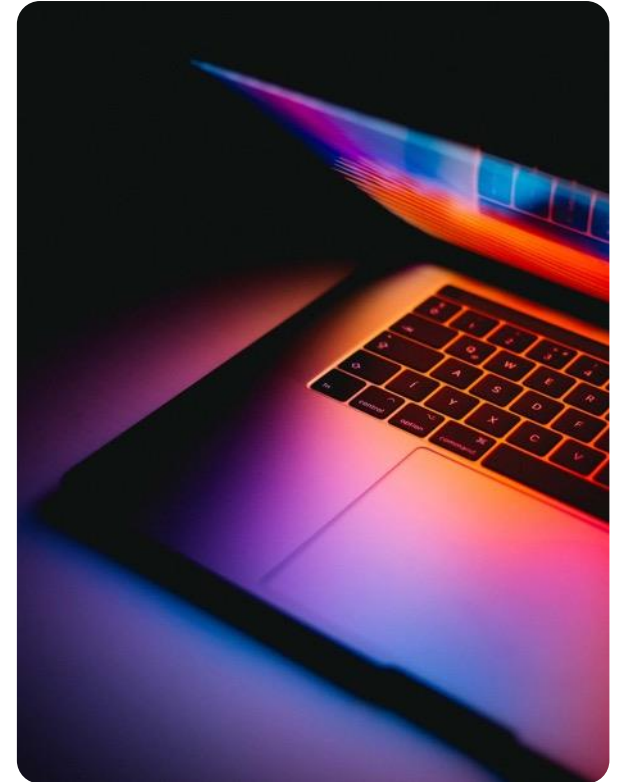




Questel

Unlocking Commercial Potential: Industry Perspectives on ASEAN IP Data Value and Service Offerings

6th ASEAN IP Register Coordinator Meeting



QUESTEL

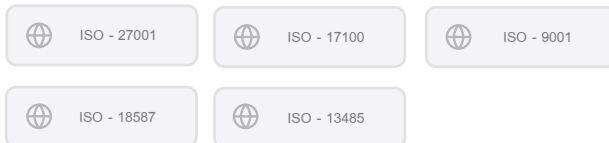
Questel

Who are we?

→ **Questel is a global provider of tech-enabled professional solutions for managing all types of intellectual assets.**

→ **Our mission** is to help **our client succeeding in the modern knowledge-based economy**, in an efficient, secure and sustainable way.

→ **We apply high standards** in quality, security and corporate social responsibility.



Shareholders

- CEO : Charles Besson
- 400+ employees are shareholders
- Private-equity backed Eurazeo, IK Partners, Paragon, Raise

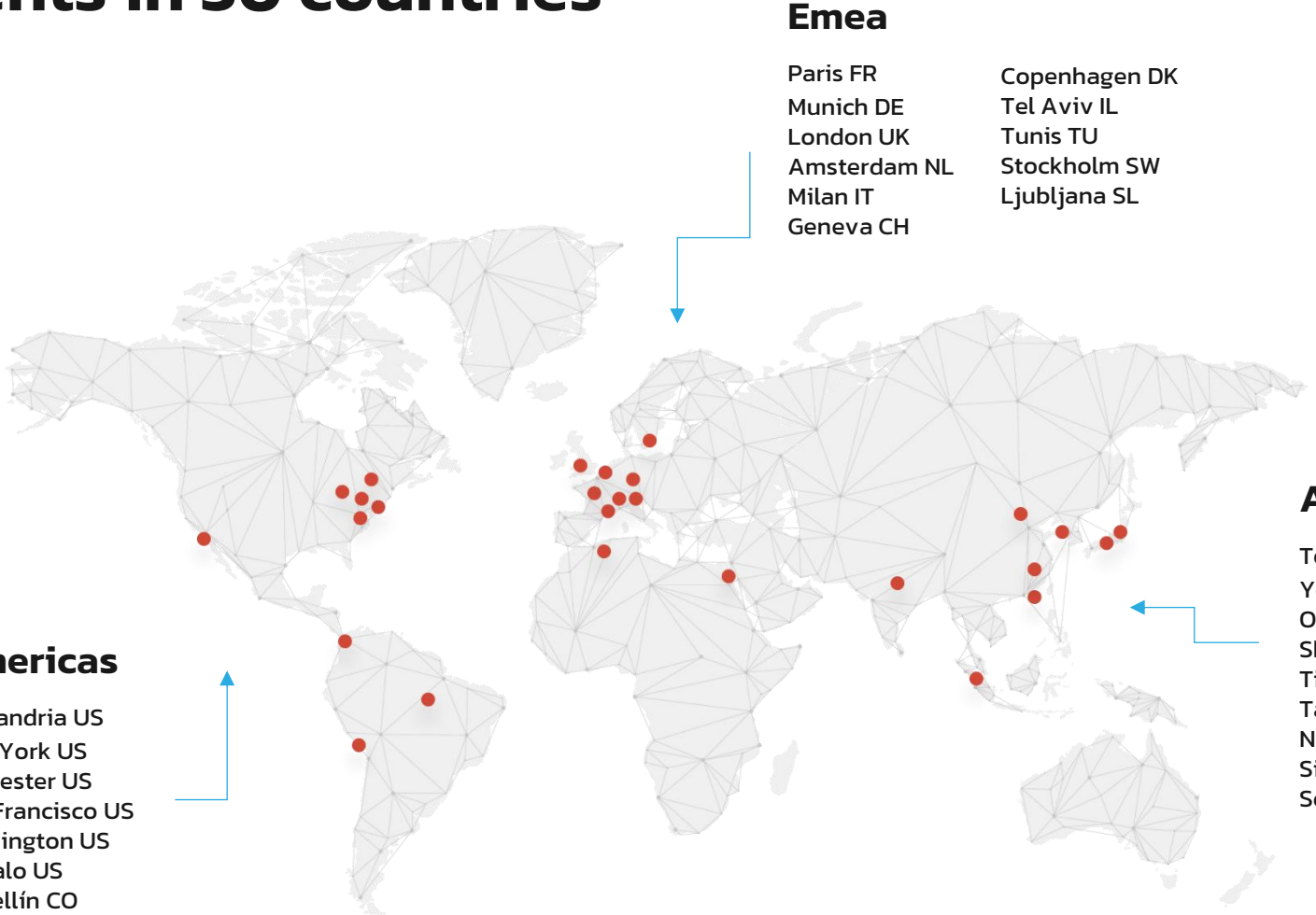
IPO / LBO5



We serve 20,000 clients in 30 countries

Key metrics

- 1,700 Questel employees
- 300+ local agents
- 1,200+ local translators
- 3 Questel Labs (AI & Big Data)
- 15 million users
- Petabytes of hosted data
- Daily update from 500+ sources



Americas

- Alexandria US
- New York US
- Rochester US
- San Francisco US
- Wilmington US
- Buffalo US
- Medellín CO
- São Paulo BR
- Arequipa PE

Emea

- Paris FR
- Munich DE
- London UK
- Amsterdam NL
- Milan IT
- Geneva CH
- Copenhagen DK
- Tel Aviv IL
- Tunis TU
- Stockholm SW
- Ljubljana SL

Apac

- Tokyo JP
- Yokohama JP
- Osaka JP
- Shanghai CN
- Tianjin CN
- Taipei TW
- New Delhi IN
- Singapore SG
- Seoul KR

Our Platforms in a nutshell

Search, Watch & Analysis

Orbit

Patent, NPL, scientific and business data

Markify

Trademark, design and domain names

Innosabi

Innovation trends and ecosystems mapping

Process Management

Equinox

IP rights management

Innosabi

Innovation management

Tech-enabled Services

IP Services Portal

Filing, validation, translation, renewals and recordals

Morningside Hub

An advanced client platform for all translation projects



ASEAN IP Data Value for Questel

ASEAN IP Data Value for Questel (1/2)

- ❖ **ASEAN as a Global Innovation Hub***: Steady growth in R&D investments across ASEAN is positioning the region as a key player in global innovation, with emerging technologies and new market opportunities
- ❖ **Strategic value of ASEAN IP Data**: Essential for commercial providers targeting global markets, like Questel, ASEAN patent data offers competitive intelligence and insights into regional trends, helping our clients strengthen their IP strategies
- ❖ **Top IP offices**: 6 of the 9 ASEAN IP offices rank among the top 45 IP offices for direct patent applications and PCT national phase entries*, highlighting the region's significance in global IP activity

ASEAN IP Data Value for Questel (2/2)

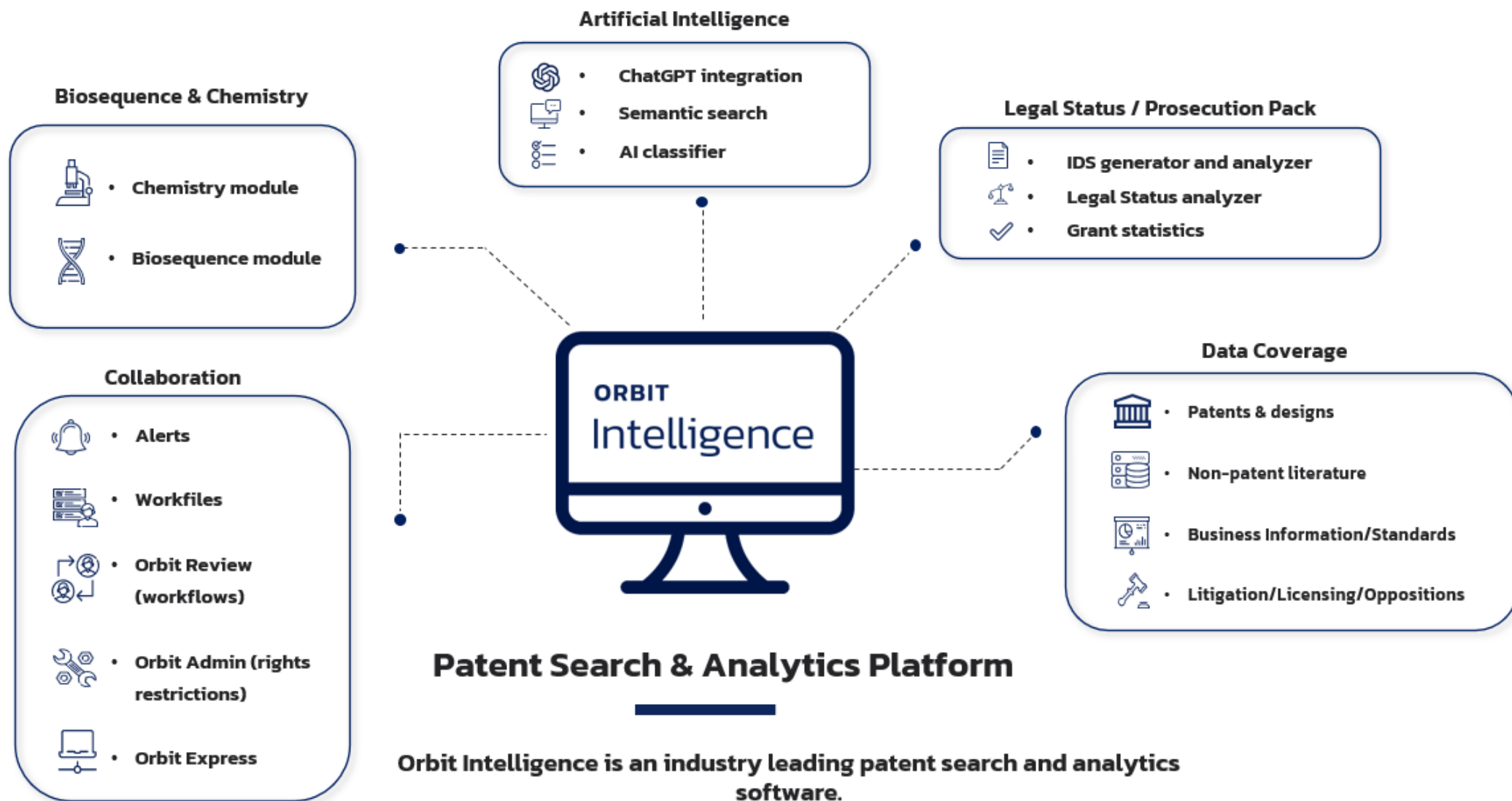
- ❖ **Demand vs accessibility:** Although requested by clients, ASEAN patent data can be difficult to access, making it a valuable resource for informed decision-making
- ❖ **Support for informed decision-making:** Leveraging ASEAN patent data enables our clients to minimize legal risks, identify emerging technologies, and make more strategic decisions regarding R&D, investments, and partnerships

Questel Service Offerings

Questel Service Offerings

- ❖ Questel developed and owns Orbit intelligence, a Worldwide patent database, one of the best tools on the market.
- ❖ With the coverage of patent offices representing more than 99% of the World's patent applications, more than 97% of the patent collection available in English alongside original languages, and the best query engine on the market, makes it the perfect tool for prior art searches.
- ❖ AI is also widely used to help bring quality content to our clients (patent families, translations, normalization, content extraction, metrics calculation), to offer robust semantic and similarity searches, to classify data and to provide reading and reviewing assistance.

Questel Service Offerings – Orbit Intelligence Overview



Questel Service Offerings – Orbit Intelligence Data



DATA COVERAGE

- **110 patent authorities**
 - 71 in full text
 - 60+ with legal status
 - 45 with citations
- **Citations (X, Y, 102, 103...)**
- **Licensing data (SEC)**
- **Standards**
- **Designs (75+ jurisdictions)**
- **Business information**
- **Non-patent Literature**
 - Scientific publications
 - Clinical trials
 - Government projects & grants

ENHANCED CONTENT

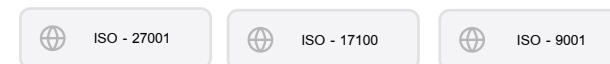
- **Key content**: Semantically summarizes the full-text of the invention
- **AI Assistant** Powered by ChatGPT to get patent summaries, enhanced abstract and more...
- **Technical concepts**: Extract the main ideas of the patent using AI
- **AI Classifier**: Assisted machine learning to distinguish between relevant and non-relevant data
- **Prosecution Pack**: Unique module dedicated to understanding the stages of the patent application process
- **Machine translation** of FULLTEXT records
- **Chemical structures**
- **Sequences**
- **Value Metrics**: Patent Value & Patent Strength ; Patent Technical Impact ; Patent Market Strategy ; Patent Originality & Generality Indices

LEGAL STATUS DATA

- **Sources**
 - INPADOC
 - USPTO official gazette
 - US Patent Center
 - CNIPA (Chinese Patent Office)
- **Alive/dead status**
- **Expected expiration date**
- **Term right extensions**
- **Oppositions**
- **Litigations**
- **FDA Orange book**

ASSIGNMENT DATA

- **Corporate tree**
- **Normalized names**
- **Reassignments**
- **Security interests**
- **Government interests**
- **Small companies**



All fields are searchable | [More details on the data coverage page](#)

Questel Service Offerings – Orbit Intelligence ASEAN Patent Data (1/2)

COUNTRY	PATENT DATA	PUBLICATION TYPE	TIME COVERAGE
BRUNEI	X	X	X
CAMBODIA	X	X	X
INDONESIA	Bibliographic data Citations	Patent applications Granted patents	1988-2024 1992-2021
LAO PDR	X	X	X
MALAYSIA	Bibliographic data Citations	Granted patents Utility model	1953-2024
PHILIPPINES	Bibliographic data Full text Citations	Patent for invention Application published Divisional patent application Granted patent Utility model application Granted utility model	1975-1999 2003-2024 2024-2024 1999-2024 2014-2024 1981-2022

Questel Service Offerings – Orbit Intelligence ASEAN Patent Data (2/2)

COUNTRY	PATENTS	PUBLICATION TYPE	TIME COVERAGE
SINGAPORE	Bibliographic data Full text Legal status Citations	Application published Patent application Transitional patent application Patent granted UK patents registered	2014-2024 1995-2017 1995-1995 1996-2024 1937-2001
THAILAND	Bibliographic data Full text	Published application Patent granted	1980-2024 1983-2022
VIETNAM	Bibliographic data Full text	Publication Number Patent Inventor's certificate Granted patent Utility model Granted utility model	1997-2024 1986-2015 1984-1991 1984-2023 1989-2024 2018-2023

Questel Service Offerings – Access Levels (1/2)

MODULES	ESSENTIAL	ADVANCED	PREMIUM
Search	AVAILABLE FOR EACH LEVEL		
Search exclusive invention-based patent families from 110+ patent authorities			
Search patents from 110+ patent authorities with built-in legal status & citations			
Search throughout the full text of 70+ patent authorities			
Search litigations and oppositions data of 25+ patent authorities			
Semantic search, similarity search, citation search			
Search and scan key content (object of invention, advantages over prior art drawbacks, independent claims), key technical concepts			
Access companies' corporate tree			
Scan graphical family legal status (timeline)			
Customize result page and hitlist displays			
Group and view extended INPADOC patent families			
Store search results in dynamic named lists			
AI Assistant Tab – AI Review and comparison of Patents			
Download			
Download PDF copies, individually and in bulk			
Download custom search reports in various formats (XLS, PDF, RTF, XML, TXT, CSV)			
Alerts			
Monitor technologies, competitors, US legal status and grant of a patent			
Workfiles			
Archive patent family & design portfolio			
Automatic feed archives with alerts' results			
Use metadata (ranking, comments), user fields and attach files			



Add-on Modules



Orbit Biosequence
DNA and amino acid
Searching



Orbit Chemistry
Chemical molecule
Searching



Industrial Design
Design Searching



AI-Classifer
Document
classification via AI



Prosecution Pack
Grant statistics and
detailed legal status

Questel Service Offerings – Access Levels (2/2)



Essential

Analyze up to 100k records



Advanced

Analyze up to 300k records



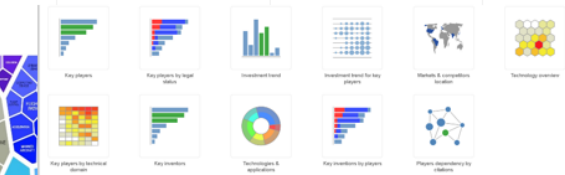
Premium

Analyze up to 2M records



Evaluation indicators

- Portfolio value**
The sum of all the patent value scores for all patents...
- Patent value**
Score based on patent strength scaled by the remaining...
- Patent strength**
Score based on the number of forward citations an...
- Technology impact**
Score based on the number of forward citations receive...
- Market strategy**
Score based on the GDP of the countries where the anal...
- Generality**
Values range between 0 and 1. The score is calculated...
- Originality**
Values range between 0 and 1. The score is calculated...
- Radicalness**
Values range between 0 and 1. The score is calculated...



Data rules Data rules administration

Filter results

Name

- MERCK SHARP & DOHME
- BOEHRINGER INGELHEIM
- NOVARTIS
- TAKEDA PHARMACEUTICAL

Assignees

- Assignees
- Inventors
- Representative
- All IPC codes
- All CPC codes

Data rules Data rules administration

Filter results

Name

- MERCK SHARP & DOHME
- BOEHRINGER INGELHEIM
- NOVARTIS
- TAKEDA PHARMACEUTICAL

Assignees

- Assignees
- Inventors
- Representative
- All IPC codes
- All CPC codes
- Concepts

Data rules Data rules administration

Filter results

Name

- FORD GLOBAL TECHNOLOGICAL
- UATC
- GM GLOBAL TECHNOLOGICAL
- TOYOTA MOTOR
- ROBERT BOSCH
- BAIDU

Assignees

- Assignees
- Parent company
- Inventors
- Representative
- All IPC codes
- All CPC codes
- Concepts



Questel Service Offerings – Prior art Search Functionality (1/6)



Semantic search

- Fast patentability search
- Ideal for both novice and expert users

semantic search

Free text ⓘ

The lithium iron phosphate battery (LiFePO4 battery) or LFP battery (lithium ferrophosphate), is a type of rechargeable battery, specifically a lithium-ion battery, using LiFePO4 as the cathode material, and a graphitic carbon electrode with a metallic backing as the anode. The specific capacity of LiFePO4 is higher than that of the related lithium cobalt oxide (LiCoO2) chemistry, but its energy density is less due to its lower operating voltage. The main drawback of LiFePO4 is its low electrical conductivity. Therefore, all the LiFePO4 cathodes under consideration are actually LiFePO4/C.[3] Because of low cost, low toxicity, well-defined performance, long-term stability, etc. LiFePO4 is finding a number of roles in vehicle use, utility scale stationary applications, and backup power.

Describe the technology you want to search in plain english or copy and paste the content from another document. At least a paragraph of text is expected.

Non English text will be sent to a 3rd party for translation

[Custom search wizard](#)

One click semantic search

Similarity search

- Find quickly similar patents to a reference patent

Patent families (FamPat) - 113 results Non-patent literature (NPL)

Select: 1

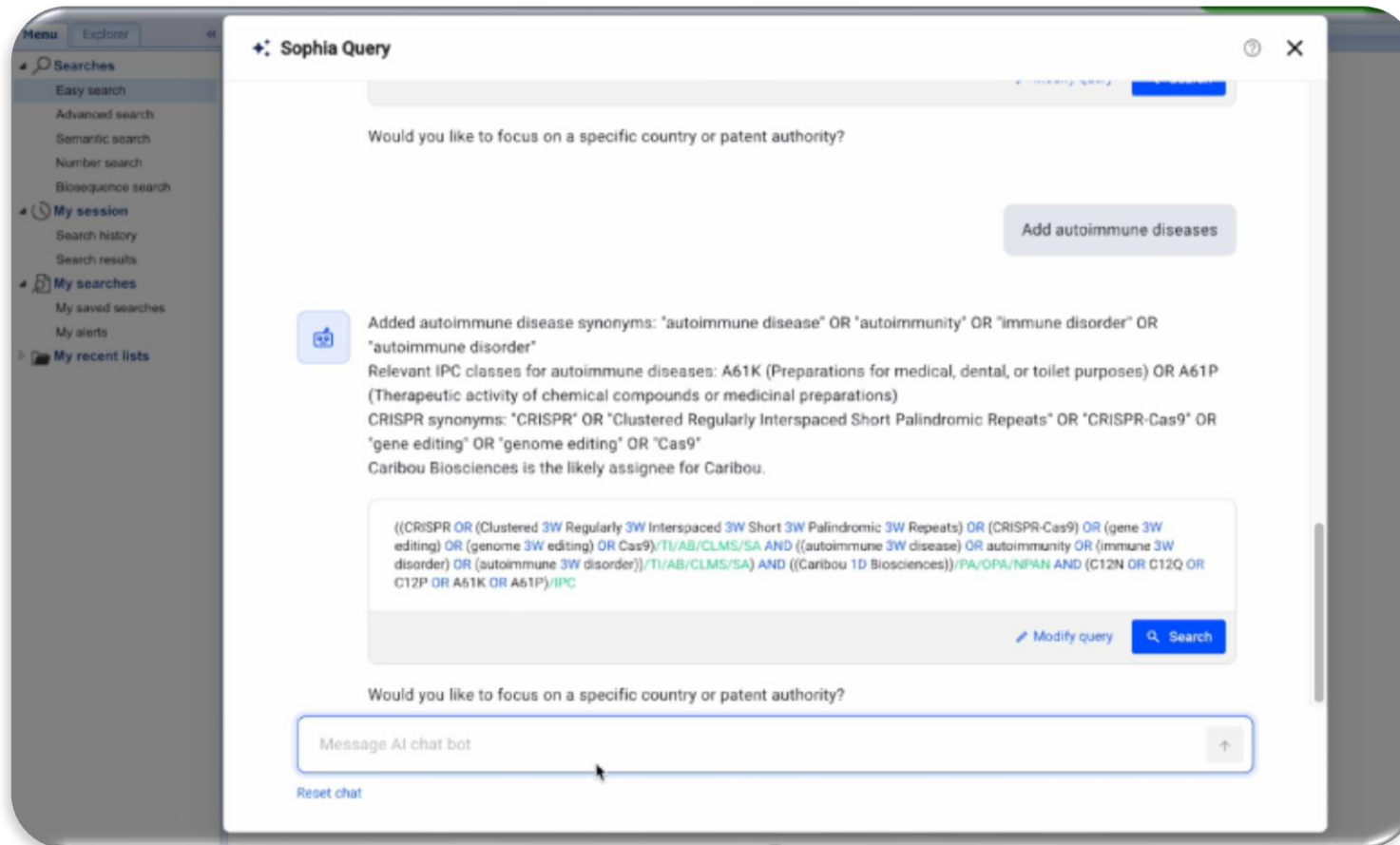
#	Title	Publication number	1st
1	Drilling fluid	220154061	202

Search similar patents
Restrict to similar patents

Disclosed herein are drilling fluid compositions suitable for use, for example, in drilling a well in a subterranean formation and other oil and gas operations. The drilling fluid compositions of the present disclosure include the condensation product of a trifunctional amine and a fatty acid and an oil base. The present disclosure also described processes for preparing drilling fluid compositions.

Similarity search

Questel Service Offerings – Prior art Search Functionality (2/6)



Sophia Query

A help for you to build a Boolean query to find the most relevant documents:

- Streamlines Patent Searches by simplifying the process and converting natural language questions into precise Boolean queries.
- Empowers Non-Expert Users by making patent searches accessible without expertise in Boolean logic, allowing to perform complex searches with ease.
- Assists experts in starting searches quickly on unfamiliar subjects, providing a strong foundation they can adapt and refine with their expertise.
- Saves time and reduces errors by providing users with faster, more accurate results by minimizing query syntax errors.

Questel Service Offerings – Prior art Search Functionality (3/6)



Combine search criteria

- Various search fields
- Use wild cards/truncations, Booleans and proximity operators to run comprehensive searches and reduce noise

Corporate Tree

- 5M companies in the Corporate Tree
- Get a company entire portfolio including its subsidiaries

Collection

- Easy switch from family-based to patent-based (by country) results to cover all the use case from general prior art to freedom to operate query

The screenshot displays the Questel Advanced search form interface. The main form is titled "Advanced search form" and "Command line" and is associated with the "FAMPAT - Database". It features several search criteria sections, each with a text input field and a "Clear Form" button. The sections are: SEARCH TERMS (with a "Suggestions" toggle and "Add" button), CLASSIFICATIONS (with an "Add" button and "IPC" dropdown), ASSIGNEES (with a "Current assignees" dropdown and "+ Assignee in database + Company corporate tree" link), and COUNTRIES (with an "Add" button and "All publication countries" dropdown). An "Advanced search fields" dialog box is open, allowing users to enable or disable various search fields. The dialog lists the following fields with their respective descriptions and toggle states: Search terms (checked), Classifications (checked), Molecules (unchecked), Assignees (checked), Inventors (unchecked), Countries (checked), Date (checked), Number (checked), and Legal status (checked). The dialog also includes "Cancel" and "OK" buttons.

Questel Service Offerings – Prior art Search Functionality (4/6)



- Filter by status, countries, oppositions, classification codes, etc.
- Preview the family structure
- Concept extraction using AI
- AI assistant to get summaries of patent, enhanced abstracts and compare family members
- Citations tab showing backward and forward citations including examiner rejections
- Identify the current assignee and access information on the company
- 12 highlighting colors
- Keywords in context (KWIC) to better understand the results
- Customize the preview tab and add more tabs to view legal status, timeline and more
- Download PDFs and customize exports in several formats
- Similarity and citation searching
- Save results in lists or workfiles

Publication number	1st app. date	Applicant / Assignee	Cited by	Cat.	Title
US20040075317	2002-10-11	JOYSON SAF...	Applicant		Child seat
AU2013221904	2012-09-04	BRITAX CHIL...	Examiner		Child seat with bel mechanism for im installation
US20110272983	2010-07-20	DOREL JUVENILE	Applicant, Examiner	102, 103 Details	Child restraint for v
EP2322379	2009-11-16	DOREL JUVENILE	Applicant		Reversible child s seat belt passaget
EP2080664	2008-01-18	APRICA CHIL...	Applicant, Examiner		Automobile child s
EP1997671	2007-05-30	TAKATA	Applicant		Seat belt clamo ac

Questel Service Offerings – Prior art Search Functionality (5/6)



The screenshot displays the Questel patent search interface. On the left, there is a navigation pane with options like 'Family view - 1/10' and 'Find similar patents'. The main area is divided into two panes. The left pane shows the patent text with various components highlighted in green and labeled with numbers like 102, 104, 106, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200. The right pane shows a technical drawing of a gas container with various parts labeled with numbers like 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200. A 'Labels List' on the right side of the drawing pane lists the components and their corresponding numbers.

ImageLink

Seamless cross-referencing between images and their descriptions in patent documents:

- Instant access to corresponding text for a specific element in a patent image with just a click.
- Effortless navigation through patent documents using our user-friendly toolbar, saving valuable time and resources.

Questel Service Offerings – Prior art Search Functionality (6/6)



The screenshot shows the Marvin JS Editor interface. On the left, there's an 'Import' section with 'Open file' and 'Paste source' options. Below that, a 'Filter by hit molecules' section shows a list of selected molecules, including 2-acetoxybenzoate and aspirin. On the right, a 'Chemistry table' displays a list of molecules with their names, source, and molecular mass. A chemical structure of a complex molecule is visible in the background.

Sequence Search

- Non-redundant database with data from sequence databases, sequence listings and manual curation
- Only software platform allowing sequence searching in a fully featured patent platform
- Easy combination with other fields such as keywords and molecule search
- 3 algorithms to search long sequences, very short sequences or "MOTIF"
- Powerful dedicated filters (claimed seq, legal status, % identity, subject, length, ...)
- Visualize & download sequences in patent family

Molecule Search

- Search drug names, IUPAC names, molecule drawing, CAS numbers with an exact or sub=structure search
- Powerful Sketcher (R-groups, Markush structures)
- Search all synonyms of a molecule at once
- Visualize all molecules in the patent
- Export all or hit molecule names and localization
- Visualize & download sequences in patent family

The screenshot shows the Questel sequence search results interface. It displays a table of search results with columns for title, publication number, first app date, applicant/country, filed date, claimed seq, and unique seq. Below the table, there's an 'Alignments' section showing sequence alignments with a query sequence and several subject sequences. A 'SEQUENCES' section at the bottom shows a grid of sequence alignments with highlighted positions.

Questel Service Offerings – AI Classification



Auto-class	Title	Publication number	1st app. date	Applicant/Assignee	AI-Classification
88%	A robotic lawnmower cutting deck with an angle adjustment arrangement, and a robotic lawnmower comprising such a cutting deck	US20220338410	2022-03-30	HUSQVARNA	Relevant (85%)
88%	Robotic lawnmower	US20140373497	2012-02-22	HUSQVARNA	2023-01-24
88%	Robotic lawnmower with folding mechanism and locking mechanism	US20220183223	2019-02-22	HUSQVARNA	2023-01-24
87%	Robot lawn mower	CN207476224	2017-10-24	SUZHOU CLE...	2023-01-24
87%	Control arrangement for robotic lawnmower and method of operating robotic lawnmower	EP4099816	2020-02-06	HUSQVARNA	2023-01-24
86%	Controlling robotic lawnmowers	US20210076562	2015-07-24	IROBOT	2023-01-24
86%	Improvement to a robotic lawnmower	US20040187457	2002-05-28	HUSQVARNA	2023-01-24
85%	Marking of features for a robotic lawnmower	US20220000018	2020-07-06	HUSQVARNA	2023-01-24
85%	Robotic lawn mower with sensor for detecting relative movement between body parts of the lawn mower	US20210235616	2018-06-21	HUSQVARNA	2023-01-24
85%	Robot lawn mower	CN207802777	2017-11-15	SUZHOU CLE...	2023-01-24
84%	System and method for navigating a robotic lawnmower into a docking position	US20210037703	2016-01-31	HUSQVARNA	2023-01-24
84%	Kit and method for converting conventional lawnmower to a robotic lawnmower	US20030144774	2002-01-29	TRISSEL RO...	2023-01-24
83%	Autonomous robotic lawnmower comprising suspension means progressively limiting pivotal movement of a cutting unit	US20220217904	2019-05-28	HUSQVARNA	2023-01-24
83%	Self-propelled robotic lawnmower comprising wheels arranged with a negative camber angle	US20200406697	2017-02-21	HUSQVARNA	2023-01-24
82%	Improved navigation for a robotic lawnmower	US20170347521	2014-12-23	HUSQVARNA	2023-01-24
82%	Robotic lawn mower with joystick sensor	EP2816885	2012-02-22	HUSQVARNA	2023-01-24
82%	Method for monitoring autonomous robotic lawnmowers	WO2021221825	2021-03-22	IROBOT	2023-01-24
82%	Robotic lawnmower fence	US20220396969	2019-11-14	HUSQVARNA	2023-01-24
81%	Robot lawn mower and scram switch	CN207836214	2017-11-15	SUZHOU CLE...	2023-01-24
81%	Automatic lawn mower robot and	FP3324261	2016-11-17	BERNINI SAR...	2023-01-24

	relevant	not relevant	Total
5	7	12	
19	1969	1988	
24	1976	2000	

relevancy threshold 84 %
relevancy threshold is dynamically calculated, document scoring above the threshold are classified as relevant

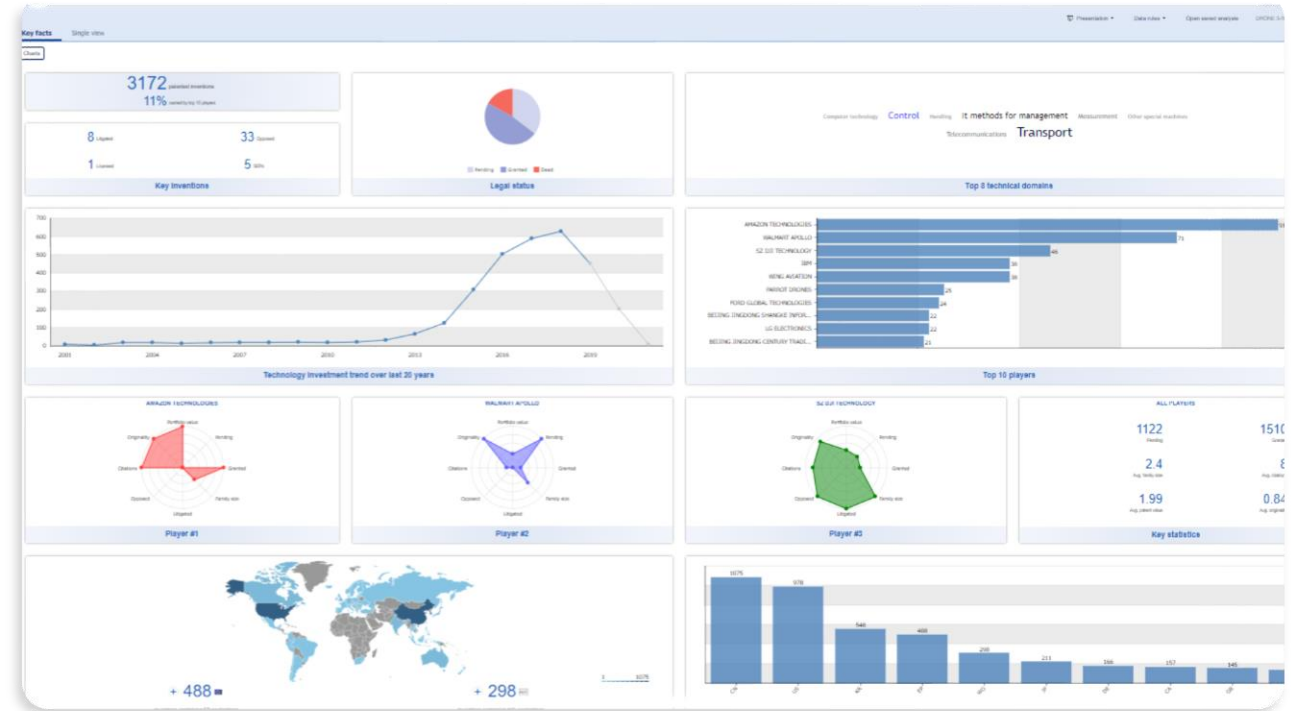
AI meets Orbit Intelligence

- Efficient patent classification using AI and machine learning.
- Tailored classifiers to match your specific needs
- Seamlessly integrates with existing alerts in Orbit Intelligence.
- Saves time and resources with automated classification.
- Enables informed decision-making in patent landscape analysis.
- Better patent portfolio management for strategic innovation.

Questel Service Offerings – Analysis



- Analytics dashboard for a quick overview of the results
- 60+ pre-defined charts
- Interactive and customizable charts
- Drill down functions
- One-click presentations
- Export chart data and images
- Company dashboards for more data about the assignee
- 3 analysis levels: essential, advance and premium

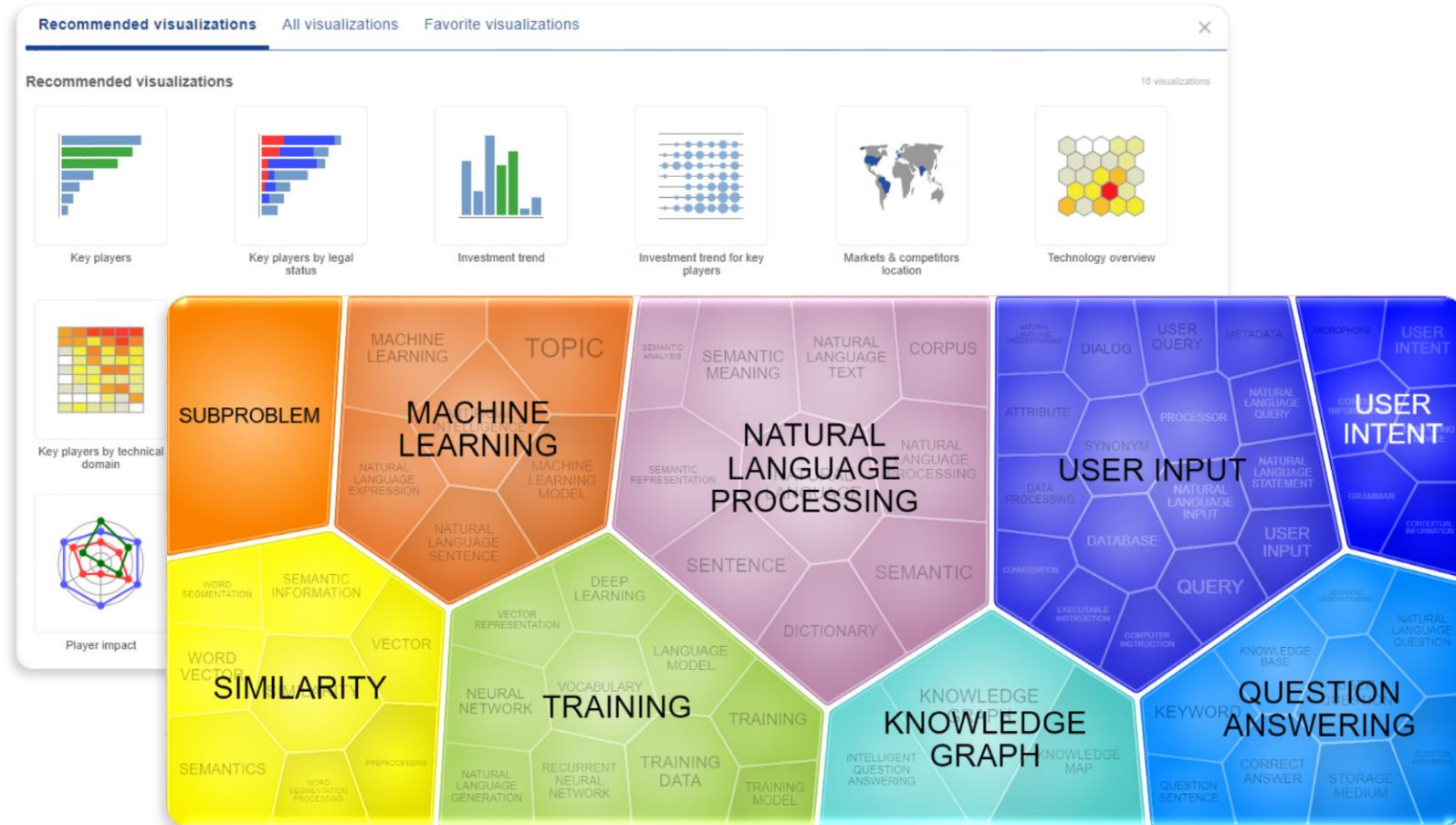


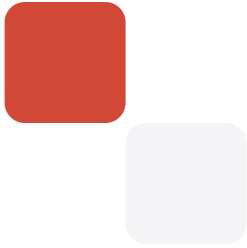
Questel Service Offerings – Analysis



→ Specific charts allow for identifying, comparing and evaluating:

- Filing trends
- Embedded concepts using AI analysis
- Landscape charts
- Classification code hierarchies
- Competitor relationships
- Portfolio metrics
- Opposition and litigations
- Pruning candidates
- Out and in-licensing candidates
- Tech scouting opportunities

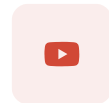




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Questel

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for Intellectual Property and Innovation Management.