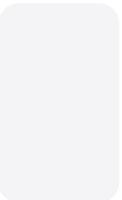




Questel

Tailored Patent Intelligence: **Orbit Intelligence Subscription Levels & Capabilities**



October 2025

Subscription Model Planning



Essential



Advanced



Premium

For Core Searching and Analysis

- **Fundamental Patent Searching** capabilities for the core user
- **Sophia Query** the AI-assistant to build Boolean queries
- **Sophia Lab** to save time during patent review with smart features like Claim Graph, AI Generated Summaries
- **Sophia semantic Search**
- **Patent Analytics** for understanding key trends in the technology space : 40+ pre-defined charts
- **One-click Presentation** on Recommended Graphs

For AI-Powered Searching and Reviewing

- **Essential** Subscription Level Features
- **Feature extraction in Sophia Search** for AI-powered relevant data extraction
- **Sophia Document** for AI-powered chat, saving hours of manual review
- **Grant & Examiner Statistics** features to support data-driven decision making throughout the prosecution process
- **Advanced Graphs** for in-depth understanding: **Concepts** analysis graphs, Multiple Selection of Charts, **Save Favorite Graphs**.
- **One-click Presentation** on Favorite Graphs

For Sophisticated Patent Analysis and Strategy

- **Advanced** Subscription Level Features
- **AI Classifier** for automated bulk review of Patent records
- **Competitive Landscaping Map**
- **Patent metrics** for Objective measures of strength and ranking of patents & portfolios
- **Advanced Graphs** for **Competitive Benchmarking, Whitespace analysis**, etc. for supporting Business Development decisions
- **Guided Activities** for developing IP strategy like Portfolio Pruning, Licensing strategy
- **Group Assignee data** by **Parent company**

List of Features linked to the Subscription Level

MODULES	ESSENTIAL	ADVANCED	PREMIUM
Search	AVAILABLE FOR EACH LEVEL		
Search patents from 110+ patent authorities/full text of 72 patent authorities with built-in legal status & citations			
Litigation/Licensing/Oppositions Searching			
AI Driven Searching: Sophia Semantic Search, Sophia Query, and Similarity Search			
Measurement Search			
Sophia Lab			
Search and scan key content (object of invention, advantages over prior art drawbacks, independent claims), key technical concepts;			
AI Patent Comparison			
Image Link			
Access Company Corporate Tree			
Scan graphical family legal status (timeline)			
Customize result page and hitlist displays			
Store search results in dynamic Lists			
Analysis			
One click report,			
Custom coloured charts			
Data rules (Assignee / IPC / Inventor grouping)			
Download PDF copies, individually and in bulk in various formats (XLS, PDF, RTF, XML, TXT, CSV)			
Alerts to monitor technologies, competitors, US legal status and the grant of a patent			
Workfiles to store, annotate, and share patent records			

Add-on Modules

 **BioSequences**

 **Chemistry**

 **Design**



List of Features linked to the Subscription Level

3 LEVELS OF ANALYSIS	ESSENTIAL	ADVANCED	PREMIUM
Max families in live analysis	100 000	300 000	2 000 000
Max families in saved analysis	15 000	20 000	30 000
Sophia Search* <i>*For 'Feature extraction' credits applicable</i>	Yes (Semantic Search only, No Feature extraction)	Yes	Yes
IDS Generator/Analyzer	No	Yes	Yes
Grant and Examiner statistics	No	Yes	Yes
Save your favorite graph(s)	No	Yes	Yes
Browse selection and Drill down	No	Yes	Yes
Color graph(s) according to legal status, top assignees / inventors / technology domains	No	Yes	Yes
Concepts Analysis	No	Yes	Yes
Sophia Document* <i>*Credits applicable</i>	No	Yes	Yes
Dedicated graphs, plots, radar charts for competitive benchmarking	No	No	Yes
Evaluation modules and Metrics in analysis –answer business questions	No	No	Yes
Landscape map	No	No	Yes
Custom axis	No	No	Yes
Export all data in excel in analysis; guided activities	No	No	Yes
AI Classifier	No	No	Yes

SOPHIA QUERY



Sophia Query

Tell me what you want to search and let us chat about it. I might not get it right straight away, so let us chat about your requests.

The only fields I know are text fields (generic text and claims), IPC and CPC, filing/application dates, publication dates, inventors, assignees. I also know about alive patents and granted ones. Just tell me if it is an FTO and I will focus on claims and alive patents!

Asking about any other fields will not work. More fields will be added soon.

can you find patents on electric vehicles published last year by major companies?



Electric Vehicles Synonyms: "electric vehicle", "EV", "electric car", "battery electric vehicle", "BEV"
IPC Classes: B60L (Electric propulsion with power supply lines or rails), B60K (Arrangement or mounting of propulsion units or of transmissions in vehicles), H01M (Processes or means for the direct conversion of chemical energy into electrical energy)

```
((electric 3W vehicle) OR EV OR (electric 3W car) OR (battery 3W electric 3W vehicle) OR BEV)/TI/AB/CLMS/SA AND (EPD=2024-01-01:2024-12-31) AND (Tesla OR (General 1D Motors) OR Ford OR Toyota OR Volkswagen)/PA/OPA/NPAN AND (B60L OR B60K OR H01M)/IPC
```

Modify query

Search

Would you like to focus on specific countries or add CPC classes?

Message Sophia Query



[Reset chat](#)

[AI chat box assistant: Convert your Natural Language questions into a Boolean Patent Search Query.](#)



Essential

Yes



Advanced

Yes



Premium

Yes

MEASUREMENT SEARCH

Advanced search form Command line FAMPAT - Database

Clear Form

SEARCH TERMS Auto-translation Suggestions Add

— AND —
[the current assignees (Intel)]
AND [the length is between 10 to 25 μm in etching]

CLASSIFICATIONS Add

IPC

ASSIGNEES

MEASUREMENT Add

Claims only

Measurement settings
Define where the measurements have to be searched in the patents

Claims only
Measurements extracted from the patent claims

Manage fields Search

Combine a “text-based search” with a number range and its unit.



Essential

Yes



Advanced

Yes



Premium

Yes

AI PATENT COMPARATOR

Translate Print Edit Preview

Methods and systems for predicting risk of observable damage in wind turbine gearbox components

Abstract

Embodiments disclosed herein may include methods, systems, and tangible, non-transient, computer-readable media having instructions thereupon for determining a damage state of a wind turbine gearbox. A method performed, executed on a processor of a system, or implemented by a processor as instructions, may comprise producing a damage state diagnostic, producing a damage progression model for the wind turbine gearbox using operational data and a state transition function, and combining the damage state diagnostic with the damage progression model using a hybrid prognostics model to produce a probability distribution of a current damage state estimate. Producing the damage state diagnostic may comprise obtaining a measurement dataset for the wind turbine gearbox, integrating field-operator-provided intelligence into the measurement dataset, normalizing the measurement dataset with respect to a known failure behavior for the wind turbine gearbox, and combining the normalized measurement dataset with the known failure behavior to produce the damage state diagnostic.

Protected countries

Granted: JP, US, ZA

Pending: AU, BR, CL, CN, EP, IN, MX, PE

Word-by-word or character-by-character comparison of claims and descriptions of patents from same or different families.

List of publications

Compare patents

Patent comparator

US20220155849 A1 - Application published US10838485 B2 - Granted patent as second publication Compare AI insights

Claims Descriptions Compare by word

AI insights

AI-generated text - powered by ChatGPT

Commonalities

Both patents describe a console system that supports multiple video game topologies, including VR and television configurations. They both mention the use of ports for connecting devices like head-mounted displays and televisions, and the ability to receive manual input for selecting game topologies. Additionally, both patents include the concept of storing video games on removable media.

Differences

US20220155849 A1 includes claims about a communication receiver that detects devices to provide selectable game topologies, which is not explicitly mentioned in US10838485 B2. The A1 patent also emphasizes the augmented reality topology more prominently in its claims. US10838485 B2, on the other

Claims

1-6. What is claimed (canceled) is:
71. A video-game console device system comprising: a console housing, wherein a video game is operable of being played, said video game having a plurality of selectable video game topologies, wherein manual input console is operable to be received input indicative of a selection of at least one of said selectable video game topologies, and wherein said plurality of selectable video game topologies comprises: a virtual reality video game topology operable for displaying said video game in a virtual reality configuration on at least a head-mounted device; and a television set video game topology operable for displaying said video game in a television configuration on at least a television set.
82. The video-game console device system of claim 71, wherein said plurality of selectable video game topologies further comprises an augmented reality video game topology operable for displaying said video game in an augmented reality configuration on a device.
93. The video system game of console claim device 1, wherein claim said 7; console further comprising: a virtual reality port for coupling said head-mounted device, wherein said plurality of selectable game topologies further comprises an augmented reality game topology for displaying said video game in an augmented reality configuration on a device; said virtual reality port is operable to provide virtual reality video game data to said head-mounted device; and a television port for coupling said television, wherein said television port is operable to provide television video game data to said television.
104. The system of claim 1, wherein said plurality of selectable game topologies further comprises an augmented reality game topology for displaying said video game console in an augmented reality configuration on a device, wherein



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Essential

Yes



Advanced

Yes



Premium

Yes

IMAGELINK

Easy search HELICOPTER?/TVCLMS AND "US"/PN AND "EP"/PN AND "WO"/PN AND EAPD >> 2021

Menu Filter Explorer Patent Families (FamPat) - 61 results Non-patent literature (NPL)

Filter options

- Legal status
 - Alive (61)
 - Dead (0)
- 1st application year
 - After 2020 (61)
 - 2016-2020 (0)
 - 2011-2015 (0)
 - 2006-2010 (0)
 - Before 2006 (0)
- Assignee
- Publication country
- Litigations
- Oppositions

#	TI	PN	1st app. date	PA	
1	Compound helicopter	EP4234397	2021-03-12	KAWASAKI H...	100 %
2	Helicopter flight support	EP4313760	2022-03-01	SHA EN LUOLAO	98 %
3	Method and system for detecting a line above ground from a helicopter	EP4348583	2021-06-02	KLEON SOLU...	91 %
4	System and method for satellite communication in a helicopter	EP4179643	2021-07-08	HUGHES NET...	89 %
5	Method and system for detecting anomalies relating to components of a transmission system of an aircraft, in particular a helicopter	EP4091945	2021-05-18	LEONARDO... POLI	82 %
6	Flight compensator control system for aircraft with haptic feedback	EP4347396	2021-06-04	SAFRAN ELE...	68 %
7	Heat-resistant product	EP4373791	2021-07-22	SAINT GOBAL...	68 %
8	Improved transmission device for hybrid aircraft	EP4334210	2021-05-06	SAFRAN HELI...	67 %
9	Wall provided with a cooling orifice having a triangular-section diffusion portion	EP4291756	2021-02-10	SAFRAN AIR...	66 %
10	Charging station for electrical vehicles, including fuel battery system	EP4335017	2022-05-02	PETRO WELL...	66 %
11	Flight compensator for aircraft	EP4355654	2021-06-18	SAFRAN ELE...	65 %
12	Fault tolerant multiple rotary actuator assembly	EP4097831	2021-02-26	MOOG... MOOG	64 %
13	System for controlling aeraulic conditions above a landing or deck-landing zone	EP4304940	2021-03-10	ONERA - OFF...	61 %
14	Metal-air rechargeable flow battery	EP4338226	2022-05-16	MEDIA LARIO (K) PO	61 %
15	Consolidated aerial high capacity foam firefighting system	EP4093518	2021-01-22	WETERN STA...	60 %
16	Plane arrangement with a heatable sensor window	EP4323185	2022-04-08	SAINT GOBAL...	60 %
17	Measuring of carbon footprint in offshore drilling	EP4341888	2022-05-19	GEOQUEST S... (X)	60 %
18	Aircraft capable of hovering	EP4056469	2021-03-11	LEONARDO...	59 %
19	Helical tower and winding module therefor	EP4347977	2021-06-02	STRASSER P...	59 %
20	Unpowered breakout locking mechanism	EP4326613	2022-04-20	MOOG...	59 %
21	Bearing cage treated with plasma-nitriding	EP4419724	2021-10-20	SCHAEFFLER... (X)	59 %
22	System, method, and computer program product for avoiding ground blindness in a vehicle	EP4100917	2021-01-29	OUTSIGHT...	59 %
23	Composite structures comprising metal substrates	EP4347252	2022-05-23	PRC DESOTO...	58 %

Image Claims Description Key content Fulltext Kwic

Labels List

Preview AI assistant Image Claims Description Key content Fulltext Kwic

Labels List

- control system
- geared motor
- motor
- position sensor
- reduction gear
- variable-friction actuator
- motor shaft
- output shaft
- control wheel
- first angular position sensor
- second angular position sensor
- play zone
- disks
- disks
- magnetorheological fluid



Essential

Yes



Advanced

Yes



Premium

Yes

SOPHIA LAB



Biblio Claims Description First Page

Image Chemistry table Sophia Lab Concepts Kwic Legal status Citation

Translate

Sophia Lab

Experimental **generative AI** features, content generated in [English](#)

EP3052471 B1 - Patent specification

Patent summary
Generate a summary that highlights the main topics. **Run**

Claims rewrite
Reformulate claims to highlight novelty for quicker understanding. **Run**

Claim graph
Visualize the technical means and their functional relationships for the first claim. **Run**

Methods for post-fabrication functionalization of poly(ester ureas)

Protected countries
Granted: DE, EP, FR, GB, NL

List of publications

Application number	Date	PDF
2014WO-US58264	2014-09-30	
2014EP-0848810	2014-09-30	Register
EP3052471 B1 - Patent specification	2023-06-21	PDF
EP3052471 A4 - Supplementary search report	2017-06-14	PDF
EP3052471 A1 - Application published with search report	2016-08-10	PDF

Other Title Verfahren zur funktionalisierung von poly(esterharstoffen) nach der herstellung

Abstract
Amino acid-based poly(ester urea)s (PEU) are emerging as a class of polymers that have shown promise in regenerative medicine applications. Embodiments of the invention relate to the synthesis of PEUs carrying pendent "clickable" groups on modified tyrosine amino acids. The pendent species include alkyne, azide, alkene, tyrosine-phenol, and ketone groups. PEUs with Mw exceeding 100k Da were obtained via interfacial polycondensation methods and the concentration of pendent groups was varied by copolymerization. The incorporation of derivatizable functionalities is demonstrated using 1H NMR and UV-Vis spectroscopy methods. Electrospinning was used to fabricate PEU nanofibers with a diameters ranging from 350 nm to 500 nm. The nanofiber matricies possess mechanical strengths suitable for tissue engineering (Young's modulus: 30045 MPa; tensile stress: 8.51.2 MPa). A series of bioactive peptides and fluorescent molecules were conjugated to the surface of the nanofibers following electrospinning using bio-orthogonal reactions in aqueous media.

Sophia Lab

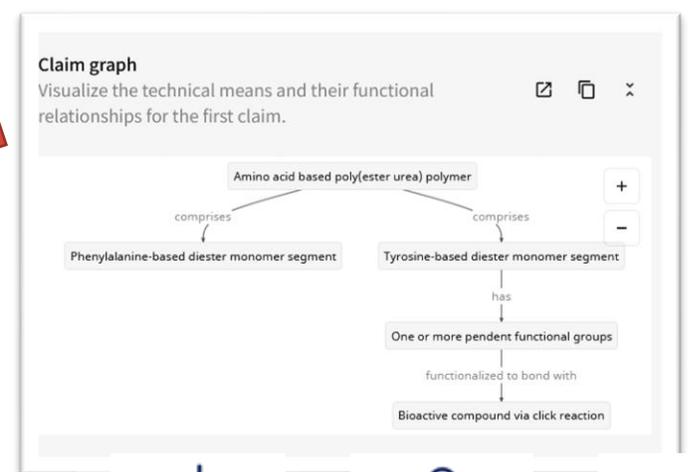
Experimental AI features, content generated in [English](#)

EP3052471 B1 - Patent specification

Patent summary
Generate a summary that highlights the main topics.

Amino Acid-Based Poly(Ester Urea) Polymers with Clickable Functionalization for Bioactive Compound Attachment
This invention relates to amino acid-based poly(ester urea) polymers that are functionalized to bond with bioactive compounds through click reactions, specifically utilizing phenylalanine and tyrosine-based diester monomer segments.

Claim summary
Claim 1 describes an amino acid-based poly(ester urea) polymer that includes a phenylalanine-based diester monomer segment and a tyrosine-based diester monomer segment, where the tyrosine segment has one or more functional groups capable of bonding with a bioactive compound via a click reaction. Dependent claims specify additional features such as the types of functional groups, the molecular structure, and the inclusion of bioactive compounds like peptides or growth factors. Claims also cover methods for synthesizing the polymer and its applications in formed structures.



[Your AI-assistant for reading patents](#)



Essential

Yes



Advanced

Yes



Premium

Yes

PATENT ANALYTICS: KEY FACTS DASHBOARD

4638 patented inventions
4% owned by top 10 players

26 Litigated 136 Opposed
7 Licensed 4 SEPs

Key inventions

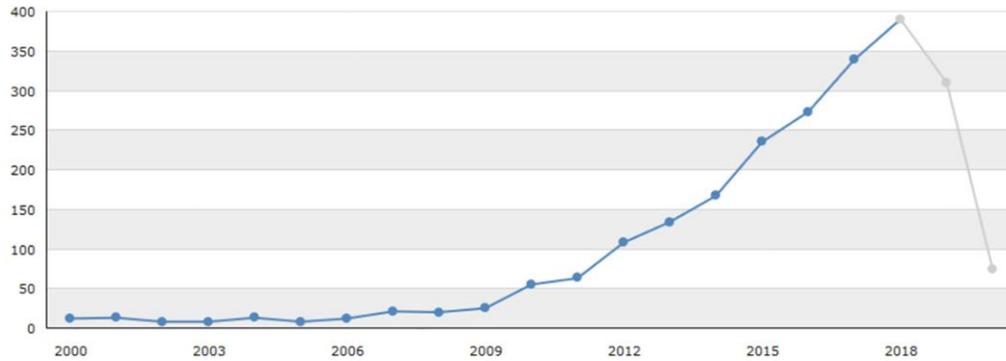


Pending Granted Dead

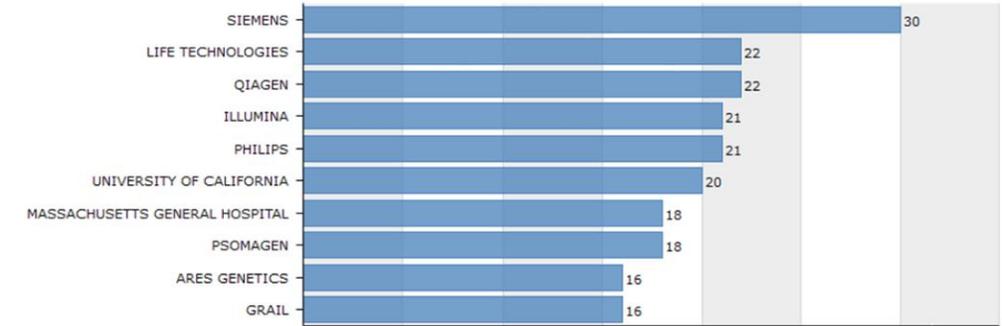
Legal status

Analysis of biological materials **Biotechnology** Computer technology Electrical machinery, apparatus, energy
Measurement Organic fine chemistry Pharmaceuticals Transport

Top 8 technical domains



Technology investment trend over last 20 years



Top 10 players



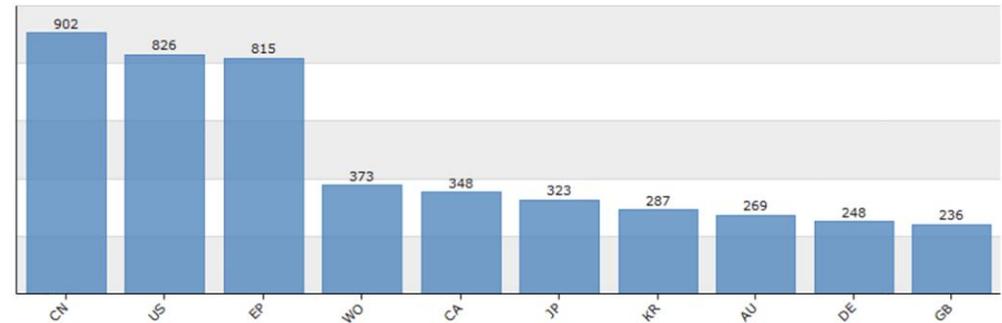
+ 815 EP

Inventions containing EP applications

+ 373 PCT

Inventions containing WO applications

Market coverage



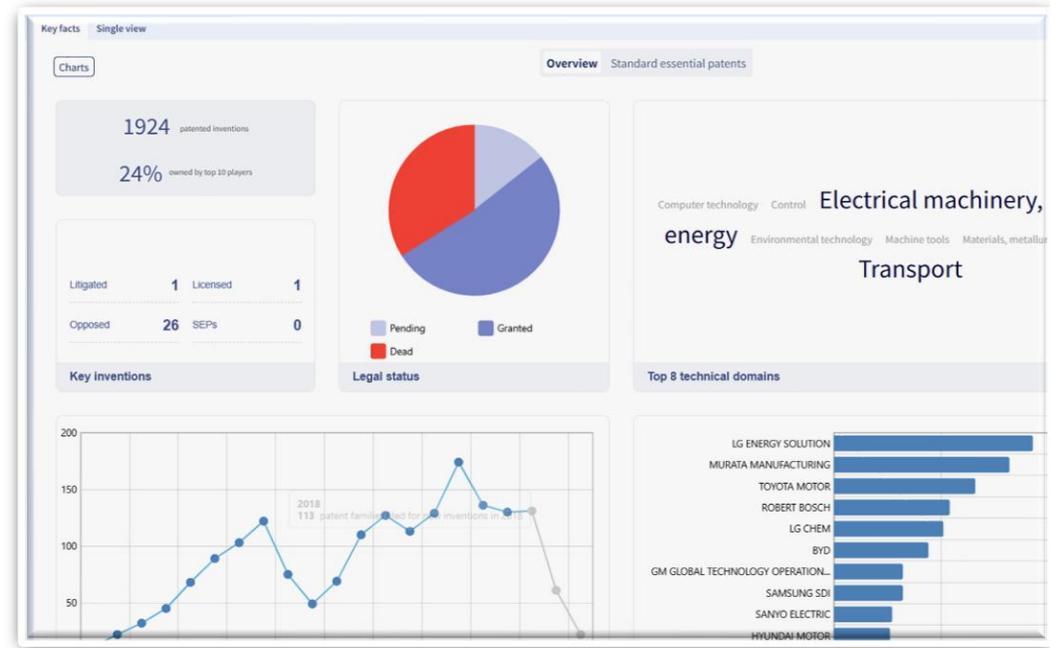
Top 10 markets



ANALYZE PATENT RECORDS INSTANTANEOUSLY

2203 results for (driverless)/ 11/AB/CLMS/OBJ - Collection: FAMPAL

#	Title	Publication number	1st app. date	Applicant/Assignee
1	Method for checking a collision between two driverless transport vehicles, driverless transport vehicle, and system having a plurality of driverless transport vehicles	EP3475936	2016-06-22	KUKA DEUTS...
2	Method for automatically driving a driverless transport vehicle on a track on a ceiling of a building, and driverless transport vehicle	WO2019/048302	2017-09-06	KUKA DEUTS...
3	Procedure for the feed of loads of a feed corridor on itself relative to a moving assembly belt	DE19906189	1999-02-15	INDUMAT
4	Driver-less rail vehicle and transport system	WO2019/076722	2017-10-16	MONTRATEC
5	A driverless data transfer device	EP2761858	2012-09-23	R F KEEPER
6	Driverless transport vehicle and method for operating a driverless transport vehicle	DE102018207202	2018-05-09	AUDI
7	Driverless transport vehicle and method for operating a driverless transport vehicle	EP3175310	2014-07-29	KUKA ROBOTER
8	Driverless transport vehicle and method for parameterizing a driverless transport vehicle and	EP3439265	2017-08-04	ROE...



Essential

All users have access to **same quality search and collaboration options**. Orbit Intelligence Essential will help **analyze basics trends**.

- **100,000 records limit in live analysis**
- **11 Top recommended visualizations**
- **43 Pre-defined charts**



Advanced

Orbit Intelligence Advanced provides **more customization capabilities** and tools to help **better understand the content** of the analyzed datasets.

- **300,000 records limit in live analysis**
- **11 Top recommended visualizations**
- **46 Pre-defined charts**



Premium

Premium access, with **advanced charts and options** allows the differentiation of patent portfolios according to their **qualitative metrics and scores**.

- **2,000,000 records limit in live analysis**
- **16 Top recommended visualization**
- **52 Pre-defined Charts**

SAVE AND ARCHIVE PATENT ANALYSES

Save analysis

Save the current analysis

Analysis name:

Analysis description:

Include citations: allows obtaining citation-based statistics. Longer processing time.

Location:

Inbox

Ok Cancel

1924 patented inventions

24% owned by top 10 players

Computer technology Control Electrical machinery, apparatus, energy Environmental technology Machine tools Materials, metallurgy Measurement Transport

technical domains

LG ENERGY SOLUTION

MURATA MANUFACTURING

TOYOTA MOTOR

ROBERT BOSCH

LG CHEM



Open saved analysis

1924 patented inventions

24% owned by top 10 players

Computer technology Control Electrical machinery, apparatus, energy Environmental technology Machine tools Materials, metallurgy Measurement Transport



Name	Description	Date	Folder path	Count	Source
SER test		2019-10-14	Inbox	4282	Patent families (FamPat) View
Hydrogel test		2019-09-27	Presales	712	Patent families (FamPat) View
Extended patent RU priority		2019-09-26	User seminars/Russia October 2019	7873	Patent families (FamPat) View
driverless WF		2019-06-06	Inbox	2238	Workfile module View
PD1 licensing		2019-05-14	PD1	454	Patent families (FamPat) View
driverless alive		2019-04-30	Driverless technology	4990	Patent families (FamPat) View
driverless		2019-04-23	Inbox	1934	Patent families (FamPat) View
Unilever vs P&G detergent		2019-04-05	Presales	2640	Patent families (FamPat) View
licensing boeing		2019-04-04	Inbox	1000	Patent families (FamPat) View



Essential

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15,000 records limit
in saved analysis



Advanced

Orbit Intelligence Advanced provides **more customization capabilities** and tools to help **better understand the content** of the analyzed datasets.

20,000 records limit
in saved analysis

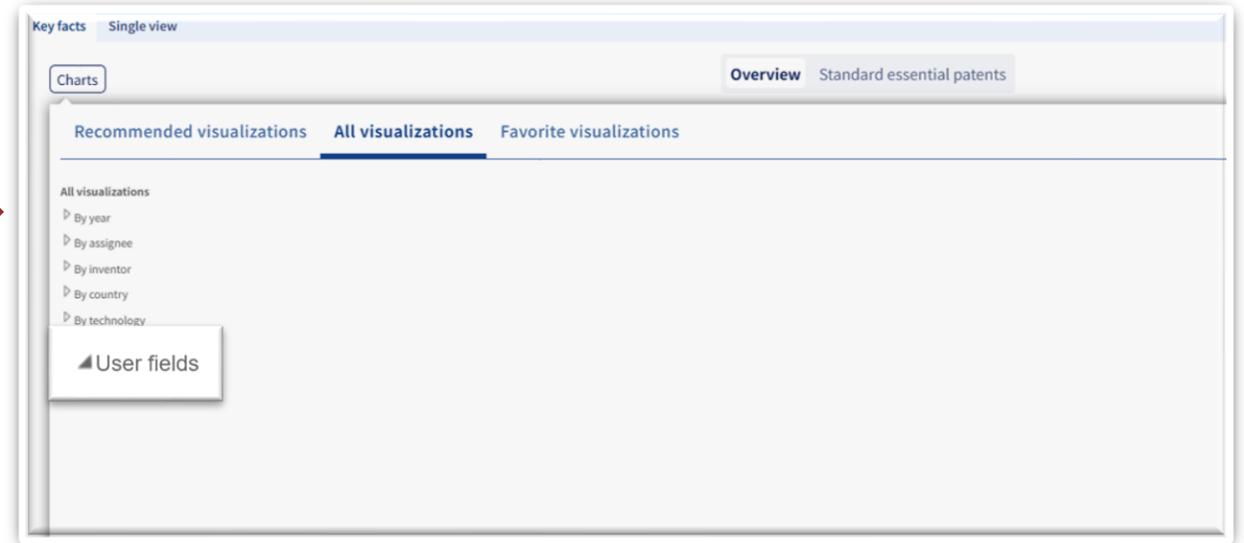
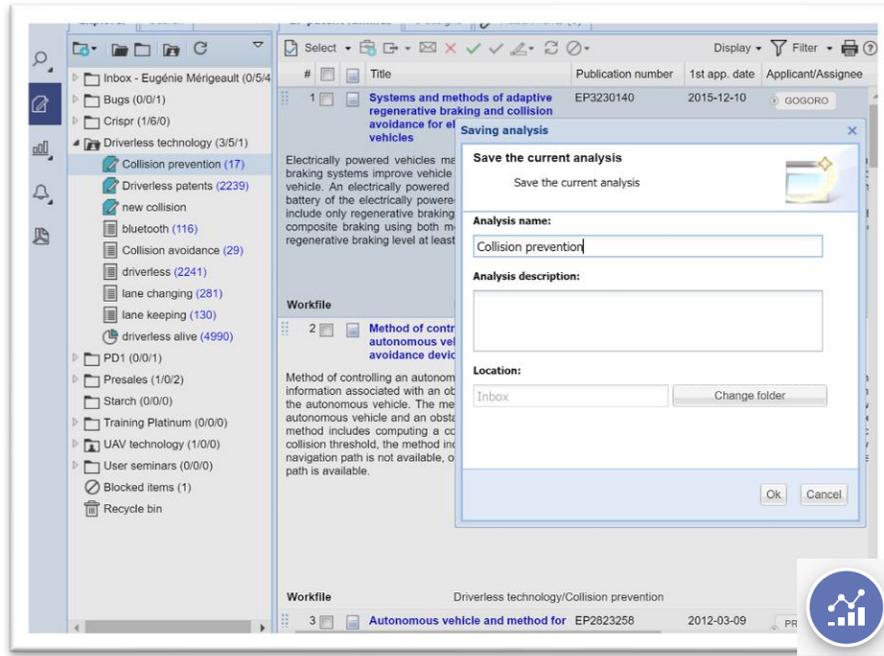


Premium

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30,000 records limit
in saved analysis

ANALYZE WORKFILES



Essential

All users have access to **same quality search and collaboration options**. Orbit Intelligence Essential will help analyze **basics trends**.

- **15,000 records limit in saved analysis**



Advanced

Orbit Intelligence Advanced provides **more customization capabilities** and tools to help **better understand the content** of the analyzed datasets.

- **20,000 records limit in saved analysis**

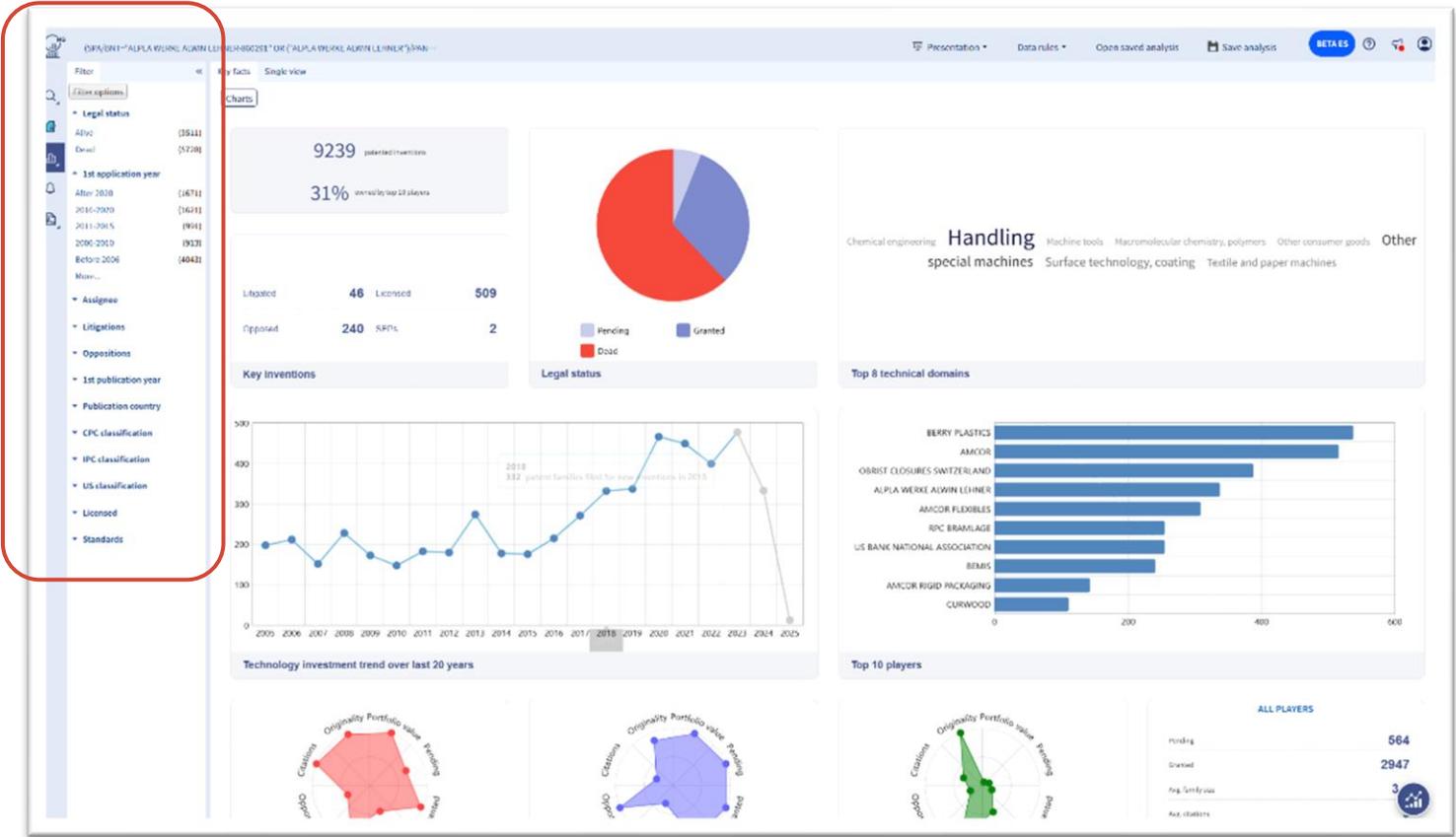


Premium

Premium access, with **advanced charts and options** allows the differentiation of patent portfolios according to their **qualitative metrics and scores**.

- **30,000 records limit in saved analysis**

FILTER FOR ANALYSIS MODULE



Essential

Yes



Advanced

Yes



Premium

Yes

CUSTOM CHART COLOR



More options

- Add to favorite visualizations
- Add a custom color
- Add to presentation
- Download
- Filter

Custom color

Color [Blue Swatch]

Reset | Apply | Cancel

Custom color

Color [Color Picker]

Reset | Apply | Cancel

0 87 255

R G B



Essential

Yes



Advanced

Yes



Premium

Yes



Currently in available in betaqs.orbit.com

CREATE DATA RULES (SAVED ANALYSIS)

- [How to Create a data rule article](#)
- [Data rules administration article](#)

The screenshot shows the main application interface. At the top, there is a 'Data rules' dropdown menu. Below it, there is a 'Recommended visualizations' panel with several visualization options:

- Key players
- Key players by legal status
- Markets & competitors location
- Investment trend
- Investment trend for key players
- Key players by technical domain
- Key inventors
- Landscape by technology clusters
- Technologies & applications
- Key inventions by players

The screenshot shows the 'Data rules administration' interface. It features a search bar, a filter dropdown, and a table of companies with their occurrence counts. On the right side, there are buttons for 'Corporate tree', 'Group', 'Ungroup', 'Exclude', 'Include', and 'Use filter as rule'.

Name	Occurrences
<input type="checkbox"/> FORD GLOBAL TECHNOLOGIES	4
<input type="checkbox"/> BAIDU	1
<input type="checkbox"/> BAIDU TIMES TECHNOLOGY	1
<input type="checkbox"/> GOGORO	1
<input type="checkbox"/> HYUNDAI MOBIS	1
<input type="checkbox"/> KOLLMORGEN SARO	1
<input type="checkbox"/> KOREA ELECTRONICS TECHNOLOGY INSTITUTE	1
<input type="checkbox"/> KOREAN AGENCY FOR DEFENSE DEVELOPMENT	1
<input type="checkbox"/> NISSAN MOTOR	1
<input type="checkbox"/> PRAXAIR TECHNOLOGY	1
<input type="checkbox"/> SHENZHEN ZHAOKEZHONG TECHNOLOGY	1
<input type="checkbox"/> UATC	1
<input type="checkbox"/> VOLKSWAGEN	1
<input type="checkbox"/> WIPRO	1
<input type="checkbox"/> ZOOX	1



Essential

Yes



Advanced

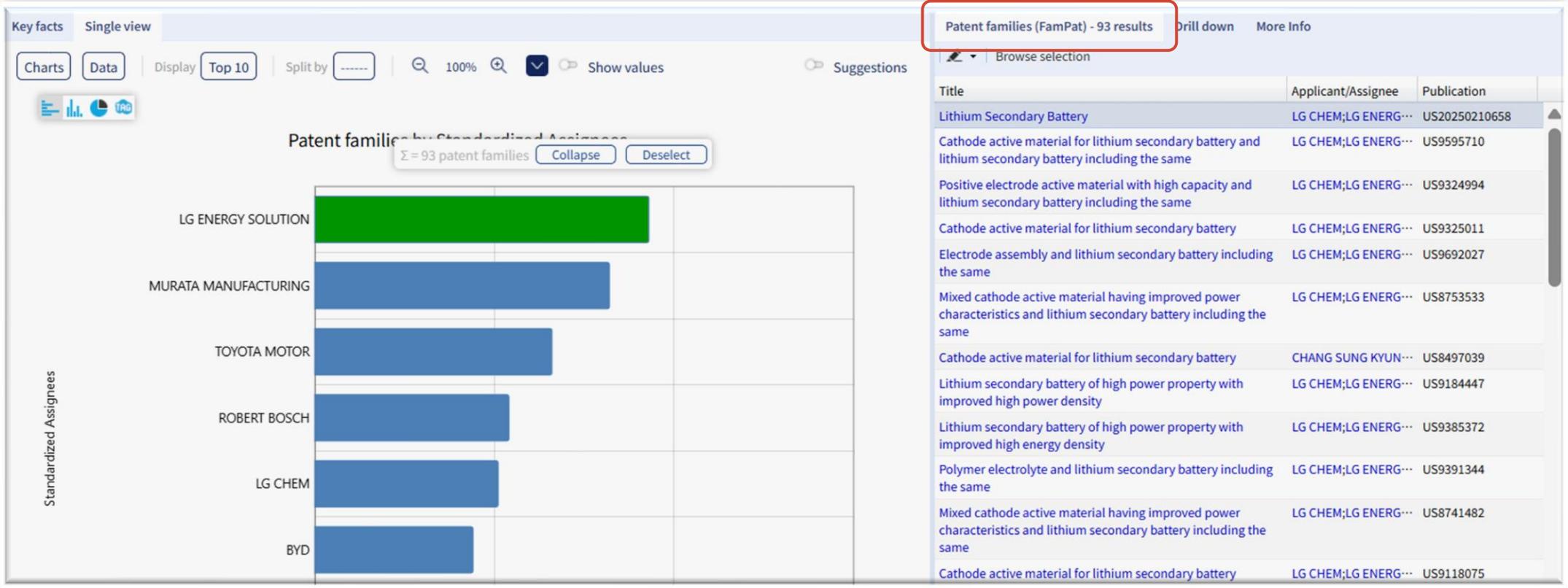
Yes



Premium

Yes

SIMPLE SELECTION



Essential

Yes



Advanced

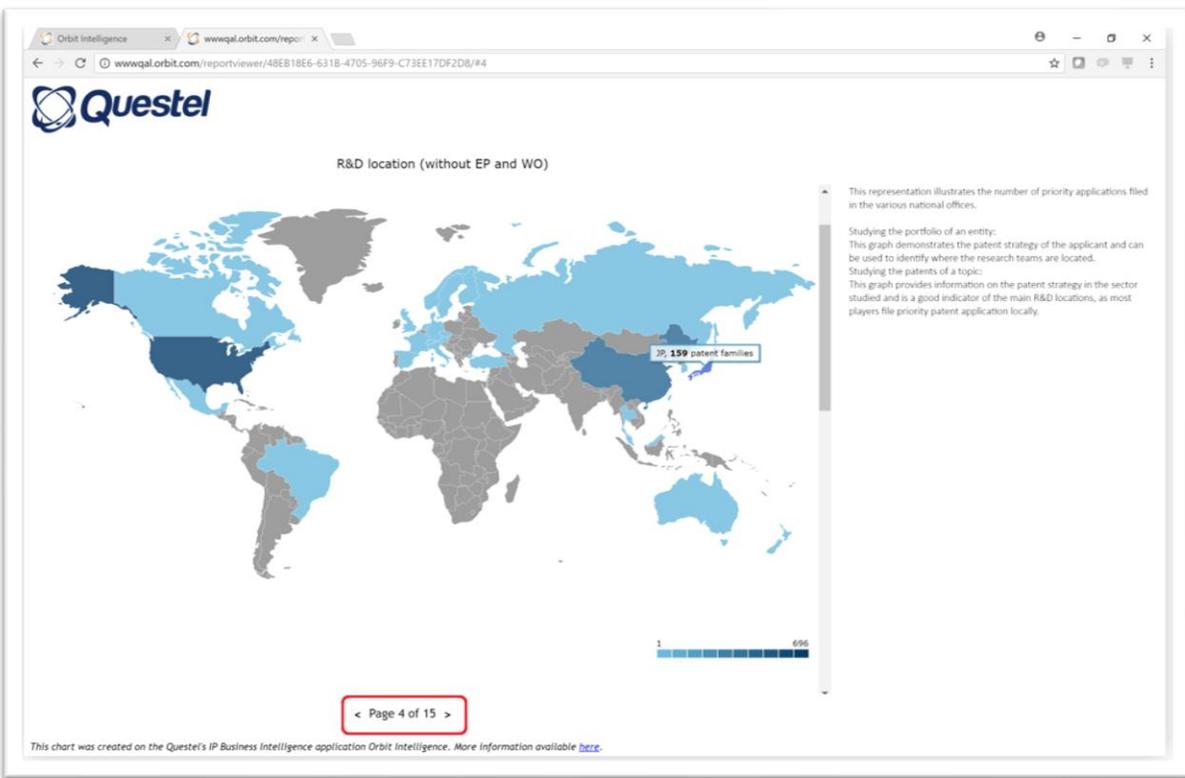
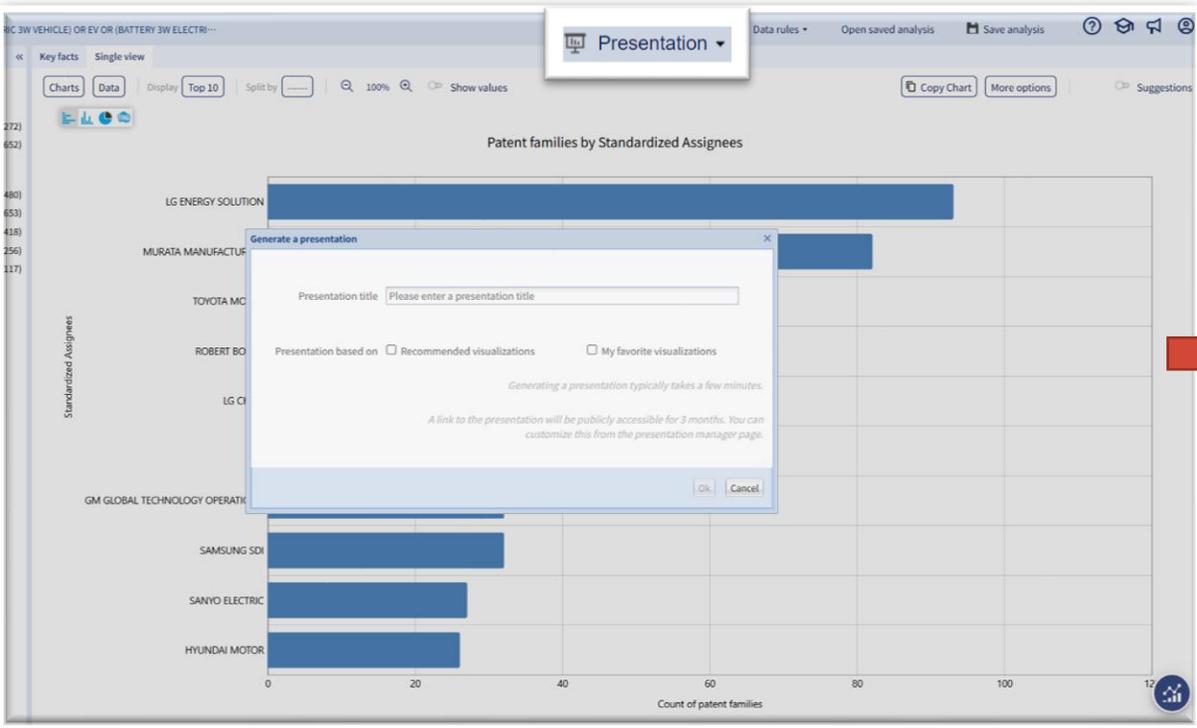
Yes



Premium

Yes

ONE CLICK REPORT



[Generate a presentation article](#)



Essential

Yes



Advanced

Yes



Premium

Yes



Preview Chemistry table Sophia Lab Image Claims Description Key content Fulltext Kwic Citations Legal status

Battery monitoring system and method for electric or hybrid aircrafts

Protected countries
Granted: CH, CN, DE, EP, FR, GB, SI

Abstract
This disclosure describes at least embodiments of an aircraft monitoring system for an electric or hybrid airplane. The aircraft monitoring system can be constructed to enable the electric or hybrid aircraft to pass certification requirements relating to a safety risk analysis. The aircraft monitoring system can have different subsystems for monitoring and alerting of failures of components, such as a power source for powering an electric motor, of the electric or hybrid aircraft. The failures that pose a greater safety risk may be monitored and indicated by one or more subsystems without use of programmable components.

List of publications
Compare patents

Application number: 2018WO/184096 Date: 2018-12-28 Register

WO2019/211659 A1 - Published application with search report

Review with Sophia Document Translate Edit Pdf



Select Title

1 Surgical robotic system

The invention relates to a surgical robotic system comprising: --a base (1); --a robotic arm (2) coupled to the base (1) and movable between: (i) an extended position wherein said at least one stabilization assembly (4) comprises a lockable foot (41) and a locking mechanism (43, of a force onto the base (1) in a direction substantially parallel to the ground so as to disengage the

Chat with patent publications for extracting key information

Family view - 13/21

US20200317357 A1
US1054866 B2
WO2020/208527 A1

Power supply storage and fire management in electrically-driven aircraft

Abstract
An electric power apparatus is disclosed for use in powering an electric vehicle with an exhaust channel. The electric power apparatus can include a battery housing and multiple cell tubes. The multiple cell tubes can support multiple battery cells within the multiple cell tubes so that individual of the multiple battery cells may be positioned within individual of the multiple cell tubes. The multiple cell tubes can be supported by the battery housing and direct combustion components from any fires in the multiple battery cells in a common direction. The multiple battery cells can each be self-contained and removable from the multiple cell tubes. The multiple battery cells can be electrically connected to power a motor that propels a vehicle housing, and the vehicle housing can support the battery housing and the motor.

Protected countries
Granted: US

List of publications
Compare patents

Application number: 2020US-084295 Date: 2020-04-01 Register

US20200317357 A1 - Application published 2020-10-08

US1054866 B2 - Granted patent as second publication 2020-12-01

WO2020/208527 A1 - Published application with search report 2020-10-15

Inventor: DEMONT SEBASTIEN, SUMMERHATTER FRANCO, LUISIER SEBASTIEN

Applicant/Assignee: HSS

Re-assignment: 2020 Present HSS Original

Representative: (US1054866) Knobbe, Martens, Olson & Bear LLP (WO2020/208527) PATS SA [CH]

Priority Numbers & Dates: 2019US-62830691 2019-04-08, 2020US-10842959 2020-04-07

Technology domain: Electrical machinery, apparatus, energy; Transport

IPC codes: B60L-05/04, B64D-027/24, H01M-002/04, H01M-002/12, H01M-002/19, H01M-002/20, H01M-010/613, H01M-010/625, H01M-010/655, H01M-010/656, H01M-010/652

CPC codes: B60K-001/00, B60K-001/04, B60K-2001/005, B60L-05/04, B60V-2200/51, B60V-2410/10, B64D-027/33, B64D-027/357, B64D-031/18, B64D-033/04, B64D-045/00, B64D-2221/00, H01M-002/04/47, H01M-002/10/08, H01M-002/10/04, H01M-002/12/04, H01M-002/20/08, H01M-010/613, H01M-010/625, H01M-010/655, H01M-010/656, H01M-010/652, H01M-002/12/04, H01M-002/20/08, H01M-010/613, H01M-010/625, H01M-010/655, H01M-010/656, H01M-010/652

Ask Sophia Document about patent text

Prompt library

While we strive for accuracy, errors may occur. Do not rely solely on AI for critical decisions.



Essential

No



Advanced

Yes



Premium

Yes

Que

*credits applicable



Menu Explorer << Sophia search

- Searches
 - Easy search
 - Advanced search
 - Sophia search
 - Number search
 - Biosequence search
- My session
 - Search history
 - Search results
- My searches
 - My saved searches
 - My alerts
- My recent lists
 - Relevant Patents list (13/18)
 - test List (2/8)
 - test list (1/5)

Sophia Search

New **AI-based** search by Questel - developed by our team of AI experts - please note that for Features extraction, input text is sent to OpenAI in accordance with our **AI policy**

The present invention relates to a milbemycin for use in control, treatment and/or prevention of infections with nematodes, preferably filariae, more preferably *Dirofilaria immitis* which are resistant to at least one other macrocyclic lactone anthelmintic. The present invention further relates to the use of milbemycins for stimulating attachment of polymorphonuclear neutrophils (PMNs) and/or peripheral blood mononuclear cells (PBMCs) to larvae of nematodes, as well as to a method for stimulating attachment of PMNs and/or PBMCs to larvae of nematodes. In a further aspect, the present invention relates to an in vitro assay for determining and/or characterizing an agent for control, treatment and/or prevention of an infection with nematodes.

⚡ Extract features ⚙️ Prefilters = 100 results

✓ Optimal text size 748/3000

🔍 Search

Features

6 features selected for improved search and feature-to-text matching. [Clear](#)

- Milbemycin Application**
Milbemycin is used for the control, treatment, and prevention of nematode infections, particularly those resistant to other macrocyclic lactone anthelmintics.
- Targeted Nematode Species**
The method specifically addresses infections caused by filariae, with a preference for *Dirofilaria immitis*.
- Resistance Management**
The approach is designed to be effective against nematodes that exhibit resistance to at least one other macrocyclic lactone anthelmintic.
- Immune Cell Attachment Stimulation**
Milbemycins are employed to stimulate the attachment of polymorphonuclear neutrophils (PMNs) and/or peripheral blood mononuclear cells (PBMCs) to nematode larvae.
- Method for Immune Stimulation**
A method is provided for stimulating the attachment of PMNs and/or PBMCs to nematode larvae.
- In Vitro Assay Development**
An in vitro assay is established for determining or characterizing agents for the control, treatment, or prevention of nematode infections.

Preview Chemistry table Sophia Lab Features Standard Image Claims Key

1. Milbemycin Application Partially disclosed

Milbemycin is used for the control, treatment, and prevention of nematode infections, particularly those resistant to other macrocyclic lactone anthelmintics.

Snippet #1 - US20060068020 A1 - Description [0011]

The present invention provides a method of treating helminthiasis in mammals, which comprises administering an anthelmintically effective amount of a pharmaceutical formulation comprising drugs such as ivermectin for tapeworm, hookworm, roundworm and heartworm of domestic animals and farm animals.

Snippet #2 - US20060068020 A1 - Description [0020]

The multidrug composition comprises a macrocyclic lactone, preferably ivermectin, with other actives.

Snippet #3 - US20060068020 A1 - Description [0061]

The antiparasitic agents of this invention find primary use in treatment and/or prevention of helminthiasis including nematodes, with efficacy against resistant and normally sensitive species.

2. Targeted Nematode Species Disclosed

The method specifically addresses infections caused by filariae, with a preference for *Dirofilaria immitis*.

Snippet #1 - US20060068020 A1 - Description [0005]

New generation AI-semantic search including features disclosure



Essential

Yes



Advanced

Yes

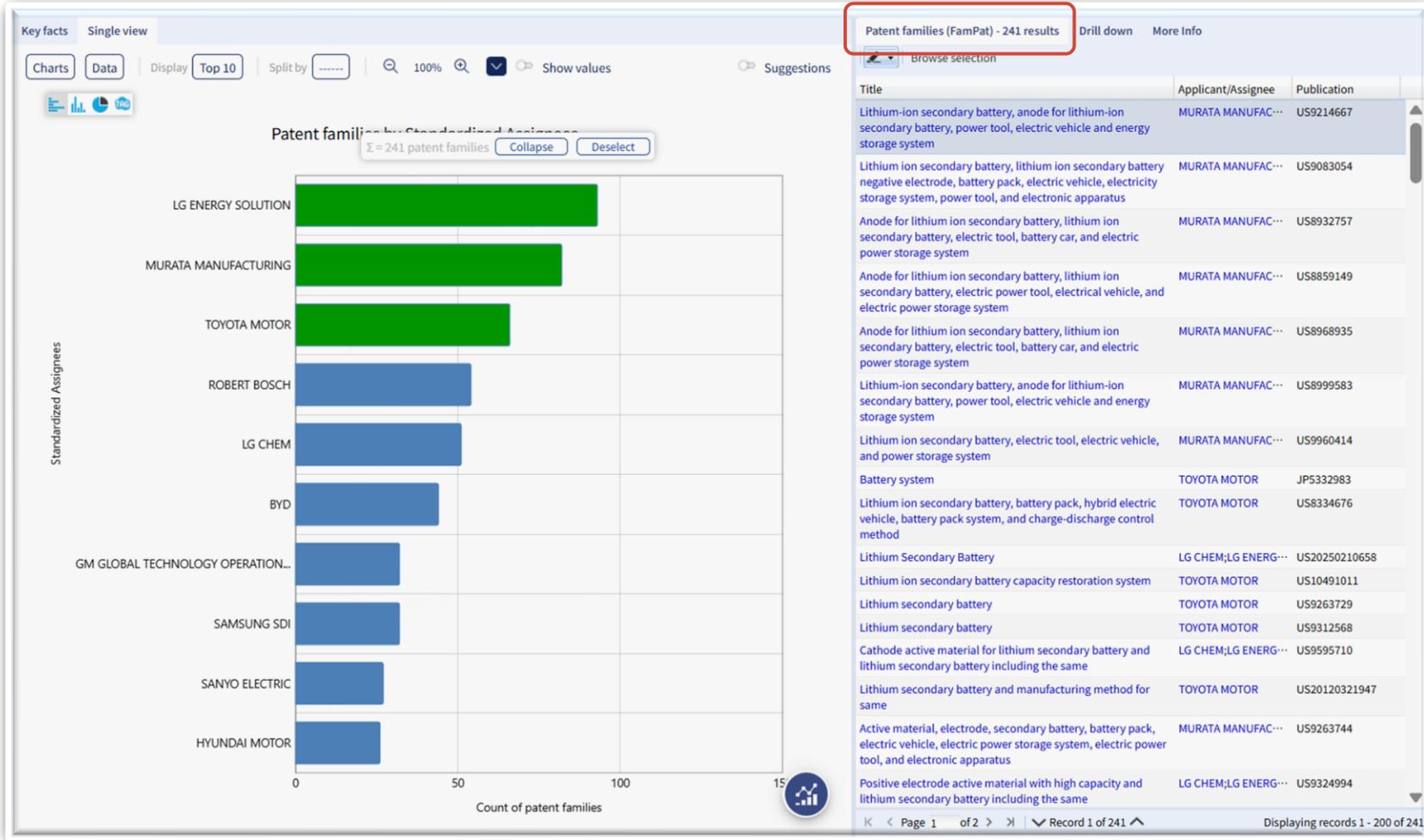


Premium

Yes

Features Extraction and Prefilters only available for Advanced and Premium users

MULTIPLE SELECTION



Essential

No



Advanced

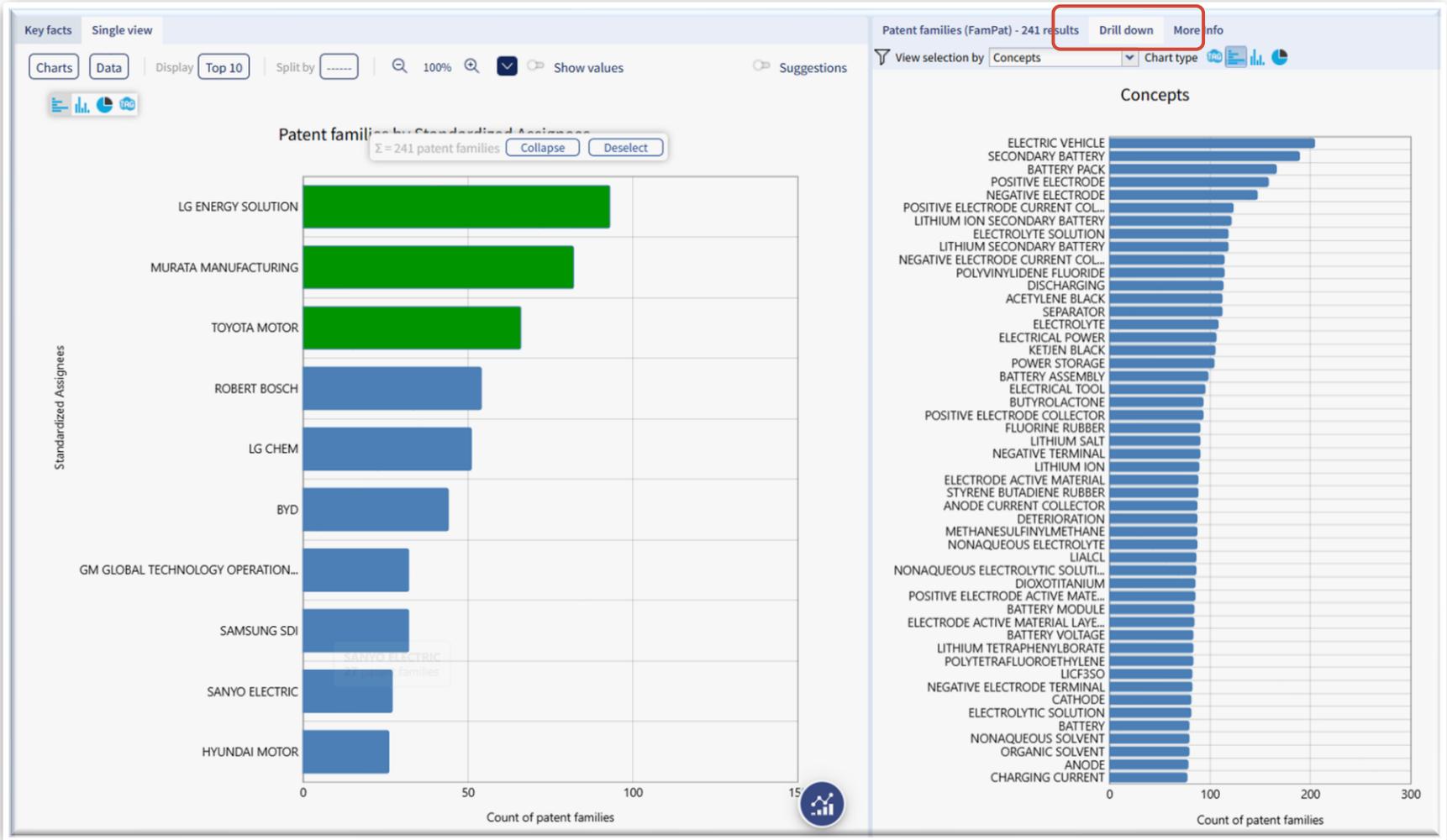
Yes



Premium

Yes

DRILL DOWN



Essential

No



Advanced

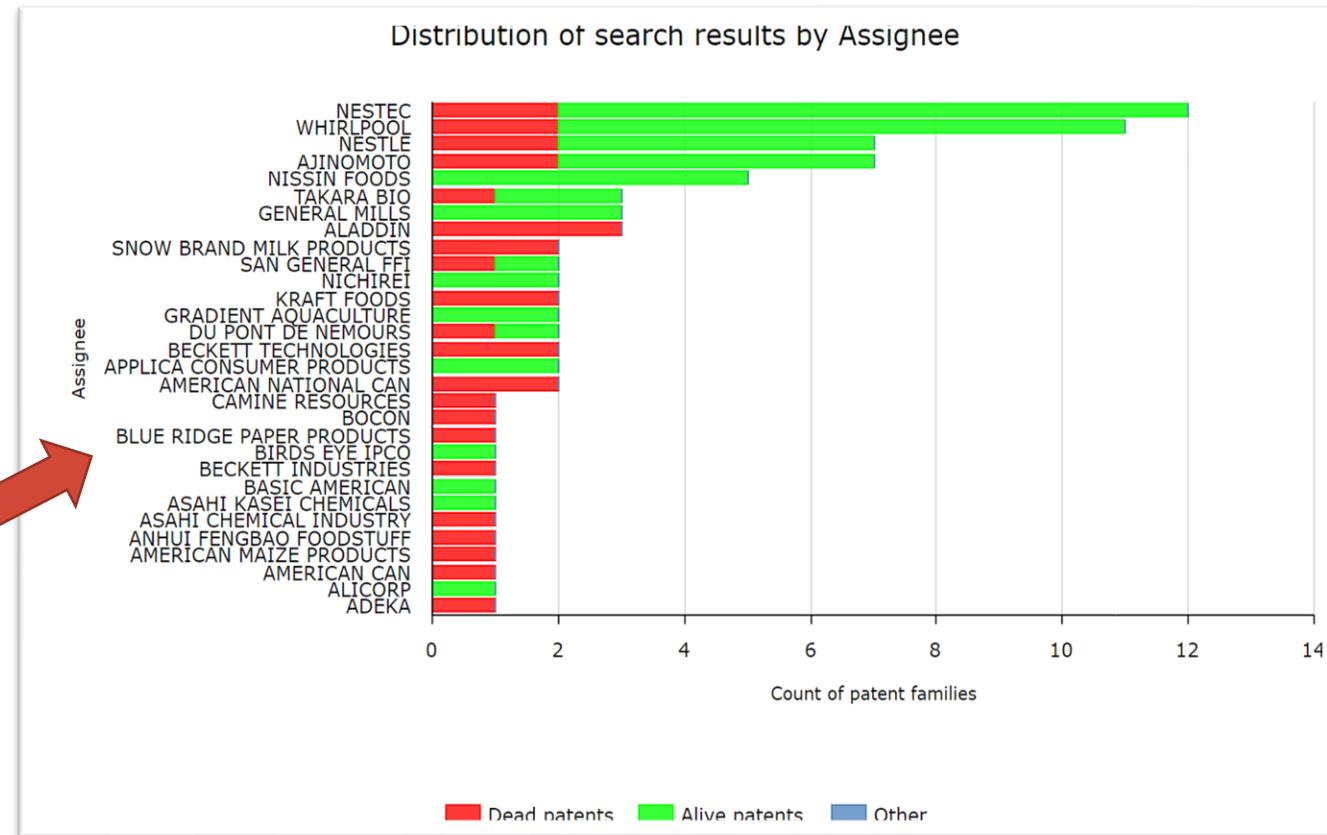
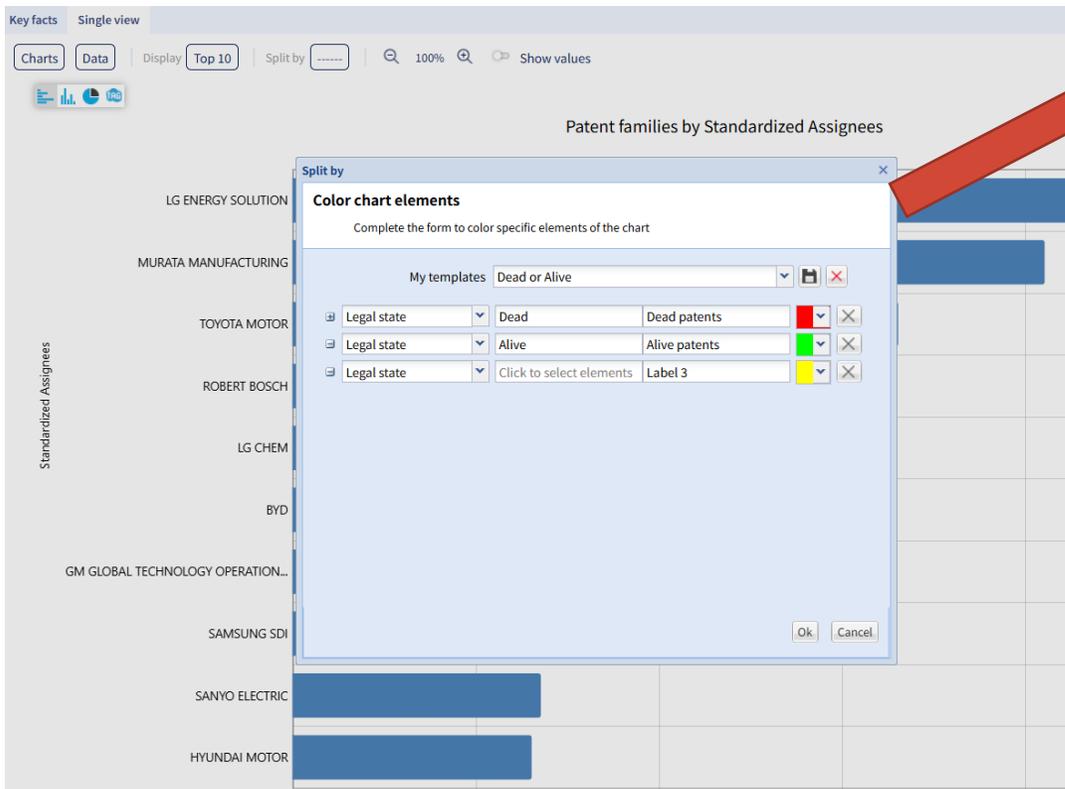
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Premium

Yes

COLOR BY (INCLUDING LISTS OR WORKFILES)



Essential

No



Advanced

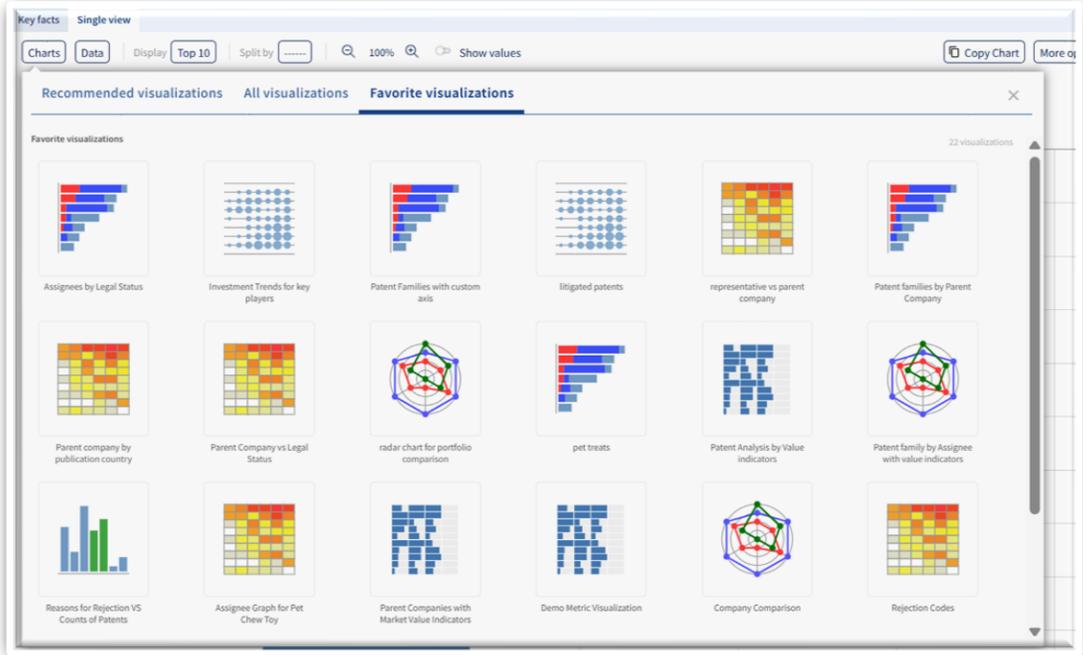
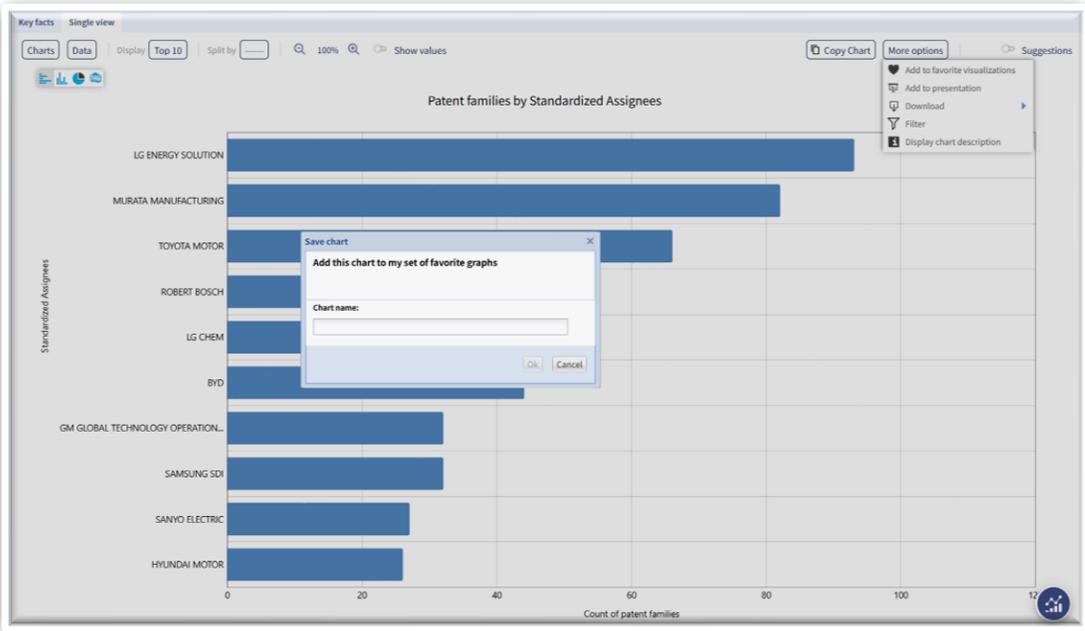
Yes



Premium

Yes

SAVE CHART TEMPLATES AND AUTOMATE REPORTS CREATION WITH TEMPLATE GRAPHS



Essential

No



Advanced

Yes



Premium

Yes

AI CLASSIFIER

Sort out relevant documents with an AI-Classifier

The screenshot shows a table of documents with the following columns: #, Auto-class, Title, Publication, 1st app. date, Applicant/Assignee, and Archive date. Three documents are visible:

#	Auto-class	Title	Publication	1st app. date	Applicant/Assignee	Archive date
12	73%	Heteroatom substituted cyclic and alkyl amines as activators of serotonin receptors	US20240116896	2023-09-06	AIT THERAPEUTICS ATAI LIFE SCIENCES VIRIDIA LIFE SCIENCES	2025-08-12
13	73%	A process for obtaining a purified psychoactive alkaloid	WO2025/052309	2023-09-08	PSYENCE UK GROUP PSYENCE GROUP	
14	73%	Alkyl quaternary ammonium tryptamines and their therapeutic uses	US20240116867	2021-10-06	CAMTECH	
15	73%	Basic extraction of psychoactive compounds from psychoactive organisms	US11642385	2021-06-14	PSILO SCIENTIFIC	2025-08-12

The 'Auto-classifier monitor' interface displays the following data:

Last run - 4 Feb 2021 15:56

	relevant	not relevant	
👤	10	0	10
📄	13	7	20
	23	7	30

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

Buttons: [Disable classifier](#), [Run classifier](#)



Essential

No



Advanced

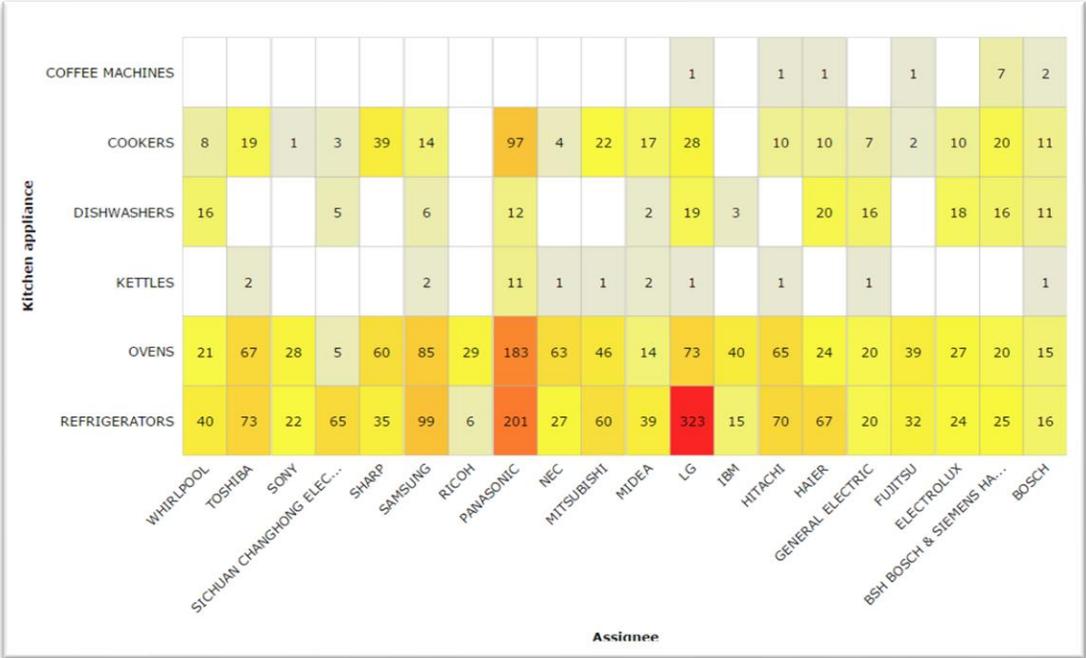
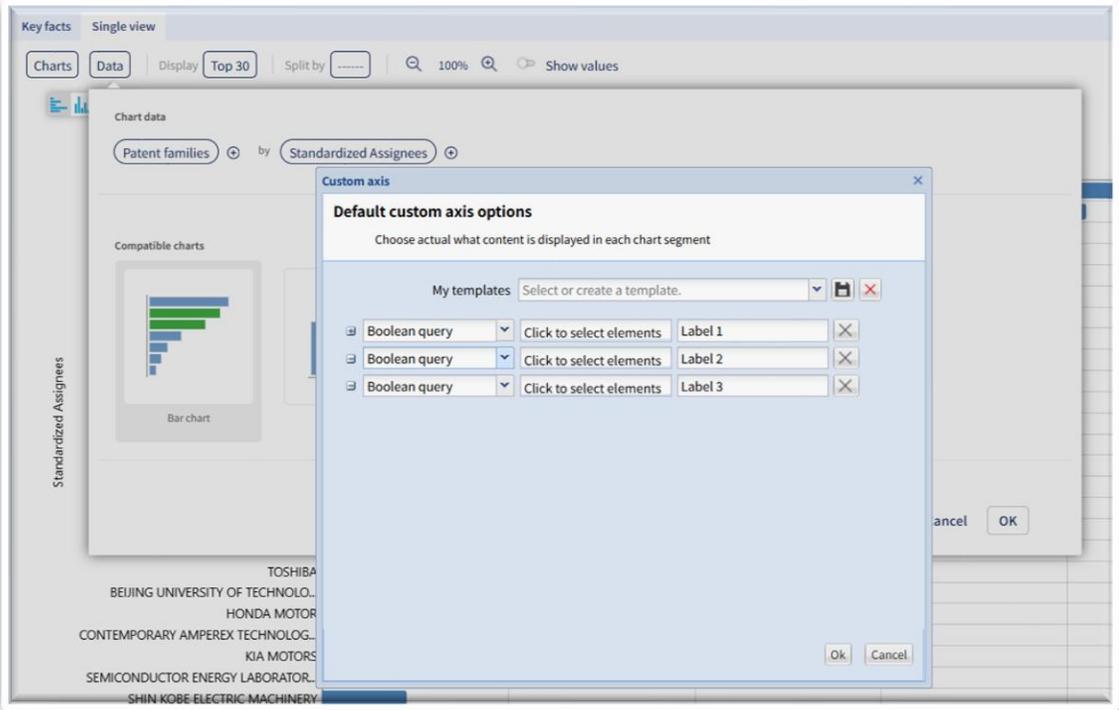
No



Premium

Yes

CUSTOM AXIS



Essential

No



Advanced

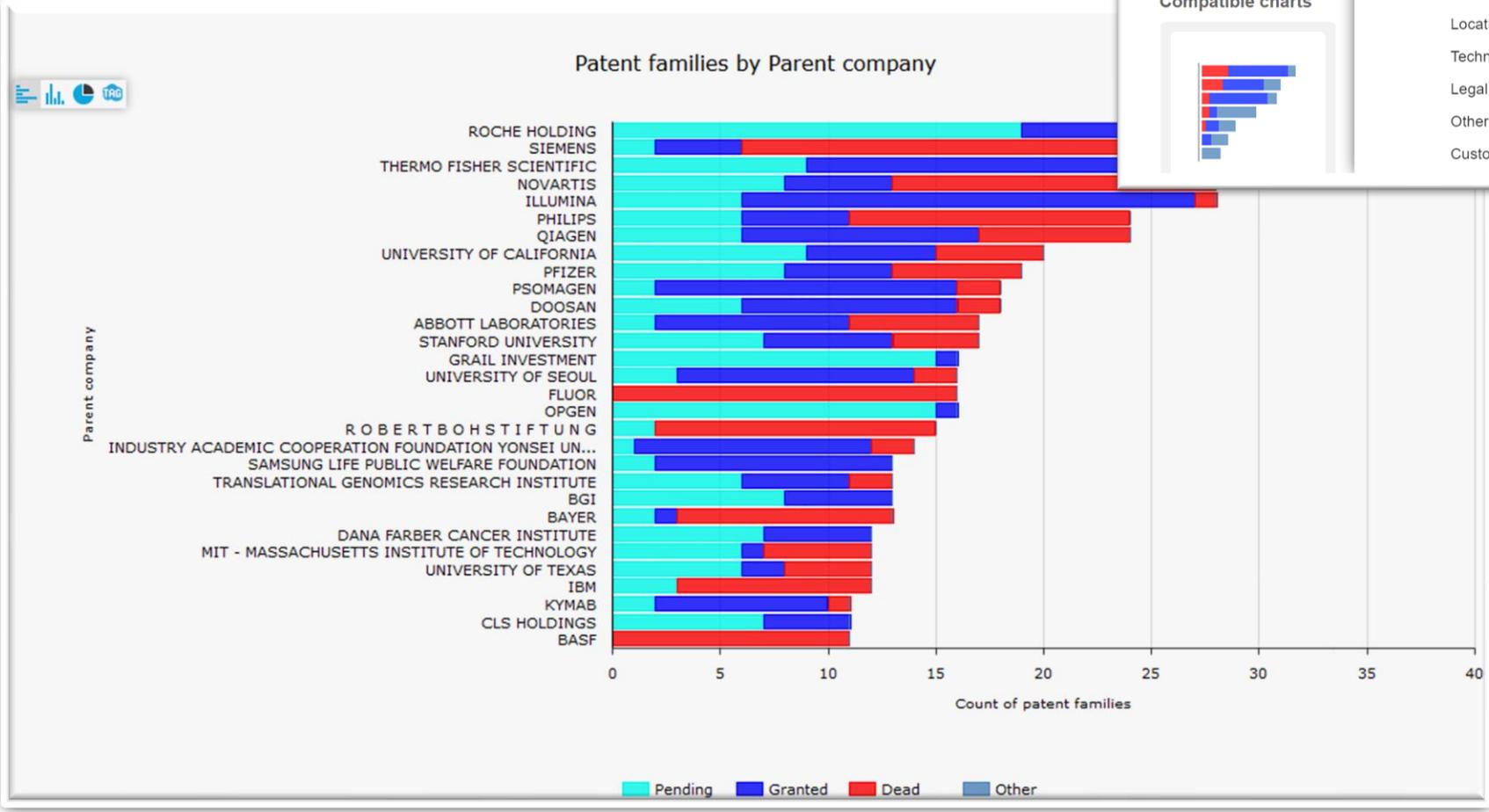
No



Premium

Yes

GROUP BY PARENT COMPANY



Data | Display | Top 30 | Split by | Legal status | 100%

Chart data: Patent families by Assignees

Compatible charts:

Assignee	Assignees
<input checked="" type="checkbox"/> Inventor	other assignees
<input type="checkbox"/> Date	Other assignees
<input type="checkbox"/> Location	<input checked="" type="checkbox"/> Assignees The current owner of this patent family.
<input type="checkbox"/> Technology	<input checked="" type="checkbox"/> Parent company The top parent company associated with the patent assi...
<input type="checkbox"/> Legal status	<input type="checkbox"/> Representative The top parent company associated with the patent assignee.
<input type="checkbox"/> Other	
<input type="checkbox"/> Custom axis	

[Assignee names article](#)



Essential

No



Advanced

No

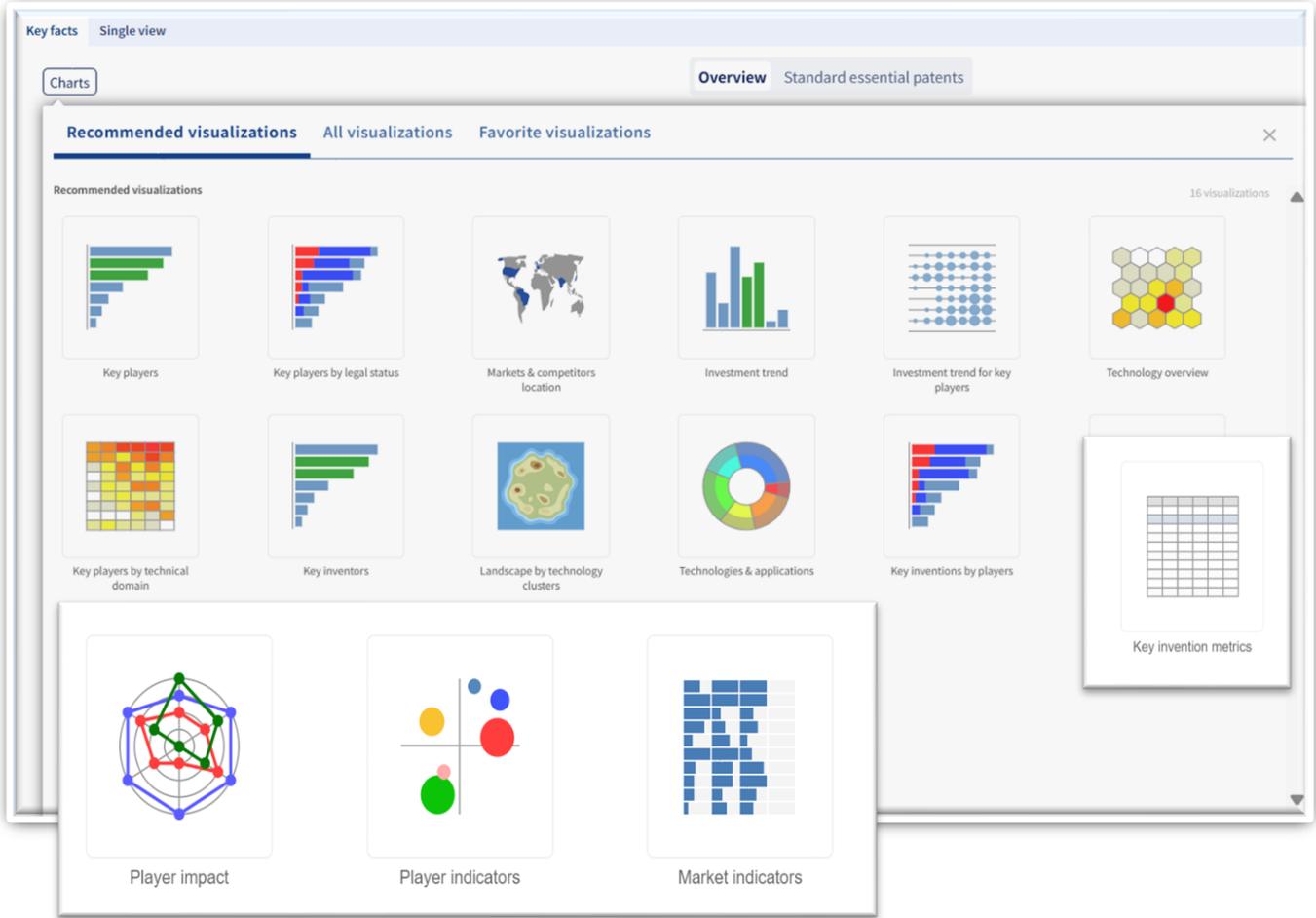


Premium

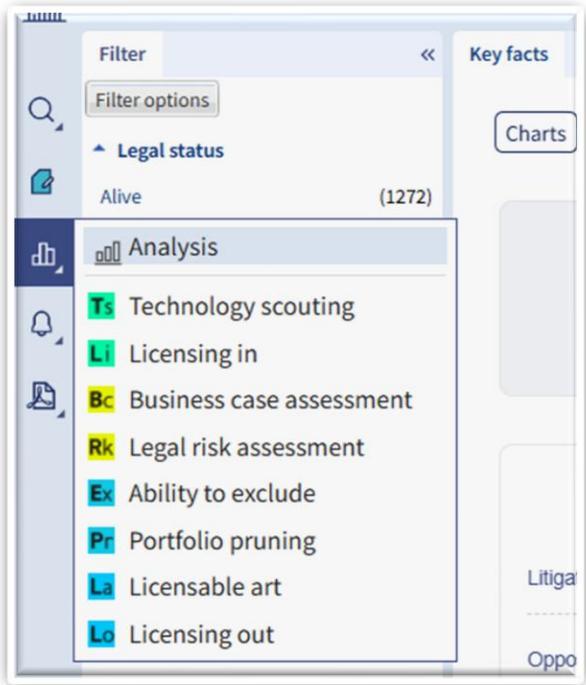
Yes

DRIVE BUSINESS DEVELOPMENT THROUGH DATA-INFORMED DECISIONS

Metrics in the analysis



Evaluation Modules



Essential

No



Advanced

No



Premium

Yes

KEY METRICS IN ANALYSIS

Title	Publication number	1st Publ. date	All fwd cit.	Geographic cov.	Generality index	Originality index	Litigated	Opposed
<input type="checkbox"/> A retail method over a wide area network	EP1031106	1999-02-18	330	3	0.84	0.81	NO	NO
<input type="checkbox"/> Hybrid card with antenna and manufacturing equipment	EP1331602	1995-08-18	242	1	0.85	0.7	NO	NO
<input type="checkbox"/> Using a high level programming language with a microcontroller	US9400668	1998-05-07	242	1	0.86	0.84	YES	YES
<input type="checkbox"/> Self-referenced tracking	US7301648	2001-08-02	238	1	0.93	0.88	NO	NO
<input type="checkbox"/> Apparatus and method for implementing ipsec transforms within an integrated circuit	US6708273	2004-03-09	214	1	0.74	0.8	NO	NO
<input type="checkbox"/> Usb securing device with keypad	US7111324	2001-11-22	213	1	0.89	0.78	NO	NO
<input type="checkbox"/> Secure network file access control system	JP5067771	2004-01-13	212	3	0.73	0.78	NO	YES
<input type="checkbox"/> Method and arrangement for secure tunneling of data between virtual routers	US6438612	2002-05-23	209	1	0.77	0.64	NO	NO
<input type="checkbox"/> Usb-compliant personal key with integral input and output devices	JP5014504	2000-07-20	201	2	0.85	0.87	NO	NO
<input type="checkbox"/> RFID-Transponder with printable surface	EP1035503	2000-07-23	192	4	0.94	0.93	NO	YES
<input type="checkbox"/> Motion tracking system and method	US7725253	2004-02-19	188	1	0.95	0.88	NO	NO
<input type="checkbox"/> Intelligent multimedia conference establishment	JP4520690	2003-03-14	167	4	0.85	0.82	NO	NO
<input type="checkbox"/> Motion-tracking	IL152359	2001-11-01	163	3	0.96	0.87	NO	YES
<input type="checkbox"/> License management system and method with multiple license servers	US7716348	2001-03-15	155	1	0.77	0.7	NO	NO
<input type="checkbox"/> Secure file system server architecture and methods	JP4896400	2004-04-22	152	3	0.66	0.76	NO	NO
<input type="checkbox"/> Method for controlling an in-flight entertainment system	EP1504604	2003-11-16	152	4	0.92	0.91	NO	NO
<input type="checkbox"/> System and method for preventing identity theft using a secure computing device.	EP1692667	2005-03-31	151	4	0.84	0.84	NO	NO
<input type="checkbox"/> Fingerprint image optical input apparatus	KR100668361	2000-04-20	145	1	0.89	0.77	NO	NO
<input type="checkbox"/> Dual mode smart card and associated methods	JP3811750	2002-04-18	141	4	0.84	0.61	NO	YES
<input type="checkbox"/> High speed data stream pattern recognition	US7240040	2003-03-13	136	1	0.74			

Metrics in the analysis



Essential

No



Advanced

No



Premium

Yes



PATENT IMPACT, PORTFOLIO VALUE, ESTIMATED COST, COMPANY REVENUE

Charts		Settings			Impact	Market cov.	Patent value	Estimated cost 2019	Originality	Litigated	Opposed
<input type="checkbox"/>	Title	Applicant/Assignee	Publication number	1st app. date							
<input type="checkbox"/>	Cable header connector	TE CONNECTIVIT	US8449330	2011-12-08	2.04	2.19	4.83	1.3K	0.33	NO	NO
<input type="checkbox"/>	Connector assembly for end mounting panel members	TE CONNECTIVIT	US7387521	2006-12-22	1.42	2.68	4.83	13.1K	0.16	NO	NO
<input type="checkbox"/>	Electrical connector assembly with interlocking upper and lower shells	TE CONNECTIVIT	CN1326246	2000-05-31	2.45	1.87	4.83	2.3K	0.45	NO	NO
<input type="checkbox"/>	Electrical connector having customizable circuit board wafers	TE CONNECTIVIT	WO200157966	2000-02-03	2.31	1.98	4.83	4.4K	0.5	NO	NO
<input type="checkbox"/>	Checkable plug-in connection and method for checking the connection state of a plug-in connection	TE CONNECTIVIT	WO2010012627	2008-07-28	1.51	2.61	4.82	4K	0.24	NO	NO
<input type="checkbox"/>	Electrical connector assembly comprising an electrical connector with connector position assurance device	TE CONNECTIVIT	WO2013148298	2012-03-28	2.22	2.04	4.82	726	0.43	NO	NO
<input type="checkbox"/>	High speed docking connector	TE CONNECTIVIT	US6540559	2001-09-28	2.78	1.6	4.81	1.2K	0.42	NO	NO
<input type="checkbox"/>	Contactless connector	TE CONNECTIVIT	WO2013095940	2011-12-23	1.85	2.34	4.81	2.7K	0.87	NO	NO
<input type="checkbox"/>	Storage-stable aqueous solutions of chlorine dioxide and methods for preparing and using them	TE CONNECTIVIT	US20070111612	2006-09-14	1.82	2.35	4.81	10.4K	0.91	NO	NO
<input type="checkbox"/>	Header assembly	TE CONNECTIVIT	US20120208400	2011-02-15	1.63	2.5	4.81	2K	0.49	NO	NO
<input type="checkbox"/>	Blade and receptacle power connector	TE CONNECTIVIT	CA2676905	2008-09-12	1.44	2.65	4.8	3.8K	0.54	NO	NO
<input type="checkbox"/>	Wrap-around cable sleeve assemblies	TE CONNECTIVIT	US20110100671	2010-03-24	1.41	2.67	4.8	3.2K	0.86	NO	NO
<input type="checkbox"/>	Arc-less electrical connector	TE CONNECTIVIT	BRPI0203036	2001-12-17	2.07	2.15	4.8	7.7K	0.87	NO	NO
<input type="checkbox"/>	Contact means for attaching an end of a cable	TE CONNECTIVIT	WO2011101308	2010-02-22	1.62	2.5	4.79	2.6K	0.55	NO	NO
<input type="checkbox"/>	Power terminal connector	TE CONNECTIVIT	US8628335	2012-12-07	1.62	2.47	4.76	3.4K	0.79	NO	NO
<input type="checkbox"/>	High speed electrical connector	TE CONNECTIVIT	US20030220021	2002-09-25	2.91	1.46	4.76	3.1K	0.54	NO	NO
<input type="checkbox"/>	Lighting device	TE CONNECTIVIT	WO2010132099	2009-05-14	1.86	2.28	4.75	6.8K	0.88	NO	NO
<input type="checkbox"/>	Electrical plug and method of fitting the plug	TE CONNECTIVIT	WO2006013027	2005-07-22	1.9	2.24	4.74	5.4K	0.46	NO	NO
<input type="checkbox"/>	Jumper connector for a lighting assembly	TE CONNECTIVIT	EP2216858	2009-02-06	1.82	2.29	4.73	1.4K	0.92	NO	NO
<input type="checkbox"/>	Contact bridge with blow magnets	TE CONNECTIVIT	EP2197009	2008-12-12	1.56	2.49	4.73	3.4K	0.34	NO	NO
<input type="checkbox"/>	LED light module	TE CONNECTIVIT	MX2011009021	2010-08-27	1.76	2.34	4.73	2.2K	0.86	NO	NO

Metrics in the analysis



Essential

No



Advanced

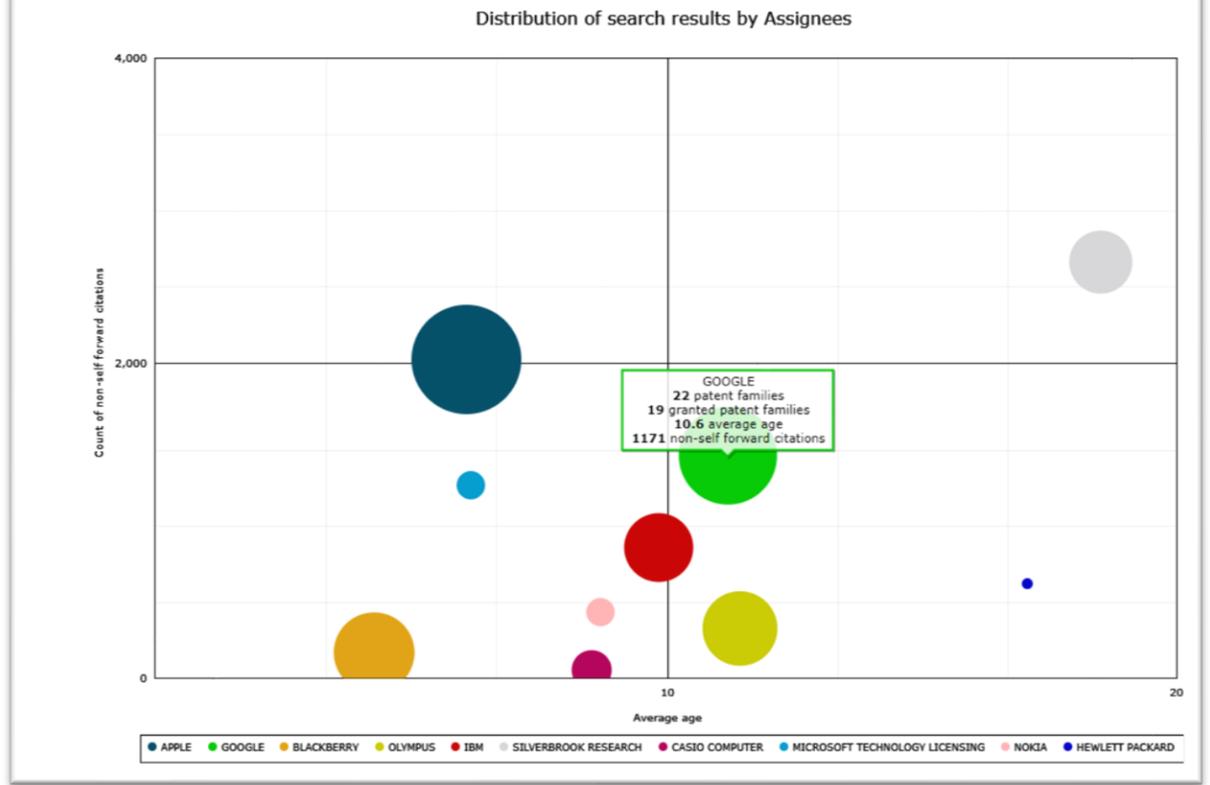
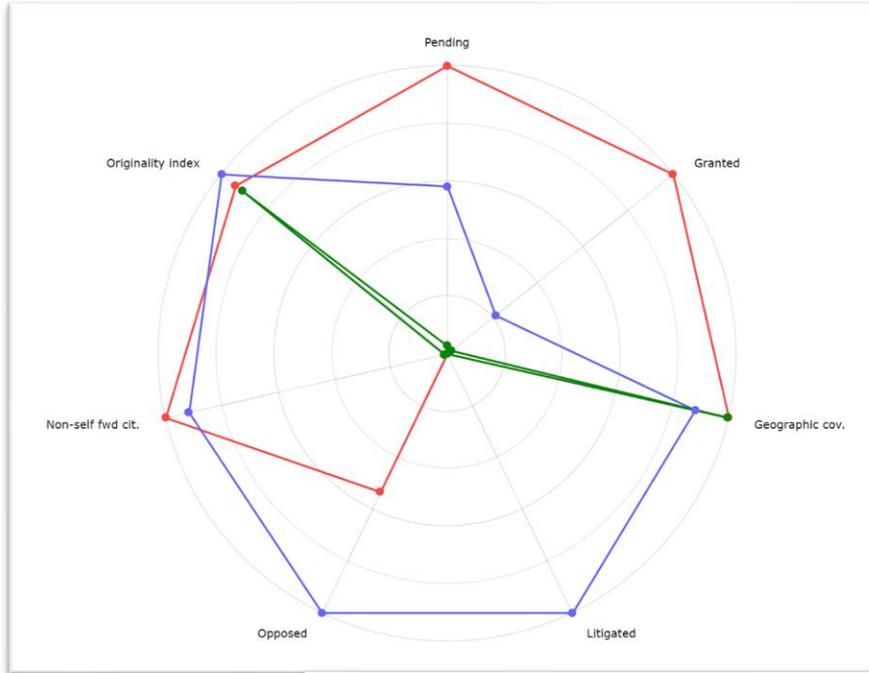
No



Premium

Yes

ADVANCED BENCHMARKING CHARTS



Metrics in the analysis

Questel

Players	Market indicators			
	Alive	Geographic cov.	Generality index	Age
HEWLETT PACKARD	1	1	0.8	17.9
CASIO COMPUTER	9	1.4	0.77	9.3
APPLE	6	3.2	0.77	11.9
KEY TRONIC	0	0	0.8	21.2
BEHAVIOR TECH COMPUTER	0	0	0.6	14.3
CALLAHAN CELLULAR	3	1.7	0.85	16.3
IGO	3	1.7	0.83	17
INTEL	3	4	0	3.3
MICROSOFT TECHNOLOGY LI...	1	3	0.8	4.7
MOBILITY CALIFORNIA	3	1.7	0.83	17



Essential

No



Advanced

No



Premium

Yes

WHITE SPACE ANALYSIS WITH THE LANDSCAPE MAP

Key facts Single view

Charts Data Display Top 30 Split by 100% Show values

Recommended visualizations All visualizations Favorite visualizations

Recommended visualizations

- Key players
- Key players by legal status
- Markets & competitors location
- Investment trend
- Key players by technical domain
- Key inventors
- Landscape by technology clusters

Landscape by technology clusters

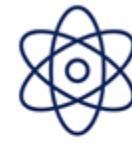


- [Understand and use a landscape map article](#)
- [Customize the landscape map article](#)



Essential

No



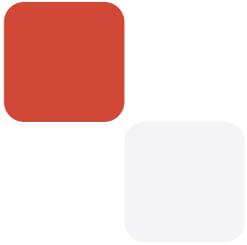
Advanced

No



Premium

Yes



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