

# PatentStrategies<sup>SM</sup>

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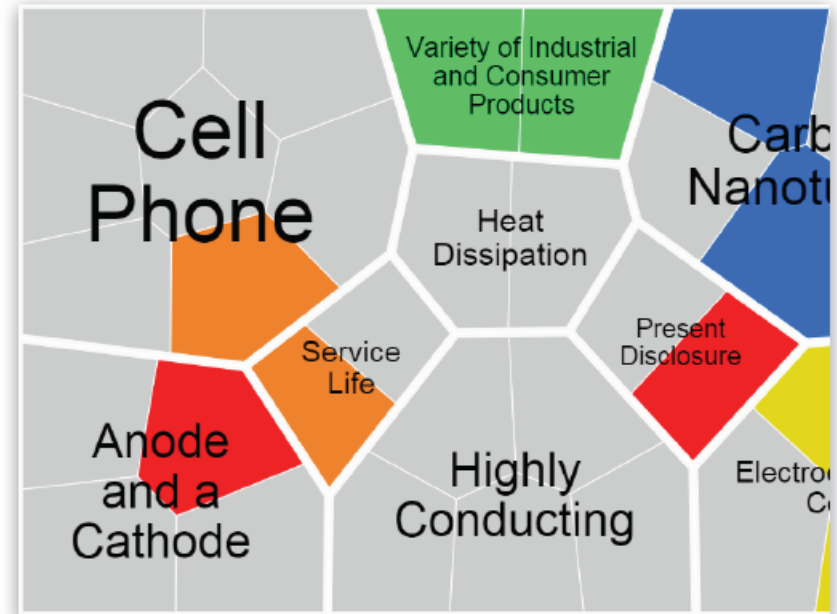
**LexisNexis IP Solutions**

# Introducing: PatentStrategies<sup>SM</sup>

**LexisNexis PatentStrategies** correlates more than 93 million worldwide patents with financial, litigation, market, and key business data to provide a complete picture of the intellectual property (IP) landscape. With constantly updated data from 102 patent jurisdictions, over 100 data sources, and more than 50 visualizations, you can uncover insight in minutes instead of days or weeks.

# Bringing Big Data Analysis to IP

- **Research & Innovation:** Explore freedom-to-operate, examine white space, prepare disclosures, and find technology collaborators
- **Licensing:** Find adjacent markets and prospects to license technology to or from and monetize under-utilized technologies
- **Competitive Analysis:** Examine the market, competitors, technology trends, and litigation
- **Litigation:** View litigation trends and predict threats, find invalidating prior art, and develop defense and assertion strategies
- **Acquisitions:** Scrutinize IP portfolios during M&A due diligence, find chain-of-title errors, perform gap analysis, and portfolio comparisons



- **Risk Management:** Drill into analytics to develop risk plans, strategy, and mitigation alternatives
- **Strategy:** Track and monitor IP investments, view market landscape, and find options to create competitive advantage

# Patent Strength

Search Results for > EP1334076 B1  
Fiber cement composite material using biocide treated durable cellulose fibers

Jump to 34 of 771

Overview Citations Description Patent Families Legal Status

Analyze Find More Like This Save Patent Generate Report

## Project Info

Not found in any active project

## Extended References

Not associated with any additional content

## Designated States

Active DE, FR, BE, SE, GB  
Expired  
View State Information

## Patent Overview

Status	Active
Links	Full Document Legal Status
Downloads	PDF
Application Number	EP20010979897
Priority Date	2000-10-17
Filed Date	2001-09-25
Publication Date	2006-08-23
Cur. Assignee	James Hardie International Finance B.V.
Orig. Assignee	JAMES HARDIE INTERNATIONAL FINANCE B.V.
Location	US
Inventors	Merkley, Donald J Luo, Caidian
# Claims	37
PTO Length	4.91 years
# Forward Citations	15
# Backward Citations	0
Strength	90th-100th Percentile

## Searches

Simple Family Members

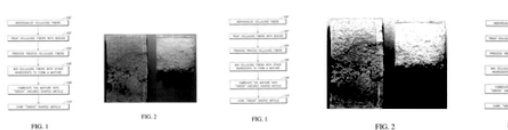
## CP Classifications

Main  
Other

## Abstract

A fiber cement composite material providing improved rot resistance and durability, the composite material incorporating biocide treated fibrous pulps to resist microorganism attacks. The biocide treated fibers have biocides attached to inner and outer surfaces of individualized fibers to protect the fibers from fungi, bacteria, mold and algae attacks. The biocides selected have strong affinity to cellulose and do not interfere with cement hydration reactions. This invention also discloses the formulation, the method of manufacturing and the final fiber cement products using the biocide treated fibers.

## Drawings from US06777103



## Claims

### Claim #1

A composite building material, comprising:  
a cementitious matrix;  
individualized cellulose fibers incorporated into the cementitious matrix, wherein the cellulose fibers are at least partially treated with a biocide chemical that inhibits microorganism growth inside the fibers; and  
at least one additional fiber material selected from untreated cellulose fibers, natural inorganic fibers, and synthetic fibers.

### Claim #1 Dependents

- The composite building material of Claim 1, wherein the biocide chemical is attached to inner and outer surfaces of the individualized fibers.
- The composite building material of Claim 1, wherein the chemical is selected from the group consisting of fungicides, algacides, mold and termite preservatives, and mixtures thereof.
- The composite building material of Claim 1, wherein the chemical comprises inorganic compounds selected from the group consisting of sodium, potassium, calcium, zinc, copper, and barium salts of carbonate, silicate, sulfate, halide, and borate; zinc carboxylate; boric acids; sodium dichromate; copper oxene; copper chrome arsenate (CCA); chromated copper borate (CBC); ammoniacal copper arsenate (ACA); ammoniacal copper zinc arsenate (ACZA); copper chromium fluoride (CFK); copper chromium fluoroborate (CCFB); and copper chromium phosphorous (CCP), and combinations thereof.
- The composite building material of Claim 1, wherein the chemical comprises organic compounds selected from the group consisting of propiconazole, tebuconazole, organochloride, quaternary ammonium compounds (AAC), tri-n-butyltin oxide (TBTO), tri-n-butyltin naphthenate (TBTN), didecyl/dimethylammonium chloride (DDAC), and mixtures thereof.
- The composite building material of Claim 1, wherein the chemical comprises about 0.01% to 20% of the dry weight of the treated cellulose fibers.
- The composite building material of Claim 1, wherein the cellulose fibers are made from cellulose pulps of a lignocellulosic material by a pulping process.

### Claim #7 Dependents

- The composite building material of Claim 7, wherein the fiber lengths are between about 0.5 micrometers and 100 micrometers.
- The composite building material of Claim 1, wherein the treated fibers comprise about 0.5% to 10% of the dry weight of the composite building material.
- The composite building material of Claim 1, wherein the cementitious matrix and the individualized cellulose fibers are combined to form a composite building material.

### Claim #10 Dependents

- The composite building material of Claim 10, further comprising an aggregate.
- The formulation of Claim 1 or 12, comprising about 10%-80% cement by weight.

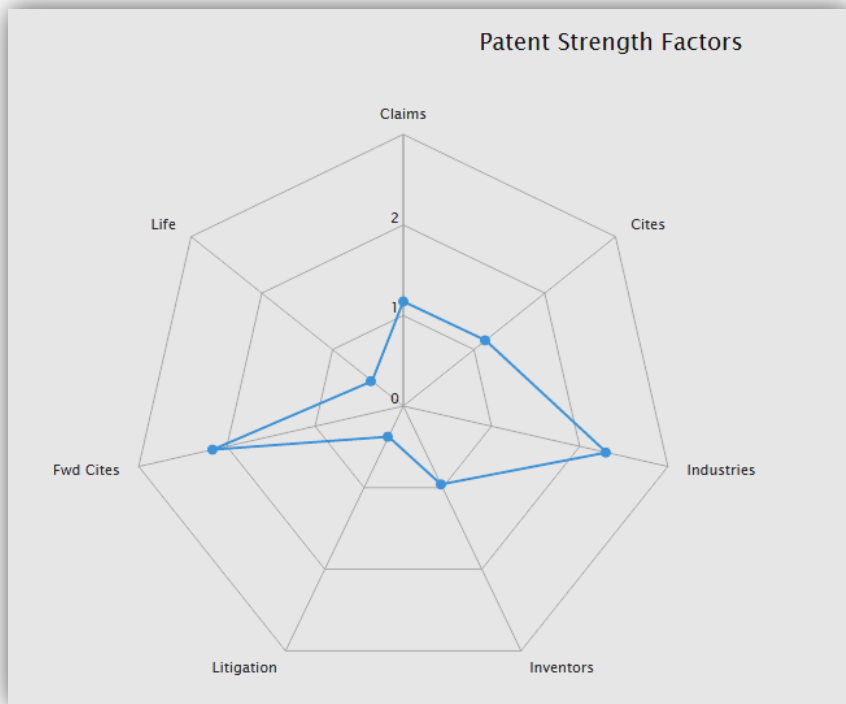
### Claim #12

An Example of a High Scoring patent

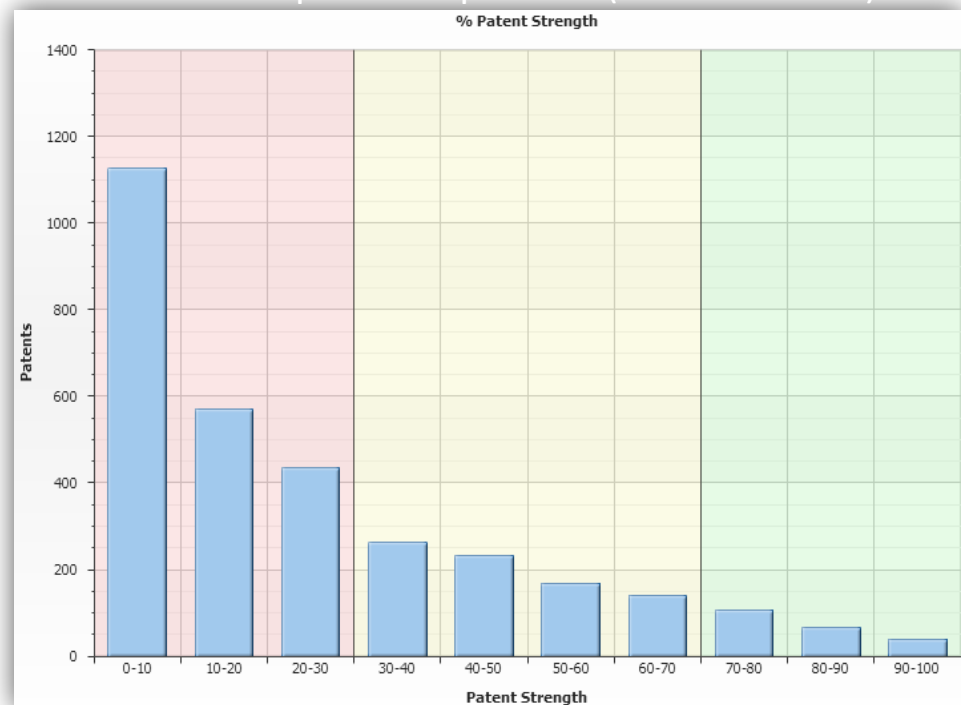
- Identify key/highest value patents
- Assess and compare portfolios

Scoring based on a study, by UC Berkeley & George Mason Law School of common factor of patents that have previously been involved in litigation

# Patent Strength



- PatentStrategies generally consider patent with 75+ score to be potentially valuable
- The PatentStrength algorithm, while proprietary, is based on a combination of claims, references, citations, litigation, and patent expiration (can customize).



• Prioritise research or analysis on patents with most potential

# Move Beyond Keyword Search

Many ways to create datasets beyond using computer techniques & algorithms

- Pull datasets quickly to give alternative views for analysis
- Compare results sets to quickly identify interesting documents, e.g. for licensing, invalidity, infringement, FTO

You are analyzing EP1334076B1

## Analyze by

- Classification Analysis
- Citation Mining
- Invalidation
- Infringement
- Forward Citations

James Hardie Industries SE

## Analyze by

- Similar Technologies
- In Assignment
- Out Assignment
- Hidden Assignments

You are analyzing 4685 Patents

## Analyze by

- View Patents
- Text Clustering
- PatentScape ↗
- Recommended by Classification
- Backward Citations
- Forward Citations
- Forward + Backward Citations
- Family Expansion

The screenshot shows the Patents StrategiesSM interface. At the top, it says "Logged in as: Richard Gynn | Settings | Help | Logout". Below that, there are tabs for "Projects" and "Playbooks". The main content area shows a patent entry for "EP0843763 B2" with a description: "of hard floor panels and method for manufacturing such floor panels". There are buttons for "Analyze", "Find More Like This", "Save Patent", and "Generate Report". A red circle highlights the "Find More Like This" button, which has a dropdown menu open showing "Patents" and "NPL".

Can create datasets around company portfolios, selected patents or single documents:

- Semantic analysis
- Analysis of similarity by classification
- Citation mining around a patent
- Citations around a portfolio

# Move Beyond Keyword Search

The screenshot displays a patent search interface with several refinement panels and search results. On the left, a 'Refine' panel includes sections for Keywords, Similarity, Source, Extended References, Organization, Organization Revenue, Original Organization, CP Classification, IP Classification, and US Classification. In the center, there are date-based filters for Filing Date, Priority Date, Publish Date, and Expiration Date, each with MM/DD/YYYY input fields. Below these are dropdown menus for Inventor and Inventor Location, and a Patent Strength slider. On the right, two search result tables are shown. The top table, titled 'Selected: 0 Patents', lists assignees like Vaelinge Innovation AB and Mohawk Industries, Inc. The bottom table, also titled 'Selected: 0 Patents', lists patent classes such as E000 0/00 and B000 0/00. Two red circles highlight 'X' icons in the right margin of the result tables. A red callout box at the top right contains text about mouse-driven refinement, and a blue callout box at the bottom right contains text about starting with broad results and refining them.

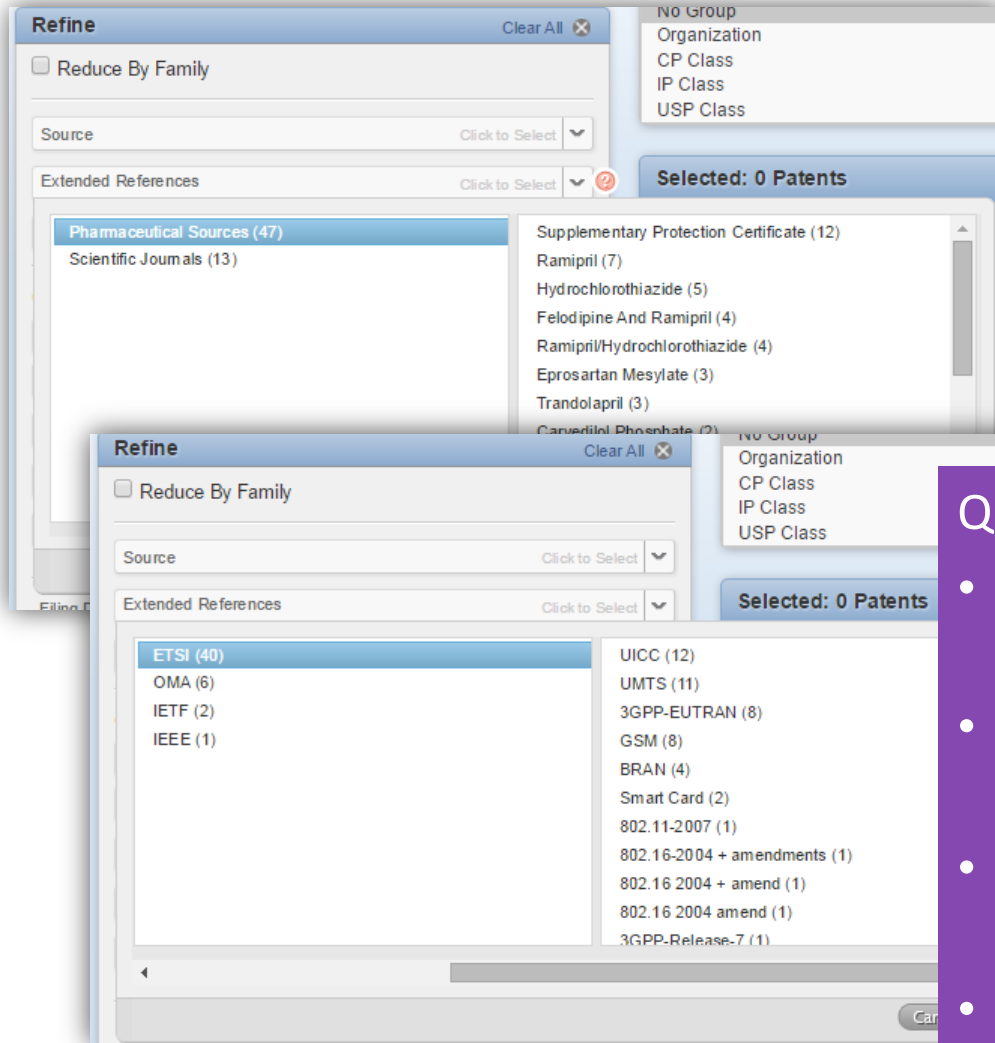
**Drive refinement using your mouse**

- Reduce need to build complex strategies
- Save time to get answers

**Start big and refine results e.g.**

- Using refine panel
- Grouping and deleting areas not required

# Extended References



- Extended References are references to a patent in non-patent documents, organized by type:
  - Technical Standards
  - International Patent Litigation
  - Pharmaceutical Data
  - Scientific Journals.

## Quickly and easily uncover

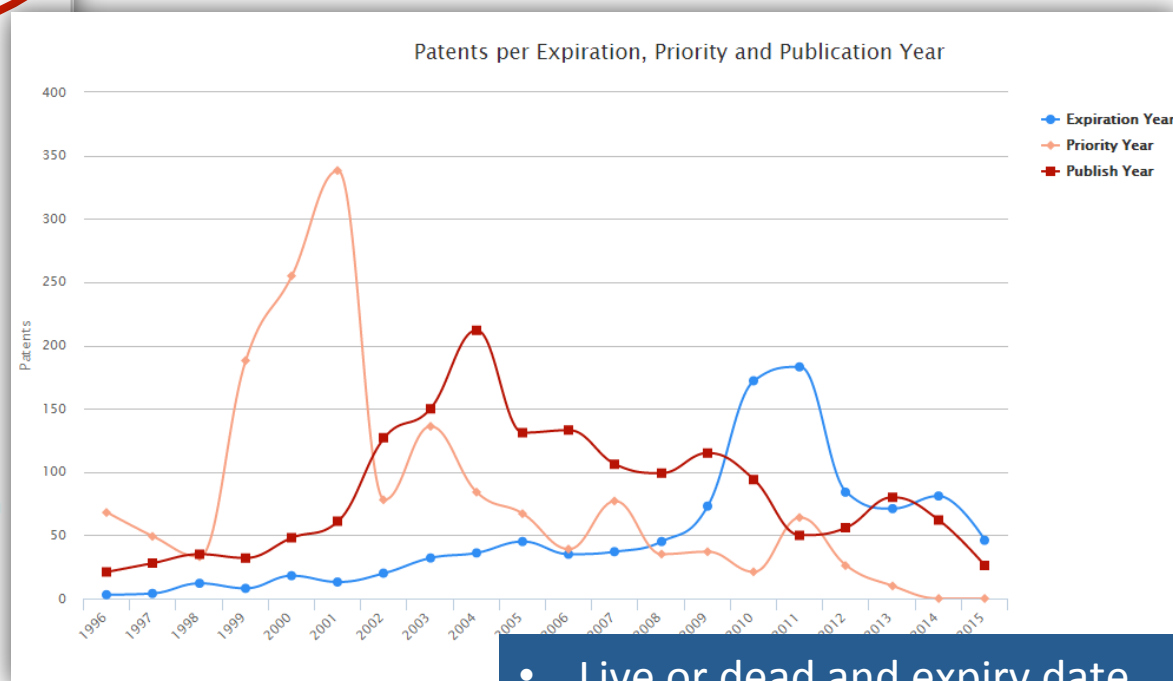
- Technical Standard requirements, patents linked to them (licensing)
- How litigious the market/company is and where
- Links to actual drugs, other pharma specific detail
- Potential for academic partners, academic foundations of products, journals to subscribe to



# Patent Expiration

Patent Overview	
Status	Active ⓘ
Expiration Date:	2017-06-07
Reason:	20 years from 1997-06-07 (file date)
Links	Full Document ⓘ Legal Status ⓘ
Downloads	PDF
Application Number	EP19970928169
Priority Date	1996-06-11
Filed Date	1997-06-07
Publication Date	2006-11-29
Curr. Assignee	Unilin Beheer B.v., NL
Orig. Assignee	Unilin Beheer B.v.
Location	BE
Inventors	Moriau, Stefan Simon Gustaaf Cappelle, Mark Gaston Maurits Thiers, Bernard Paul Joseph
# Claims	33
PTO Length	9.48 years
# Forward Citations	92
# Backward Citations	0
Strength	90th-100th Percentile

Quickly understand if patents are live or dead,  
or when they will expire  
Quickly refine to live or dead patent for analysis



- Live or dead and expiry date cancellations based algorithms specific to document authority and kind

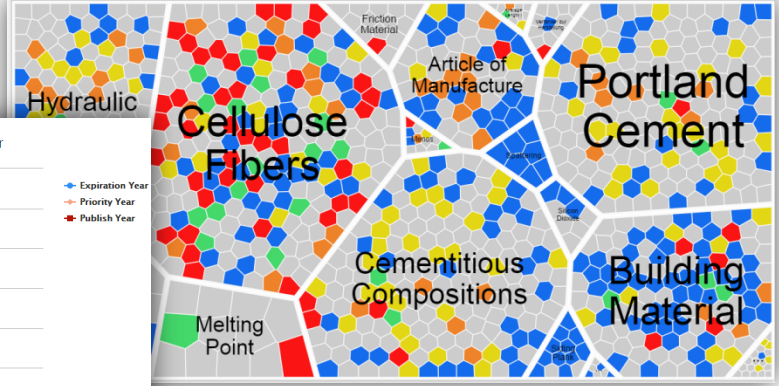
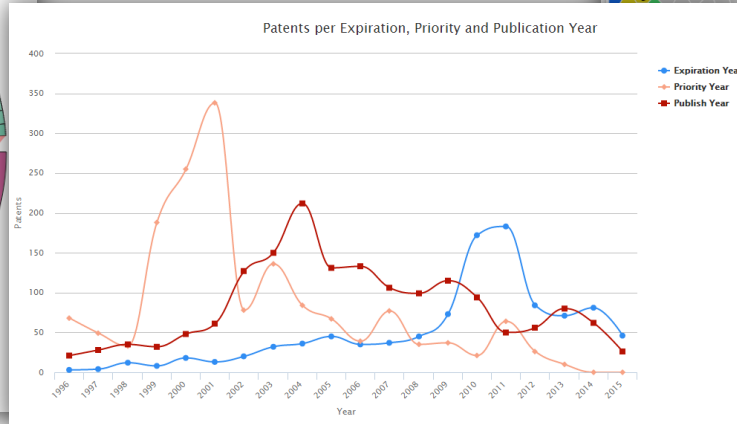
# NPL & Litigation

The screenshot displays the INNOGRAPHY web application interface. The top navigation bar includes 'Home', 'Projects', 'Playbooks', and 'PatentiQ'. The main content area shows search results for 'Litigation Keywords for @defendant npx', with 6 cases and 36 law firms. A 'Refine' sidebar on the left lists various filters such as Plaintiff, Defendant, Court, Judge, Law Firm, Attorney, CP Classification, IP Classification, US Classification, Patent, Damages, Trial Type, Outcome, Dismissal, Case Events, Last Activity, File Date, and Termination Date. A central 'NPL Semantic Search for:' window displays a search result: 'An autonomous car,[1] also known as a driverless car,[2] self-driving car[3] and robotic car,[4] is an automated or autonomous vehicle capable of...'. Below this, there are 'View by' options (All Documents, Text Clustering) and a 'Refine' section with filters for Source, Source Type, Author, and Year. To the right of the semantic search window, a bar chart shows 'Results: 1000 Papers' with a y-axis ranging from 0 to 150. The URL 'https://app.innoqraphy.com' is visible at the bottom left.

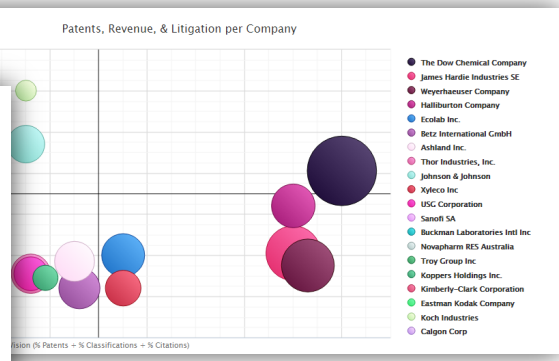
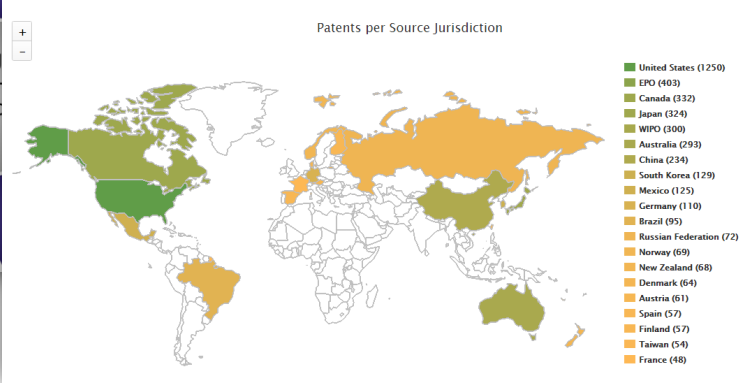
- Litigation
  - From ITC, PTAB, PACER
- NPL
  - literature, research papers, and other curated scientific documents (around 10M documents)

- Litigation – understanding previous litigation, e.g. how litigious a company or market is, details around previous litigation decisions aids strategic decisions around patents
- NPL is “prior art”, therefore is complementary to patent information, e.g. for sourcing, R&D planning, expertise/collaboration, invalidation, proving FTO etc.

# Over 50 Visualisations



Communicate complex IP data with just a few clicks



# Heat Map

Integration of company and patent information

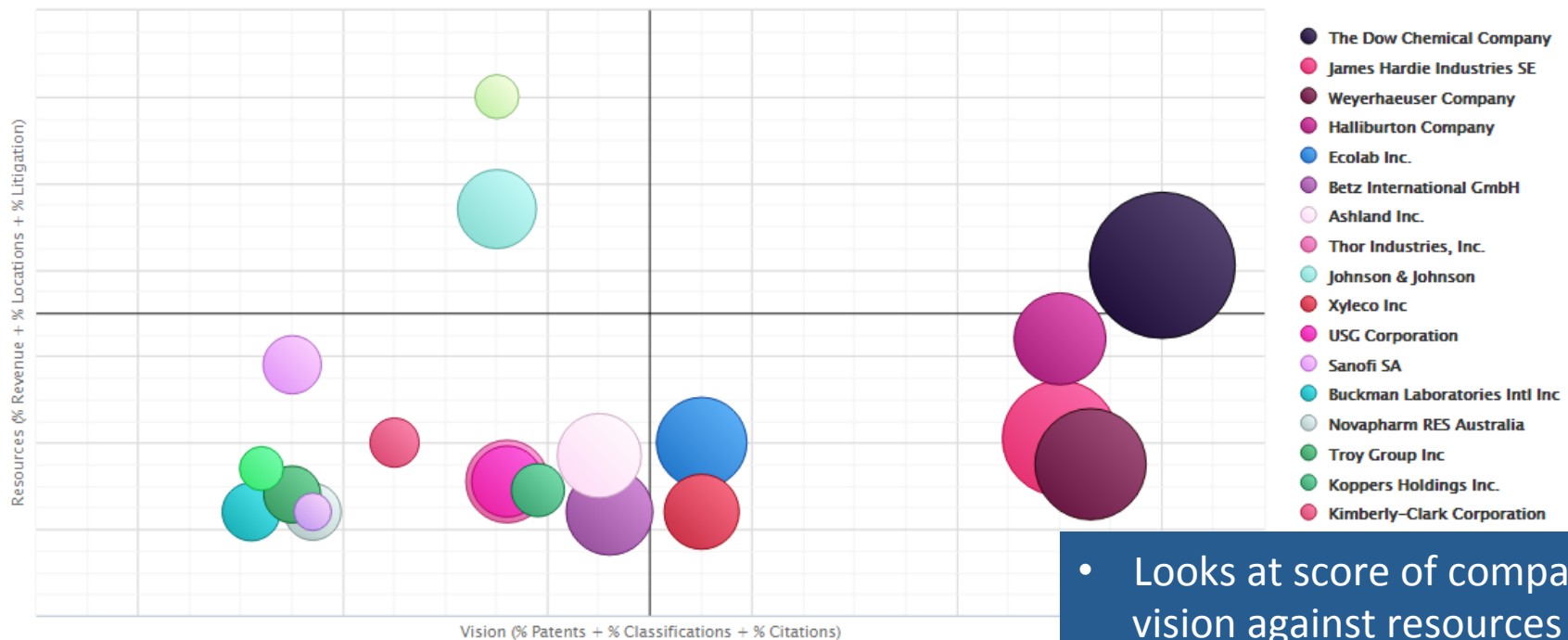
Analyze Find More Like This ▾  
Patents  
NPL



# Market Map

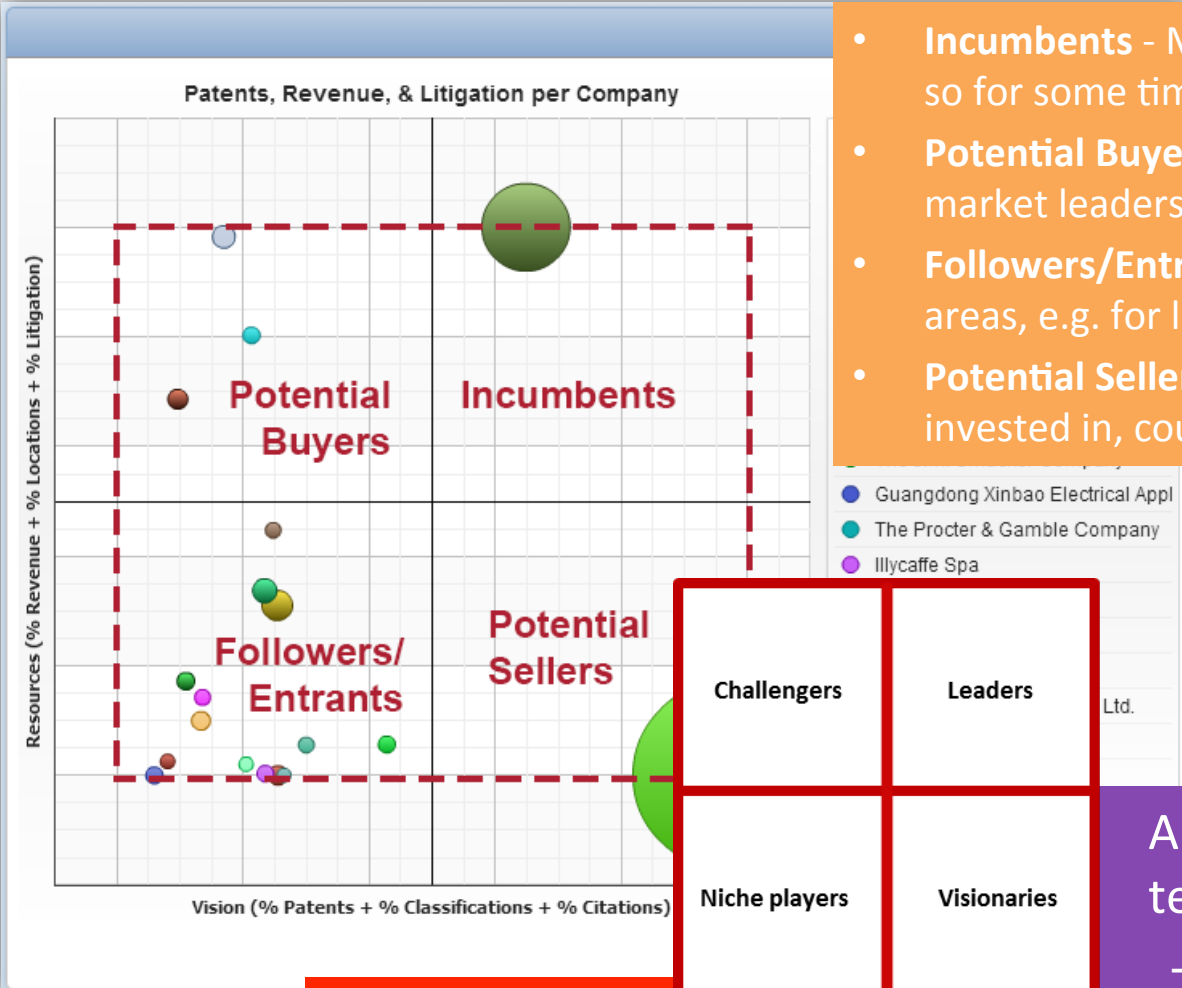
Understand market positions, ability, potential and intentions to move

Patents, Revenue, & Litigation per Company



- Looks at score of company vision against resources
- Interactive exploration, e.g. by revenue, creating time slices (Possible with all visualisations)

# Charts - Bubble



- **Incumbents** - Market leaders and often have been so for some time.
- **Potential Buyers** – Have the resources to become market leaders, e.g. through license or acquisition
- **Followers/Entrants** – Could still control small/niche areas, e.g. for license acquisition
- **Potential Sellers** – High potential, e.g. if bought or invested in, could move into a Incumbent position

Aid strategic decisions around technology acquisition and sale

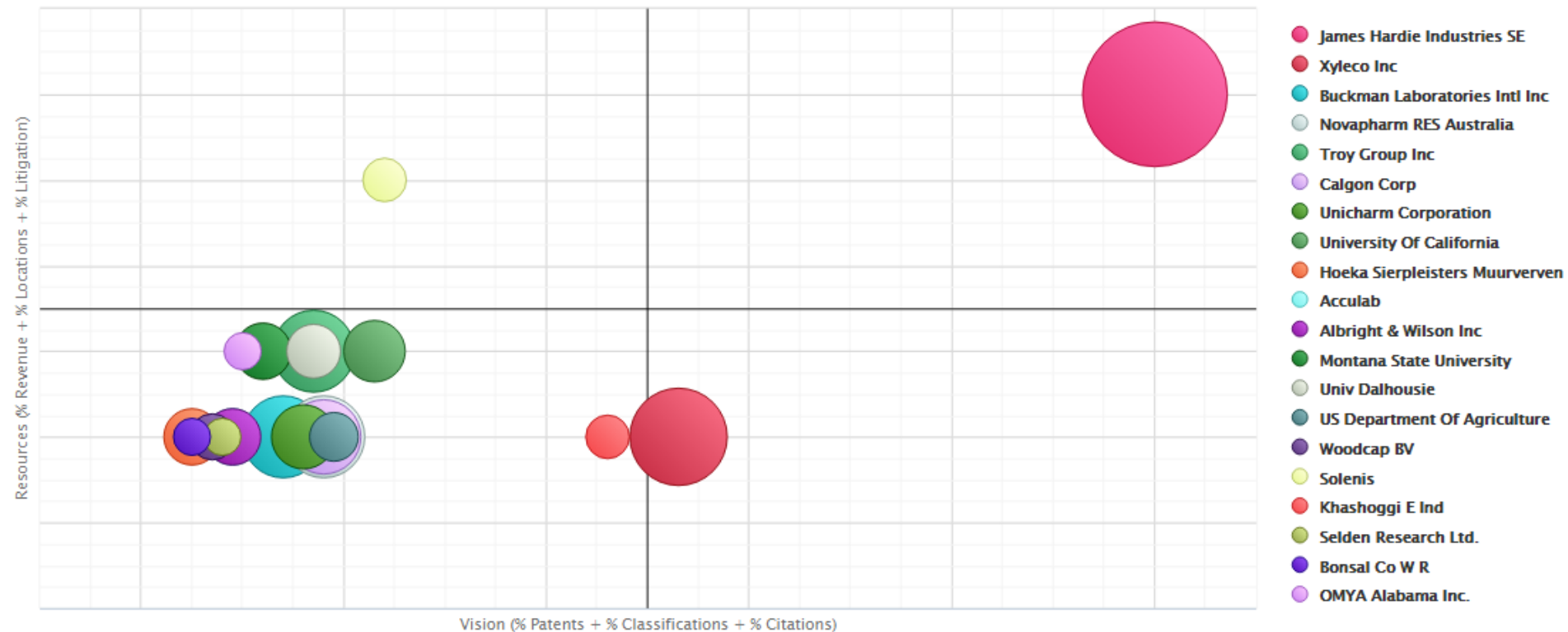
- Acquisition, partnership, investment, licensing

**Gartner's magic quadrant**

# Market Map

Refined \$0 revenue  
(e.g. private, NPEs)

Patents, Revenue, & Litigation per Company



# Clustering

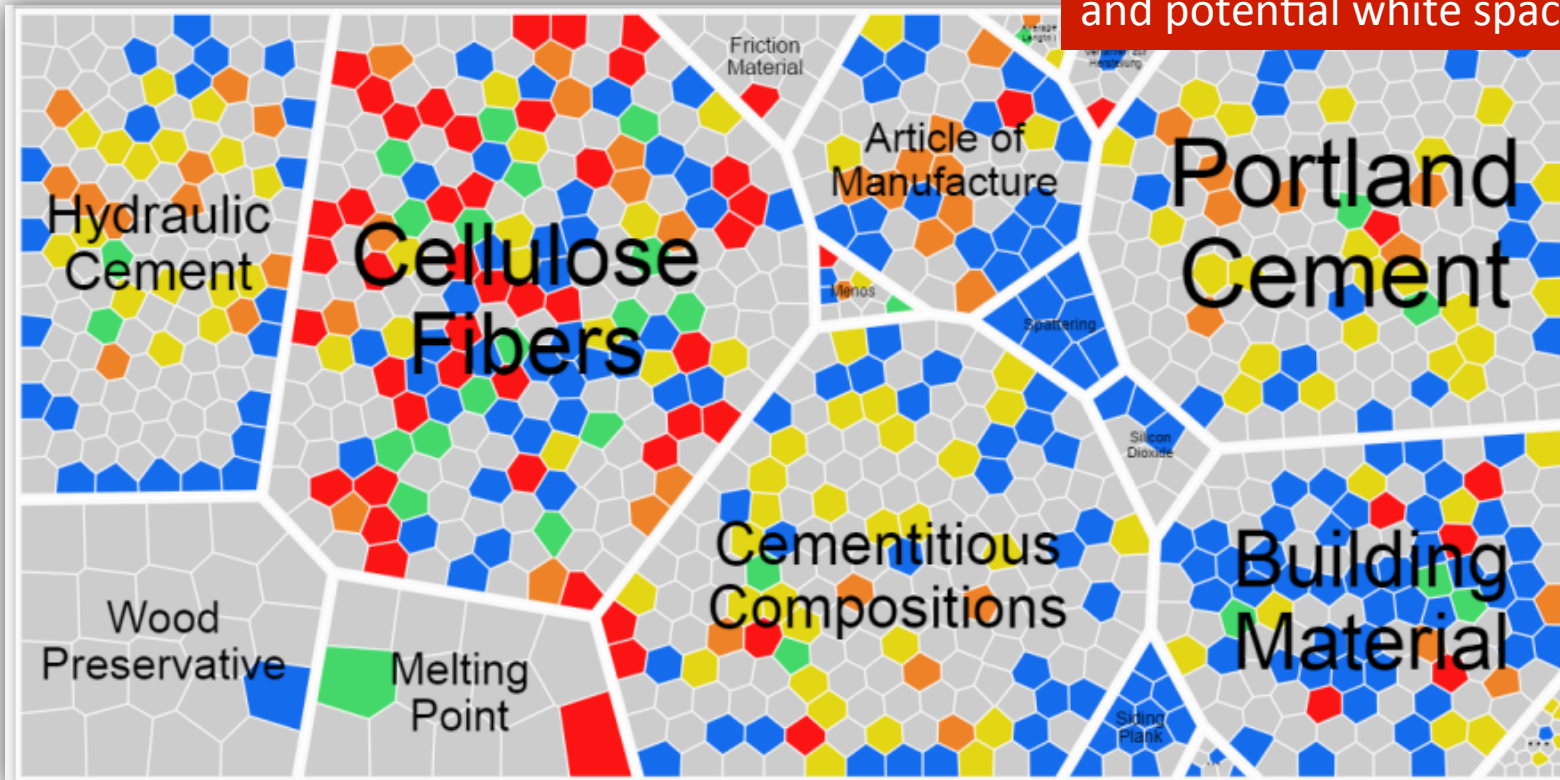
Conceptually evaluate a set of patents e.g. to understand technology breakdowns, players in those and potential white space





# PatentScape

Gain important insights in minutes, e.g. to technology breakdowns, sources of technology acquisition and potential white space



# PatentStrategies<sup>SM</sup>

*Grazie Mille...*

Matthieu Ravillon  
IP Regional Manager EMEA

**LexisNexis IP Solutions**