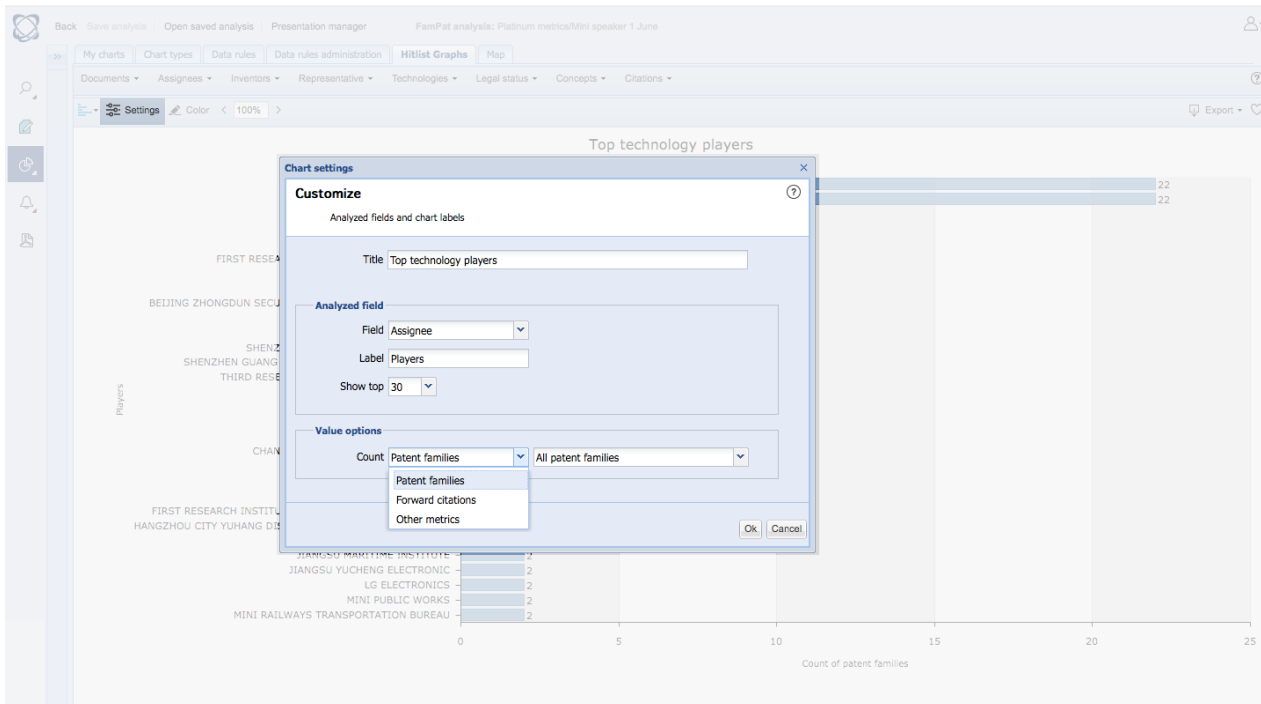**Questel**

Saved analysis metric definition sheet

Overview

There are three types of count options each containing a number of metrics.

1. Patent families
2. Forward citations
3. Other metrics

1. Patent families

These metrics are simple counts of patent families with different limits:

Limited by legal status

- Count of Alive patent families
- Count of Pending patent families
- Count of Granted patent families
- Count of Dead patent families

Limited by the presence of events

- Count of Litigated patent families
- Count of Opposed patent families
- Count of Licensed patent families
- Count of patent families which are Cited in standards (SEPs - Standard Essential Patents)

Limited by Other criteria

- Count of patent families with a Predator presence
- Count of patent families with a Shark presence
- Count of patent families with a Fence in place
- Count of patent families with exceptionally High forward citation counts
- Count of patent families with exceptionally High IPC dispersity
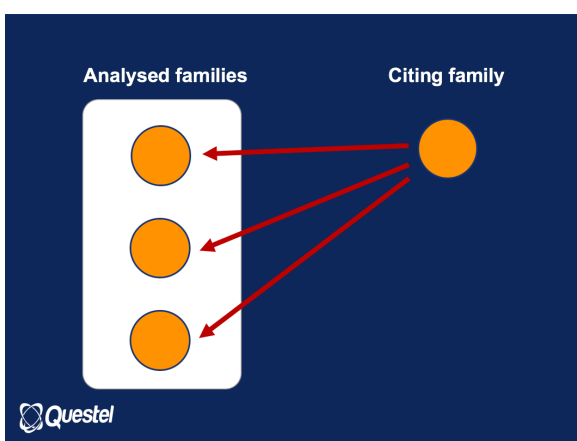- Count of Coassigned patent families

2. Forward citations

The number of forward citations received by the families on each point on your graph.

- Count of All forward citations
- Count of Self forward citations
- Count of Non-self forward forward citations
- Count of Recent forward citations
- Count of Recent self forward citations
- Count of Recent non-self forward citations
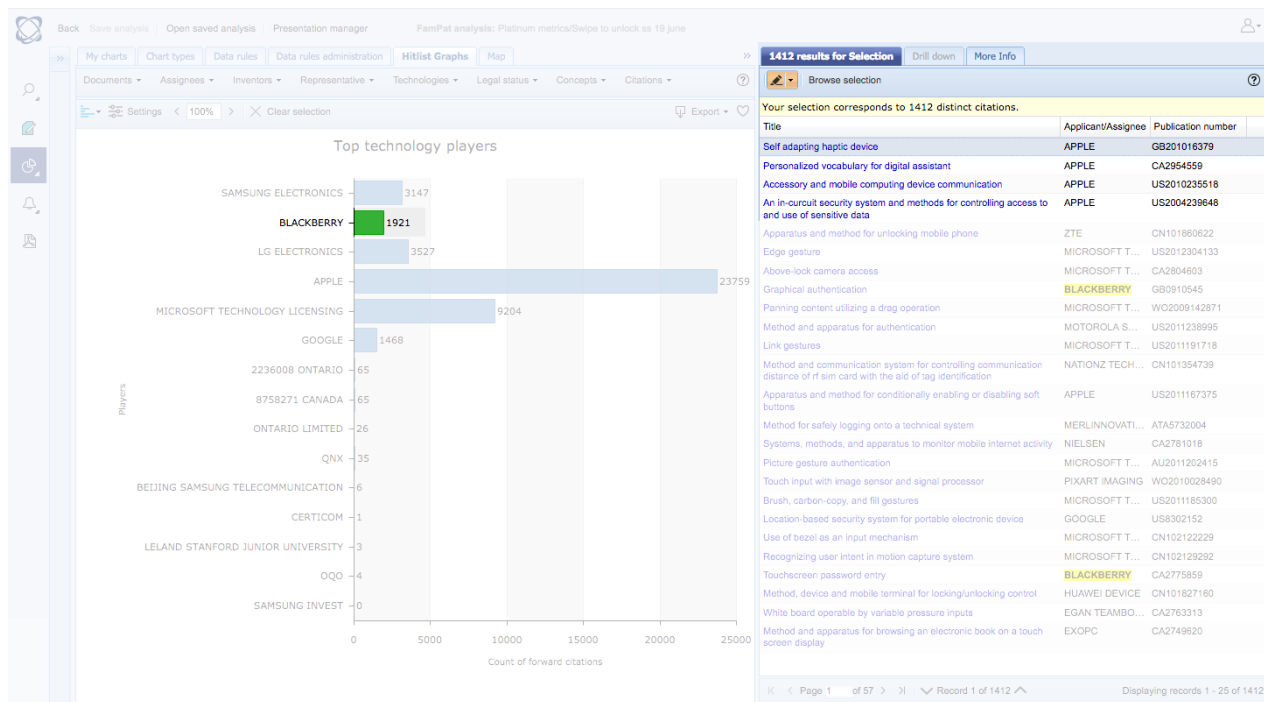
Understanding "duplicate citations"

You may notice that the citation counts in the analysis module are sometime different from the results in the evaluation modules, this is because we have changed the logic of how citation counts are summed. To understand the difference, you need to understand the concept of "duplicate citations:

In the above example the total count of forward citations in the evaluation modules would be 1. Even though the three individual analyzed families each have a forward citation count of 1.

In the saved analysis the forward citation count of the portfolio illustrated above would be 3 and not 1. We calculate the citations for each family and then sum, to get the total number of citations.

This means that the number of citations you see when you make a selection on the graph won't always match the number shown in the graph, because when you make a selection we remove the duplicates in the same way that the duplicates are removed from the counts in the evaluation modules:

Note the color by and drill down options are not available on the citation charts.

3. Other metrics

The final value option category contains all of the remaining metrics which are neither a count of patent families nor a count of forward citations.

- Velocity of application for new families over the last 5 years
- Average Family size
- Average Geographic coverage
- Average Generality index score
- Average Originality index score
- Average Radicalness index score
- Average Age
- Average first/main Claim length
- Average IPC count

Again, color by is not available for charts displaying these "Other metrics". When you make a selection or use the drill down, all source records will be shown. For instance, if you're looking at a bar chart showing average claim length for IBM, when you make a selection you'll see all of IBM's families in this analysis.

Access

The metrics described above can be access by exclusively by platinum user, in saved analysis on the following charts

- Bar/Column chart
- Pie chart
- Bubble chart / Heat map
- World map
- Hex chart
- Tag cloud
- Tabular bar

The metrics are not available for saved analysis created from WorkFiles because the data needed to calculate the metrics is not currently saved in the WorkFiles.

Definition table

Type	Sub type	Metric	Definition
Patent families		All patent families	
Patent families	Legal status	Alive	
Patent families	Legal status	Pending	
Patent families	Legal status	Granted	
Patent families	Legal status	Dead	
Patent families	Events	Litigated	
Patent families	Events	Opposed	
Patent families	Events	Licensed	
Patent families	Events	Cited in a standard	
Patent families	Other	Predator present	Number of families where over 15 percent and less than 30 percent of the forward citations (minimum of two) are from a single entity that is not the same as the assignee
Patent families	Other	Shark present	Number of families where over 30 percent of the forward citations (minimum of three) are from a single entity that is not the same as the assignee
Patent families	Other	Fence in place	Number of families where over 30 percent of the forward citations (minimum of three) are from the same assignee (self-citations)
Patent families	Other	High forward citations	Number of patent families where the number of forward citations is in excess of the average plus 3 standard deviation. The average is derived from the complete analysis set.

Patent families	Other	High IPC dispersity	Number of patent families where the number of different IPC/CPC subclasses (e.g. H04G) is in excess of the average plus 3 standard deviation. The average is derived from the complete analysis set.
Patent families	Other	Coassigned	The number of patent families with multiple assignees.
Forward citations		All citations	The number of citing patent families calculated at the family level and then summed.
Forward citations		Self citations	The number of self citations calculated at the family level and then summed.
Forward citations		Non-self citations	The number of non-self citations calculated at the family level and then summed.
Forward citations		Recent citations	The number of forward citations with an application date within the last 5 calendar years.
Forward citations		Recent non-self citations	The number of non-self citations with an application date within the last 5 years.
Forward citations		Recent self citations	The number of self citations with an application date within the last 5 years.
Other		Velocity	Count of families with a first application date within the last 5 years, divided by 5
Other		Family size	The average number of granted or pending patents in each patent family
Other		Geographic coverage	The average number, per patent family of BRIC and Tier 1 patent authorities (US, JP, DE, FR, BR, IN, CN, KR, AU, TW, RU) in which patent protection is pending or granted
Other		Originality index	Values range between 0 and 1; the score is calculated for each patent family and then averaged. In brief; the broader the spread of cited IPC/CPC subclasses the higher score. Fully defined by Hall Jaffe and Trajtenberg (2001)
Other		Generality index	Values range between 0 and 1. The score is calculated for each patent family and then averaged. In brief; the broader the spread of citing IPC/CPC subclasses the higher score. Fully defined by Hall Jaffe and Trajtenberg (2001)
Other		Radicalness index	Values range between 0 and 1. The score is calculated for each patent family and then averaged. The calculation for Radicalness is similar to Originality (the broader the spread of cited IPC/CPC subclasses the higher score) but for radicalness the subclasses listed in analysed family are not counted. Fully defined by Shane (2001)
Other		Age	Average age in years since the first publication per patent family
Other		Claim length	The number of non-duplicate words in the first independent claim. Calculated for each patent family and averaged.
Other		IPC count	the average number of different IPC/CPC subclasses (e.g. H04G) per patent family