

[\[back to Help Center \]](#)

Text Clustering

- [What Clustering is](#)
- [What to use Clustering for](#)
- [Clustering Derwent data](#)
- [Where to access Clustering](#)
- [How Clustering works](#)
- [Overview of the Clustering control panel](#)
- [How to begin](#)
- [The Cluster Overview page](#)
- [Creating a Result Set from a cluster](#)
- [Using the Visual Clustering Map](#)

What Clustering is:

A tool that uses linguistic and relational technologies to analyze the patent documents in your Result Set or Work File, and groups them based on the key words found in the analysis. The linguistic analysis is applied to the title and abstract.

[\[back to top\]](#)

What to use Clustering for:

Use Clustering to:

- Identify and focus on the most relevant patents
- Examine relationships between patents
- Create a more targeted analysis of patent data
- Analyze similarities to focus on what's most relevant

[\[back to top\]](#)

Clustering Derwent data:

Derwent gives you patent titles and abstracts rewritten in clear and consistent industry-specific terms. When you use Clustering on Derwent data, your results will be even more meaningful than those you get when clustering original patent data because original patents are sometimes written to conceal the real value of an innovation.

[\[back to top\]](#)

Where to access Clustering:

Access Clustering from the **Clustering** tab on your Result Set or Work File.

[\[back to top\]](#)

How Clustering works:

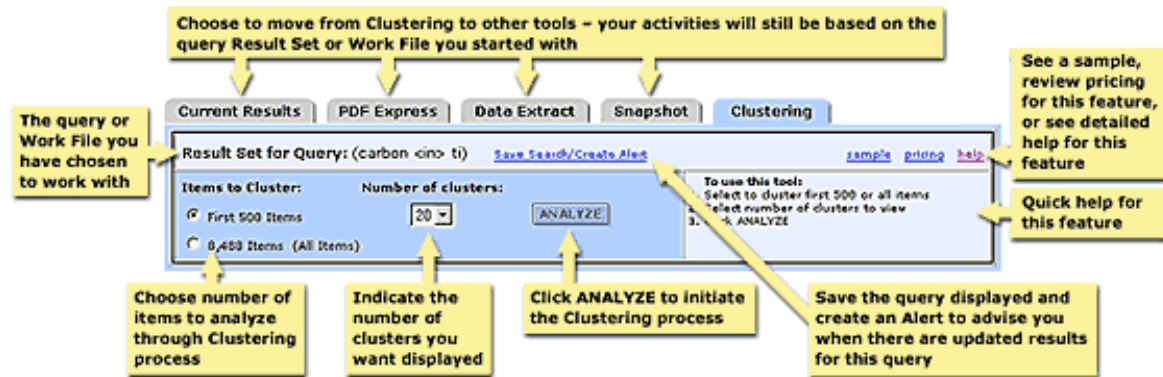
Documents are analyzed and assigned uniquely to one and only one cluster. The list of clusters is displayed, along with the keywords that characterize the cluster and the number of patent documents that are contained in the cluster. You can drill down into any cluster and view individual documents — or you can focus on the most relevant clusters and explore newly exposed relationships. You can also view the relationships between clusters based on common terms found in the documents in each cluster.

Results can also be visualized graphically with a map that provides an overview of the clusters and an indication of the relationship among them.

[\[back to top\]](#)

Overview of the Clustering control panel:

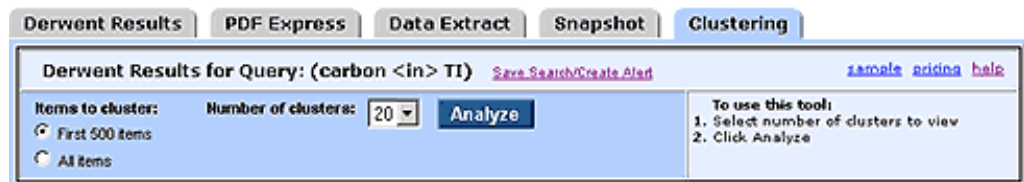
Following is a high-level overview of the Clustering control panel:



[\[back to top\]](#)

How to begin:

1. From the Current Results display for a query Result Set or a Work File, click the Clustering tab.
2. Delphion displays your Result Set or Work File with the Clustering control panel (shown following).



3. Choose the number of **Items to Cluster**.
4. Choose the **Number of clusters** you want created in your analysis.
5. Click **ANALYZE**.
6. The Cluster Overview page displays.

[\[back to top\]](#)

The Cluster Overview page:

The **Cluster Overview** page (shown following) shows you the Cluster number that has been assigned to each cluster, the number of patents in each cluster, and the common keywords (**Descriptive words**) that describe the cluster.

Cluster Overview		Show Visual Map	Clustering help
Cluster	Patents	Descriptive words	
1	30	liquid, device, dispense, provide, method, charge, spray, comprise, use, filter	
2	29	extraction, extract, process, obtain, decaffeinate, contact, temperature, soluble, caffeine, separate	
3	28	brewing, heat, coffee ground, brew, flow, maintain, receptacle, chamber, cup, water	
4	26	air, comprise, coffee bean, receive, housing, locate, mean, motor, grind, connect	
5	26	process, method, produce, product, flavor, soluble coffee, add, acidity, oil, aroma	
6	26	receive, machine, heat, water, include, container, hot, fluid, deliver, first	
7	25	opening, space, position, insert, discharge, include, side, form, ground coffee, portion	
8	24	extract, concentrate, flavor, concentration, dry, aqueous, add, aroma, improve, roast	
9	24	roast, aroma, temperature, solid, gas, dry, process, F., prepare, compound	
10	24	roast, product, density, produce, appearance, weight, process, high, coffee product, particle	
11	24	select, grind, control, grinder, user, start, allow, operation, apparatus, brew	
12	24	basket, top, retain, extend, end, support, permit, flow, bottom, brewed coffee	
13	23	coffee maker, heat, brew, provide, water, use, invention, further, brewing, automatic	
14	23	housing, coffee machine, end, move, cause, movable, part, coffee powder, connect, position	
15	23	brewing, beverage, method, bottom, cup, water, contain, tea, brewer, agitate	
16	21	apparatus, mean, filter, hot water, say, comprise, and/or, provide, position, manner	
17	20	signal, amount, fill, detector, quantity, apply, apparatus, invention, isolate, eliminate	
18	19	amount, bean, predetermine, coffee bean, hopper, embodiment, different, individual, supply, dispose	
19	18	end, lid, operate, prevent, enable, allow, position, dispense, volume, adapt	
20	15	maintain, container, period, will, use, invention, seal, contact, activate, area	

Click a **Cluster** number to go to the **Current Cluster** page for that cluster. From the Current Cluster page, you can choose to create a Result Set from that individual cluster and then, from the Result Set, use any of the other available analytical or productivity tools like Work Files or Snapshot. [See Creating a Result Set from a cluster](#) for more information.

OR

Click the **Show Visual Map** link to go to the Visual Clustering Map for the whole group of clusters. See [Using the Visual Clustering Map](#) for more information.

[\[back to top\]](#)

Creating a Result Set from a cluster:

The **Current Cluster** page (shown following) lets you drill down into a specific cluster, view the Delphion Integrated Views for individual patents in that cluster, and create a Result Set that includes all of the patents in that specific cluster.

Current Cluster [Show All Clusters](#) [Clustering help](#)

Cluster **Patents** **Descriptive words**
 3 28 brewing, heat, coffee ground, brew, flow, maintain, receptacle, chamber, cup, water

Cluster Content [View as Result Set](#)

Patent	Similarity	Title
US05064980	35%	Coffee maker
US05010221	34%	Microwaveable coffee makers
US04577080	31%	Coffee maker adapted for use in a microwave oven
US05669287	29%	Coffee and tea brewing apparatus and system
US05980965	29%	Coffee brewing method
US04999470	26%	Microwavable coffee maker
US04381696	26%	Microwave coffee making apparatus
US03941042	26%	Automatic coffee brewing system
US04532142	25%	Automatic coffee maker
US05168794	25%	Apparatus for brewing coffee
US05267506	25%	Apparatus for automatic coffee brewing
US04109565	24%	Coffee percolator
US04167136	24%	Beverage brewer
US04168656	23%	Apparatus for improving coffee grounds usage
US04187992	22%	Device for reconstituting used coffee grounds
US03641918	22%	AUTOMATIC COFFEE DISPENSER
US03931756	22%	Filter area limiting device for drip coffee makers with micropore filter
US05676041	22%	Coffee brewing apparatus
US03757660	21%	FRESH-BREW COFFEE VENDOR

In the Cluster Content section, click **View as Result Set** to see that cluster in the Delphion Result Set format.

Once the patents for the cluster are in a Result Set, you can:

- change the display by showing thumbnails, abstracts, or a variety of other attributes
- create a Work File
- download individual PDFs
- use PDF Express or Data Extract
- create a Snapshot
- click to see details on individual patents

Current Results **PDF Express** **Data Extract** **Snapshot** **Clustering**

Results for **Items from clustering** [help](#)

28 matches found Displaying results 1 - 20 of 28

<< First Page < Previous Page [Next Page](#) > Last Page >>

Add selected items to Work File:
 all 2,763 items

PDF	<input type="checkbox"/>	Publication	Title (To sort a column, click label at top) Abstract
	<input type="checkbox"/>	US5980965	Coffee brewing method A method and system for brewing a desired volume of coffee at a selected brew time, in which a volume of water corresponding to the desired volume of coffee is heated and directed into contact with coffee grounds in a brewing chamber. Contact between at least a portion of the heated water and the coffee grounds is maintained for approximately the selected brew time to form brewed coffee. The brewing time, however, is substantially independent of the desired volume of coffee to be brewed and is controlled by control of the rate at which heated liquid flows into or out of the brewing chamber. At the expiration of the brewing time, brewed coffee is released through an opening in the brewing chamber and into an underlying receptacle.
	<input type="checkbox"/>	US5676041	Coffee brewing apparatus A coffee brewing apparatus for producing a selectively flavored, liquid coffee beverage, having a housing, a receptacle, securable to the housing, for retaining ground virgin coffee beans to be brewed, a dispensing means, at least partially disposed within the housing, for optionally dispensing flavored compositions into the receptacle and onto the ground coffee contained therein and brewing means, at least partially disposed within the housing, for introducing a heated liquid into the receptacle to thereby produce a selectively flavored coffee beverage is provided.
	<input type="checkbox"/>	US5669287	Coffee and tea brewing apparatus and system

[\[back to top\]](#)

Using the Visual Clustering Map:

1. Follow steps 1-5 above to view Cluster Overview page.
2. Click the Show Visual Map link on the top of the Cluster Overview page.
3. Delphion returns Visual Clustering Map. Each cluster is drawn on the map with:
 - o A rectangle with a size proportional to the number of patents in the cluster
 - o Each rectangle labeled with two numbers, the first being the cluster number and the second being the number of patents in the cluster
 - o As many keywords for that cluster displayed based on the size of the rectangle
4. To view the Cluster Content page for a cluster, double-click on the cluster.
5. To move a cluster on the map, left-click on the cluster and drag it to a new location.
6. To view all of the keywords that define a cluster, right-click on the cluster.
7. Use controls across the top of the map to manipulate the map.
8. Controls on the Visual Clustering Map allow you to:
 - o Stop and Start the clustering process
 - o Size (- or +) the entire map
 - o Change the Font Size of the text
 - o Show or hide the similarity percent between clusters by checking and un-checking Link Values check box
 - o Show or hide the relationships between clusters by changing the Min Link value which establishes the minimum similarity percent between clusters required for the relationship to be displayed
 - o Make text boxes Uniform Sizes

Note: Lines shown between clusters, indicate where there are relationships between the clusters. A red line indicates a high percentage of similarity, a green line indicates a medium percentage and the blue line indicates a low percentage.

[\[back to top\]](#)