Search Example in *Derwent Innovations Index*

**Research topic:**
Suppose you found an article in *PubMed* by K. Toptop about the “Design and numeric evaluation of a novel axial-flow left ventricular assist device” (PMID: 23644609) and searched the author’s patent application in *Derwent Innovations Index*.

You would like to know if there are other patents about axial-flow heart pumps.

*Side note:* You can also start with doing a search on a research topic in *Derwent*, looking at your list of search results, picking a patent that you like, and then constructing a search to find similar patents like this example demonstrates.

**Tips for identifying search terms:**
In reading the patent record for Toptop’s invention in *Derwent*, you see a description of what makes this axial-flow pump unique, such as the fact that the pump has a rotor, which splits blood flow and contains permanent magnets.

- Pull out unique aspects in the description of the invention to create the different concepts of your search strategy.
  
  *Example:* axial-flow pump, rotor, magnets, blood

- Inventors will often describe their inventions instead of naming them. Search the web for different ways of describing parts of the invention.
  
  *Example:* Wikipedia mentions that “an axial flow pump... is a common type of pump that essentially consists of a propeller (an axial impeller) in a pipe.” This means that synonyms for an axial flow pump could be a pump that contains a propeller in a pipe (you can type, pump propeller pipe, in the search box to find patent records in *Derwent* that contain all three of these words in the title and abstract) or a pump that contains an axial impeller in a pipe (you can type, pump axial impeller pipe, in the search box).
• Use an * to account for variant endings.
  
  *Example*: pump* will search for pump, pumps, pumping.

**Running your search in Derwent Innovations Index:**
Combine your search terms using AND/OR. First, combine any synonyms using OR. Then combine your different concepts using AND.

There are three ways of running your search in Derwent.

1. You can type your synonyms and concepts in a long string using one search box.
   Use parentheses around your synonyms, and type your ANDs and ORs.
   *Example*:
   (axial-flow pump* OR axial flow pump* OR pump* propeller* pipe* OR pump* axial impeller* pipe*) AND rotor* AND magnet* AND (blood OR bleed*)

2. You can type one concept per search box. Click on “Add Another Field” to obtain additional search boxes. *Example*:

   “Topic” searches the title and abstract sections of each patent record in Derwent for the words you typed in the search box. *Derwent* re-writes the title of the patent to make it more descriptive and easily readable, and also writes the abstract to include the novelty and use of the invention. All patent records are in English, even though the original patent or patent application may be in another language.

3. You can run one search a time and click on the “Search History” link (located on the right-hand side of the screen) to combine your previous searches. This third method allows you to easily combine different search sets, giving you greater control and flexibility over your search.
Locating the full text of a patent:

Click on the “Original” button in Derwent (located below the title of the patent) to view the full text of English language patents. If there is no “Original” button there, this usually means that the patent document is in another language. You can try searching the patent number in Google to check if you can read a free translation on the web.

The patent document will also provide a list of references that were used in the patent application, which may be useful for finding additional patents on your topic. Certain patent records in Derwent will provide a link to these references under the heading, “Patents Cited by the Examiner.”

If you see more than one “Original” button, the patent number that ends with an A# is the patent application. If the application was approved, you will also see a link to the granted patent. Inventors can apply for a patent for the same invention in different countries so you may see multiple applications listed.