## 7-Step U.S. Patent Search Strategy (continued):

4. Read the Classification Definitions to verify the scope of the sub-classes and note "see-also" references.

5. Search the *Issued Patents* and the *Published Applications* databases by "Current US Classification" and access full-text patents and published applications.

6. Review the claims, specifications and drawings of documents retrieved for relevancy.

7. Check all references and note the "U.S. Cl." and "Field of Search" areas for additional classes/sub-classes to search.

(52)	U.S. Cl			
(58)	Field of Search			
(56)	References Cited			
	U.S. PATENT DOCUMENTS			
	1,149,338 A * 8/1915 Butcher 280/165			
	2,218,060 A * 10/1940 Watson 280/165			
	3,288,488 A * 11/1966 Shinn 280/165			
	3,734,534 A * 5/1973 Brooks et al 280/163			

For a more complete explanation of the U.S. Patent Search Strategy, see the complete guide:

http://guides.lib.umich.edu/content.php ?pid=35640

### Getting More Information & Assistance

For more information on patent research, visit our website:

http://www.lib.umich.edu/aael/

For additional assistance, please contact your subject specialist:

AOSS, Electrical Engineering and Computer



Science Sara Samuel 734-615-8638 henrysm@umich.edu

Chemical, Materials Science, Biomedical, Naval Engineering and Center for

Entrepreneurship

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Aerospace, Civil and Environmental Industrial, Mechanical, and Nuclear Engineering



Paul Grochowski 734-647-5738 grocho@umich.edu

For additional assistance in nonengineering disciplines, please contact your subject specialist:

http://www.lib.umich.edu/collections/specialists.html

## A Quick Guide to Patent Research at the Art, Architecture & Engineering Library

http://www.lib.umich.edu/aael/

Reference Desk: 734-647-5735 E-Mail: aael.ref@umich.edu

# Library

University of Michigan North Campus – Duderstadt Center 2281 Bonisteel Boulevard Ann Arbor, Michigan 48109-2094

# Things to know before getting started with a patent search:

- Patent searching is complex and time consuming. Plan on spending a few hours learning the search process and additional hours searching and evaluating results.
- You will need to document your search. Keep careful records of what databases you search, what terms and classification numbers you search in the databases, and document numbers of the patent and application documents that you retrieve and examine.
- Tools for searching that are available at the Art, Architecture & Engineering Library (AAEL) include the PUBWest database. AAEL also keeps a collection of patent related books, shelved in the reference area on the 2<sup>nd</sup> floor of the Duderstadt Center.
- AAEL Reference librarians can show you how to use patent resources, but we cannot do the search for you. There are no exceptions. We are happy to help people get started, but for legal reasons, patent searches must be done by the people who will use the results. We have plenty of expertise in using the databases. We even know a bit about the law. But none of us are trained intellectual

property lawyers, so none of us can give legal advice--which is what doing such a search for somebody is.

- Keyword searching alone is never enough. A comprehensive patent search requires that you search by classification and sub-classification numbers.
- A search for patentability involves looking at all prior art. In addition to searching patent literature, you will need to search relevant journal literature in the field of your invention. Your subject specialist (listed on back) can help you determine which databases to search.
- You can do much of your work from anywhere that you have internet access. The United States Patent & Trademark Office (USPTO) makes databases and manuals available online at:

http://www.uspto.gov/

For a 36-minute tutorial on the patent search process, see the USPTO website:

http://www.uspto.gov/web/offices/ac/ido/pt dl/CBT/

#### 7-Step U.S. Patent Search Strategy:

1. Brainstorm keywords related to the purpose, use, and composition of your invention. Think both broadly and narrowly.

2. Look up the words in the *Index to the U.S. Patent Classification* http://www.uspto.gov/web/patents/classification/usp cindex/indextouspc.htm to find potential classes and sub-classes.

Land Vehicle See Specific Types	280
Air bags	280 / 728.1+
Seat belts	280 / 801.1+
Spare tire compartment	296 / 37.2
Stub axles	280 / 124.125+
Tires and wheels resilient	152
Toilets	4 / 458+
Vertically adjustable wheels	280 / 43+
Wheel substitutes	305
Wheels and axles	301

3. Verify the relevancy of the classes/subclasses by using the Classification Schedule in the *Manual of Classification* http://www.uspto.gov/web/patents/classification/.

А	Class	301 LAND VEHICLES: WHEELS AND AXLES
CI	ick here fo	or a printable version of this file
P	1	COMBINED WHEEL AND AXLE MODIFICATION
P	2	Cushion lateral thrust:
2	2.5	<ul> <li>With pedal crank</li> </ul>
P	5.1	WHEEL
2	5.21	Balancing device
P	5.22	·· Self-operating
2	5.23	<ul> <li>With peripheral roller</li> </ul>
2	5.24	<ul> <li>Having housing for tine inflation means</li> </ul>
P	5.301	Skate wheel
P	5.7	<ul> <li>With antifriction bearing</li> </ul>
P	5,302	. Traction increasing
8	5.303	Shape