

Patents, Trademarks and Copyrights

- Patents – grants a property right to the inventor for an invention.
- Trademark – protects a word, name or symbol used to represent a product and blocks potentially confusing words, names or symbols from being used by others.
- Copyright – protects original works of authorship such as books, music, art, software.

Patents

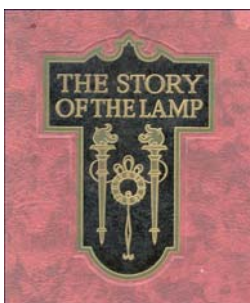
- Contract between inventor and government
- Inventor agrees to disclose invention to public
- In turn, the Government (Patent Office) grants exclusivity in invention to inventor if certain tests are met:

Utility

Novelty

Non-obviousness

Patents, Trademarks and Copyrights



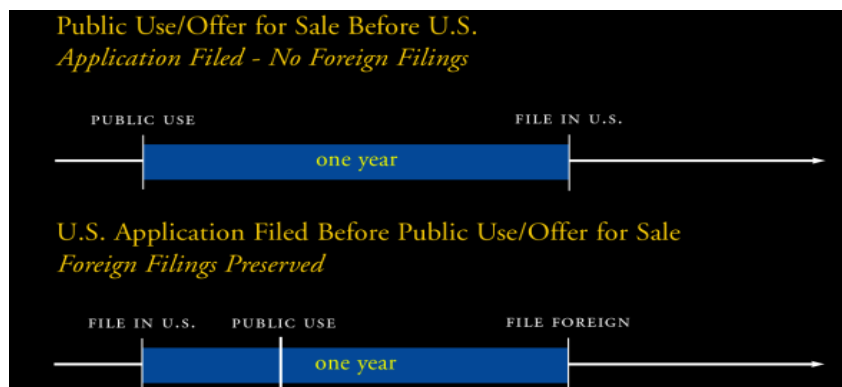
Patents

- Three types of US patents
 - Utility Patent: Inventions that function in a unique manner to produce a utilitarian result (e.g. Velcro, drugs, electronic circuits)
 - Design Patent: Covers unique, ornamental shape or design of a non-natural object
 - Plant Patent: Plants from grafts or cuttings.

Requirements For Patentability

- Utility
- Novelty & non-obviousness determined by comparing claimed invention to “prior art”
- Prior art
 - Prior publications
 - Prior patents
 - Prior public uses
 - Prior commercial offers to sell

Requirements For Patentability



Rights Granted by a Patent

- Utility patents expire 20 years after the “filing” of a patent application.
 - No rights during pendency of application
- Patent exclusivity geographically limited to the country of issue.

Rights Granted by a Patent

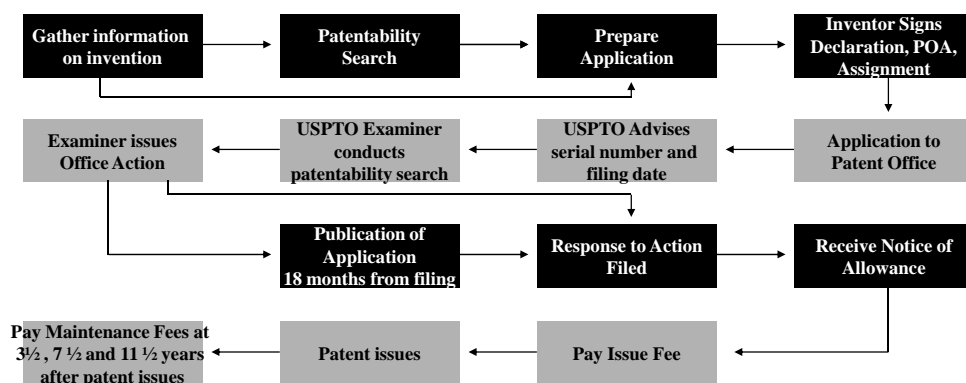
- Patents grant their owner the right to “exclude others from:”
 - Making the invention
 - Using the invention
 - Selling the invention
 - Offering the invention for sale
 - Importing the invention

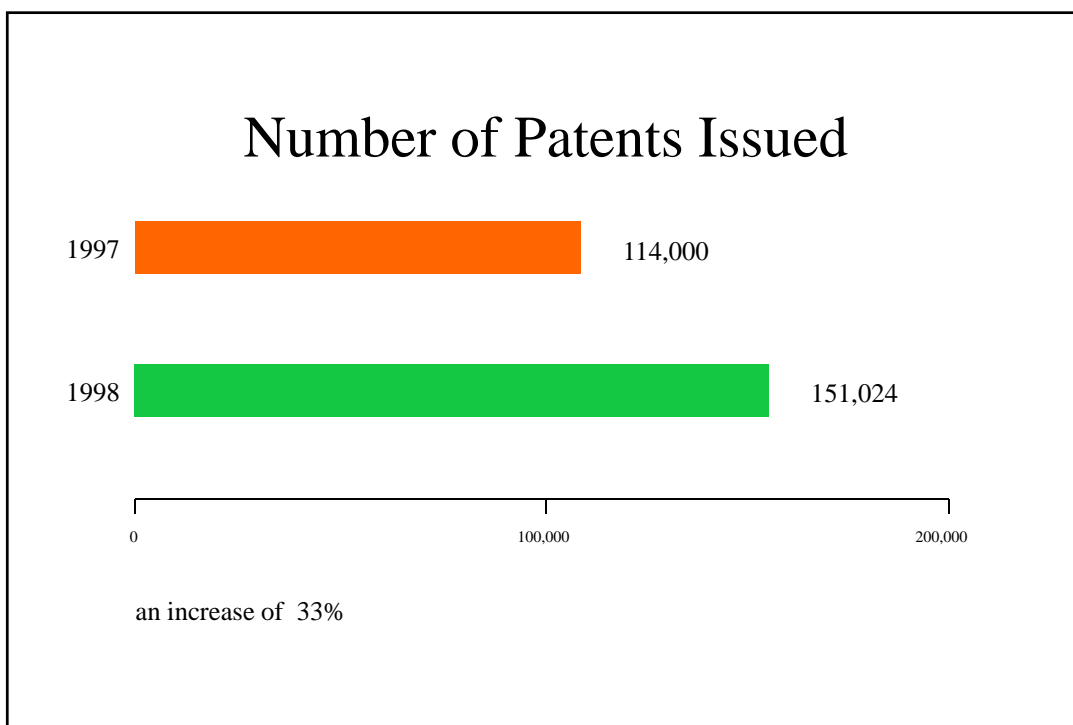
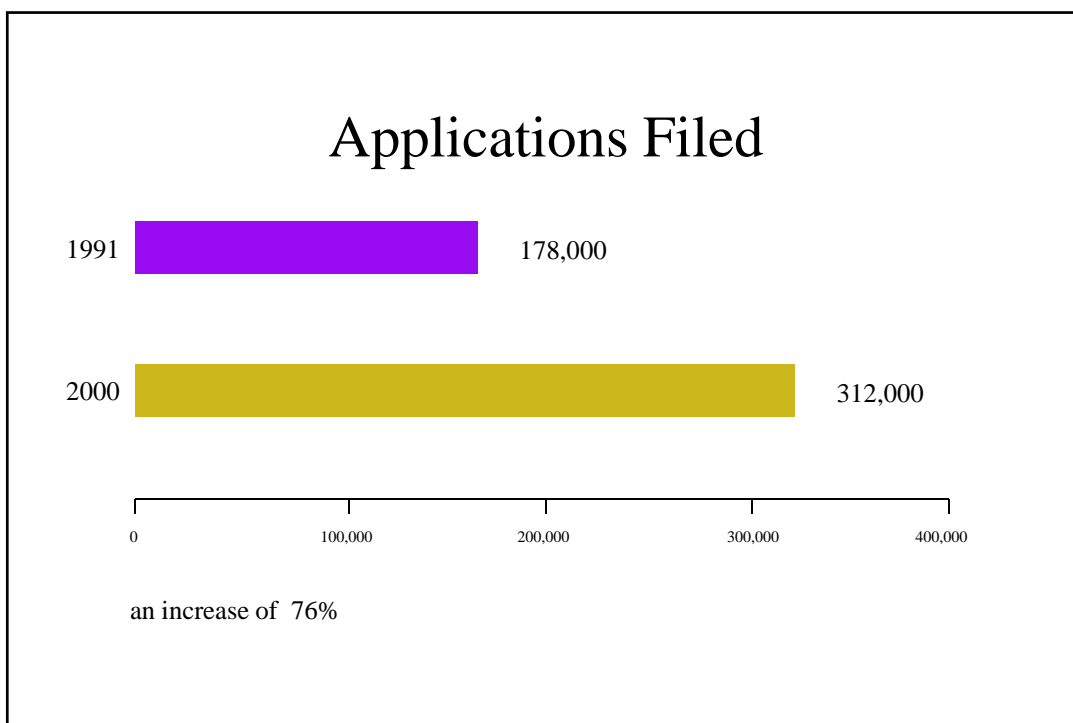
Rights Granted by a Patent

- A patent doesn't necessarily grant the owner the right to make, use and sell the patented invention

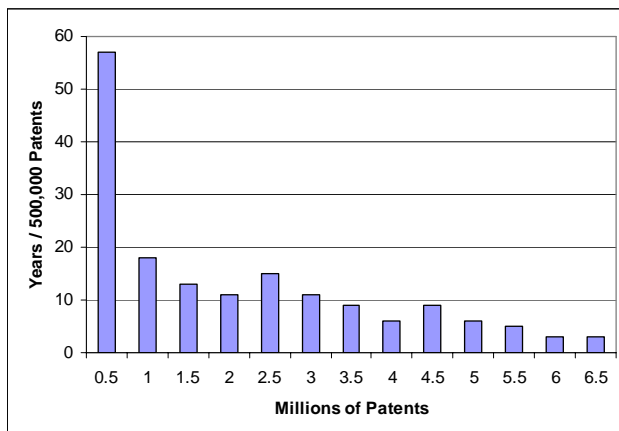
Patent owner may be subject to a third-party dominating patent

The Process for US Utility Patents





Number of Patents



Provisional Patent Application

- No specific Patent Office format required
 - No claims or formal drawings
- Not examined in Patent Office
- Requires complete description of invention and best mode
- Cheaper and quicker to file than utility application
- “Patent Pending”
- File utility application within one year or provisional becomes abandoned.

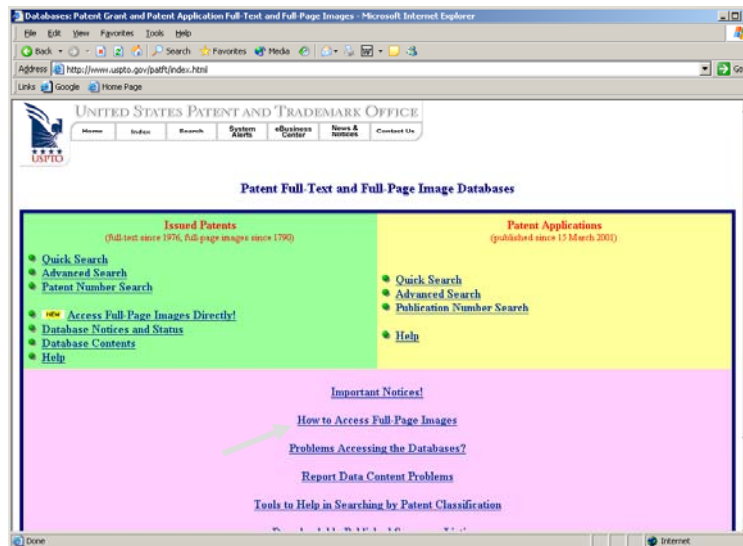
Provisional Patent Application Benefits

- It gets you started
- It is fast
- It helps long-term planning
- It preserves the right for foreign policy
- It gets you “in line”
- It increases your boundaries (by being first)

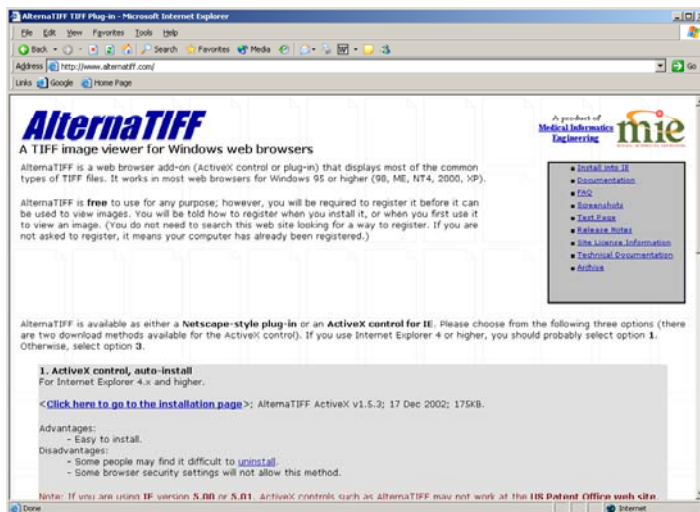
www.uspto.gov



Viewing Patents



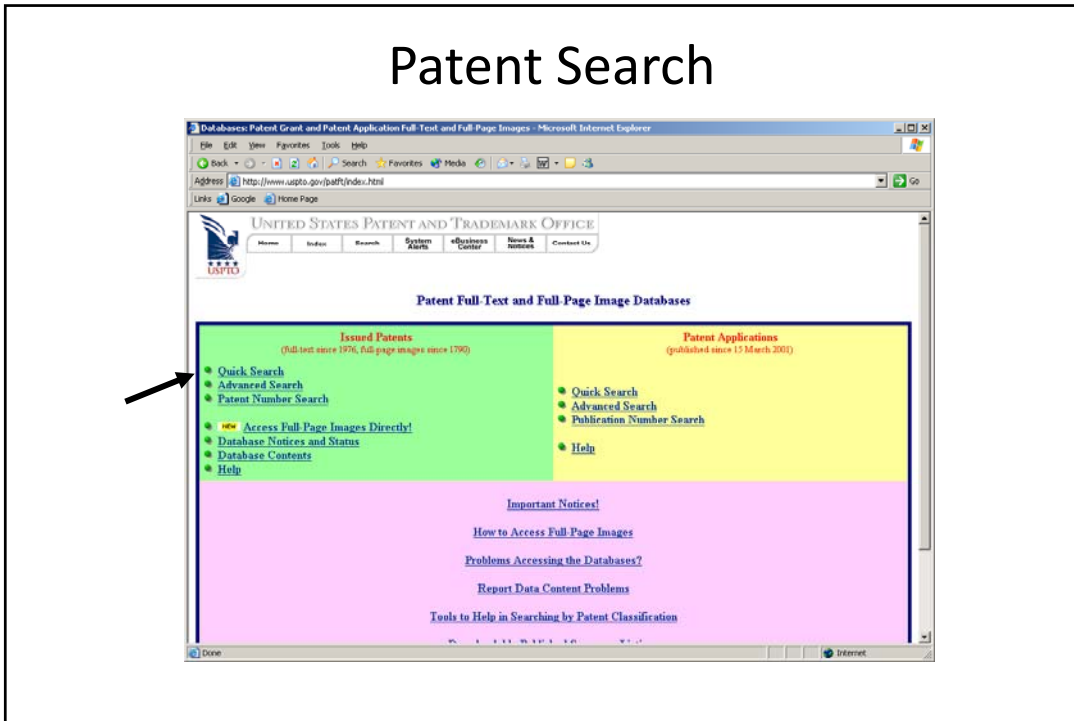
www.alternatiff.com



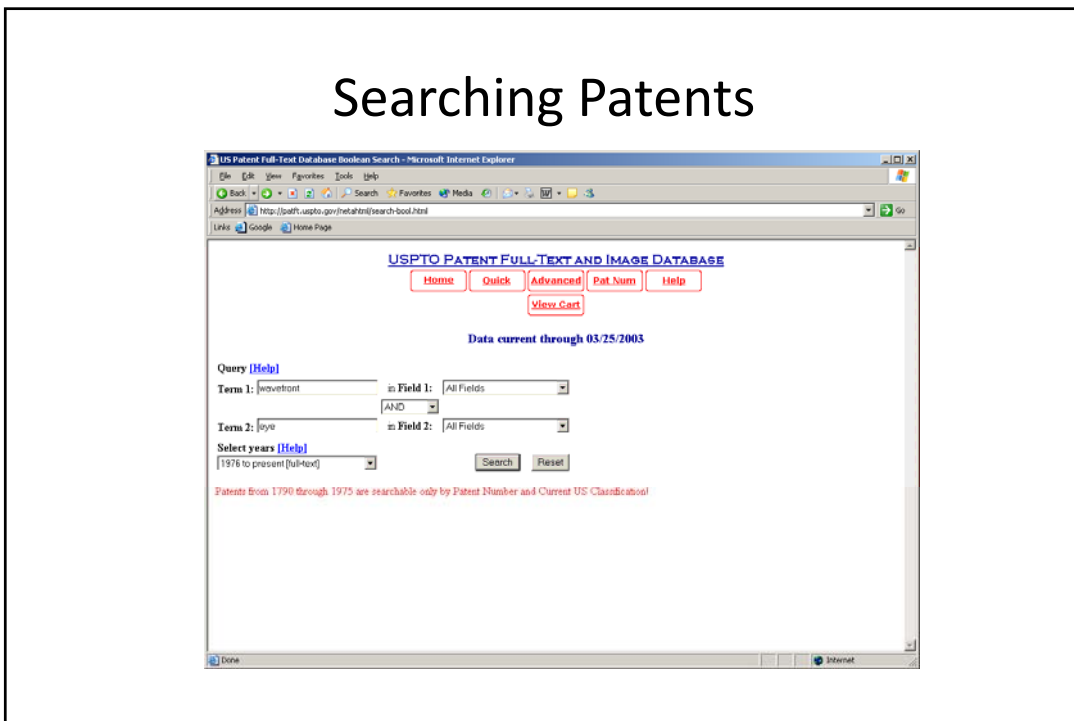
Installation allows you to view patent images on your browser.

alternatiffx-1_5_3.zip

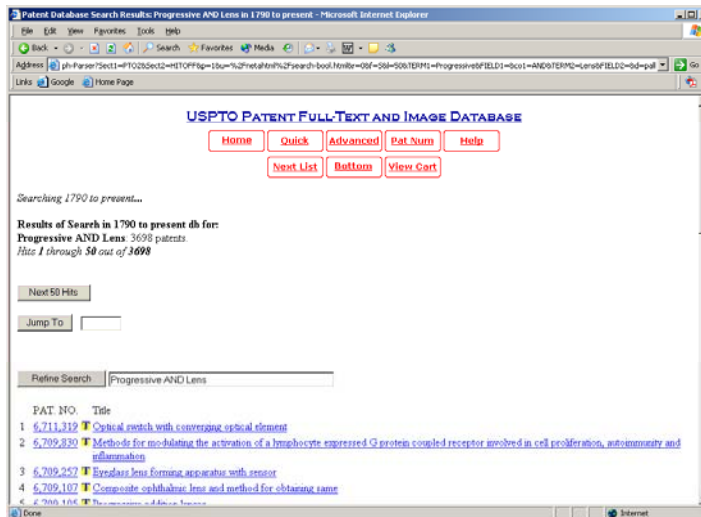
Patent Search



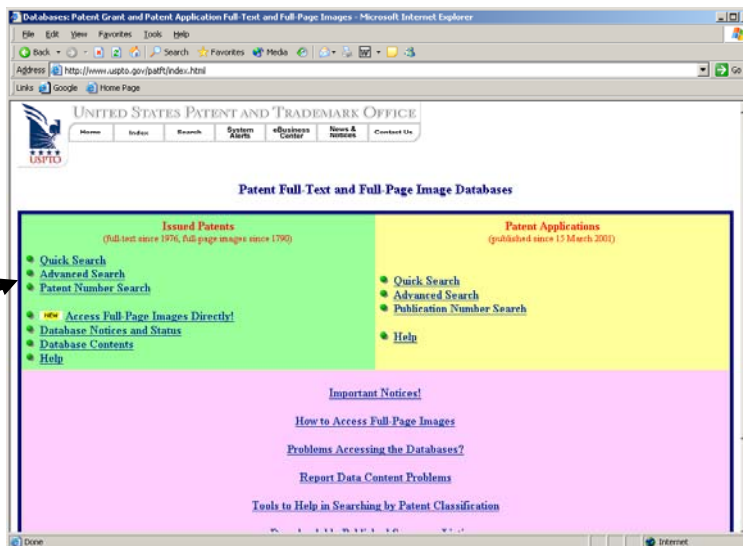
Searching Patents



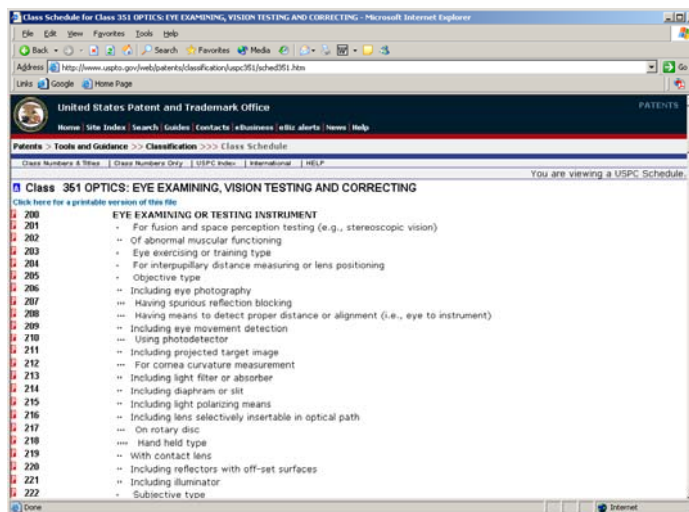
Search Results



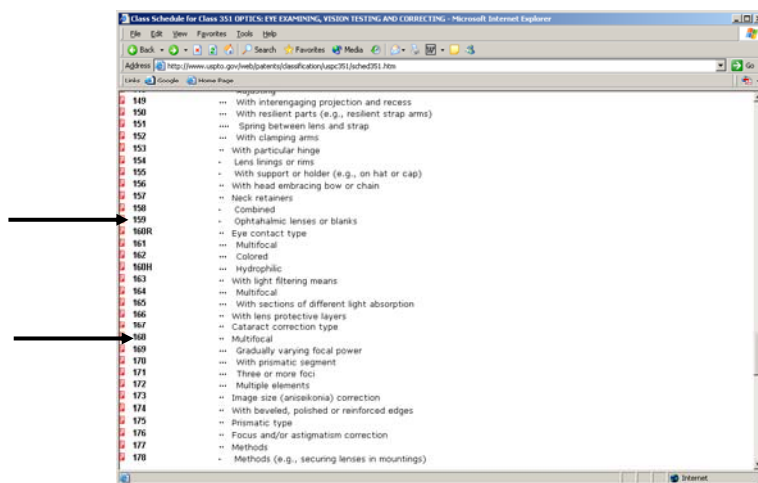
Patent Search



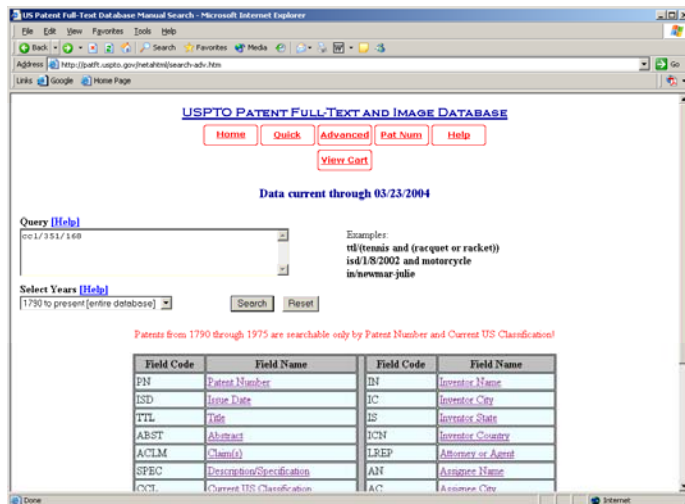
Patent Classification



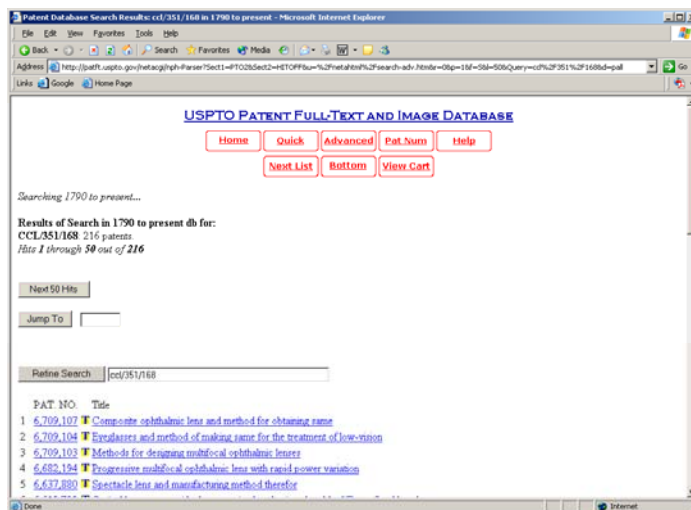
Patent Classification



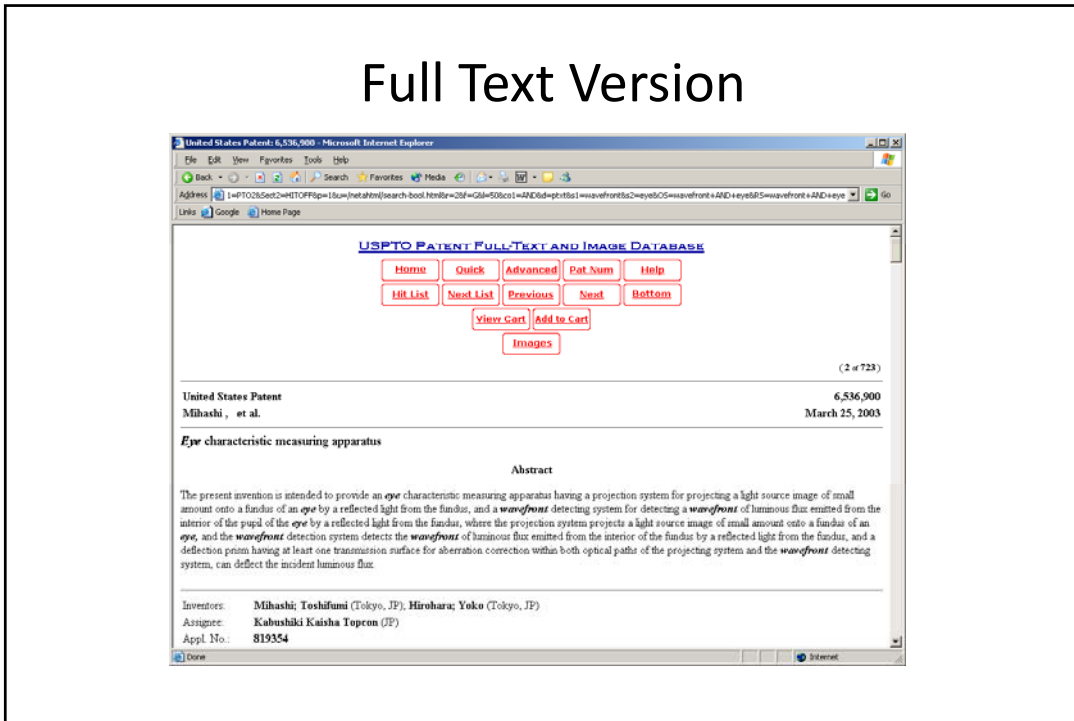
Advanced Search



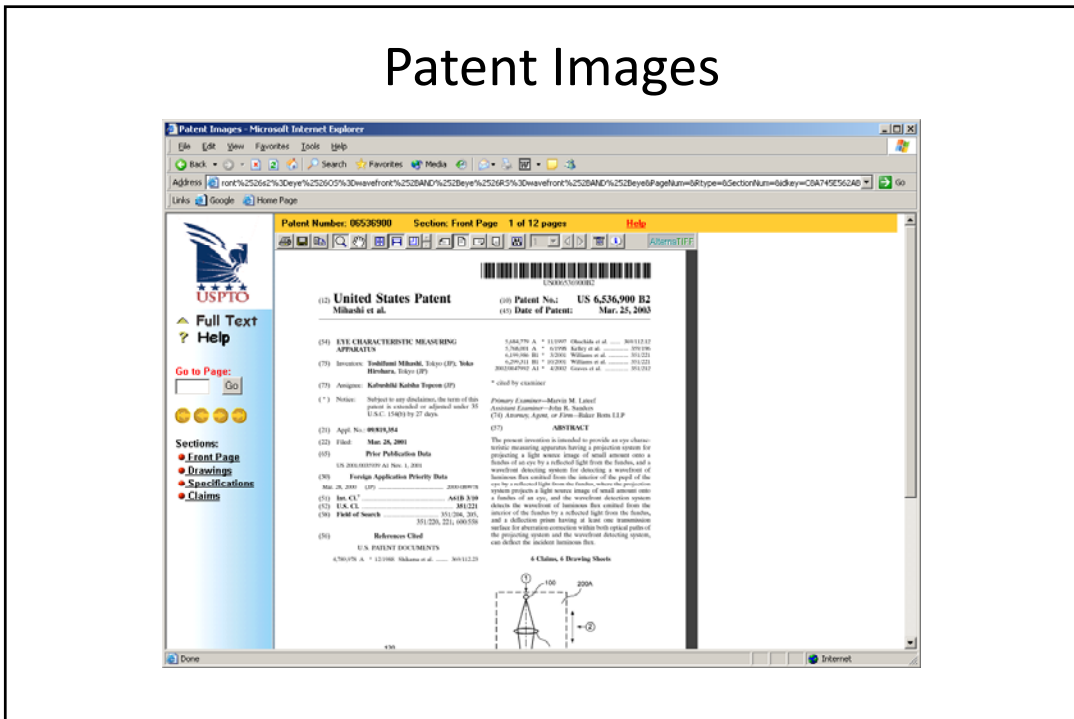
Search Results



Full Text Version



Patent Images



Saving Patent Images

- Can save images of patent for later viewing.
- Advantages
 - Free
- Downsides
 - Only one page shown at a time.
 - Images saved as individual tiff files.
 - Lots of users slows download times.

Obtaining Patents in PDF

The screenshot shows a web browser window displaying the website www.pat2pdf.org. The page title is "www.pat2pdf.org - A FREE patent search tool". The main heading is "Download U.S. patents (in PDF) and more!". Below this, there is a form to enter patent information. The form includes a table for selecting patent types and their corresponding codes, and a text input field for the patent number.

For:	Enter:
US Utility Patent	5000000 or 5,123,456
US Pre-Grant Publication	20040123456 [you may need to add a "0" after the year.]
US Design Patent	d50000
US Plant Patent	pp05000 [add leading 0's if needed]
US Reissue	re34343
US Statutory Invention Reg.	h1234
Multiple Requests	Separate with a semicolon: 12345; pp6000

Enter Number(s): Fetch Patent(s) [Reset]

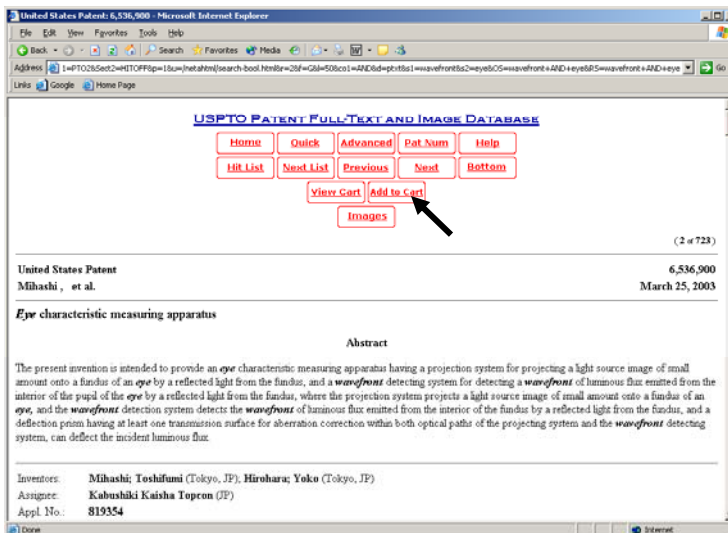
You can also [search the MPEP online](#).

To link to a patent, please use the following format:
<http://www.pat2pdf.org/pat2pdf/foe.pl?number=XXXXXXX> where XXXXXXX is the patent number.

HELP:
 2008-06-20 It appears that the USPTO was blocking this site's IP address earlier today. Everything seems back to normal now. Many thanks to whomever at the USPTO took care of the problem.

ABOUT:
 pat2pdf.org originally relied on the patent fetching/PDF conversion script, pat2pdf.pl and was rewritten in perl by Bryan Fordham. This site is now maintained by Bryan Fordham.

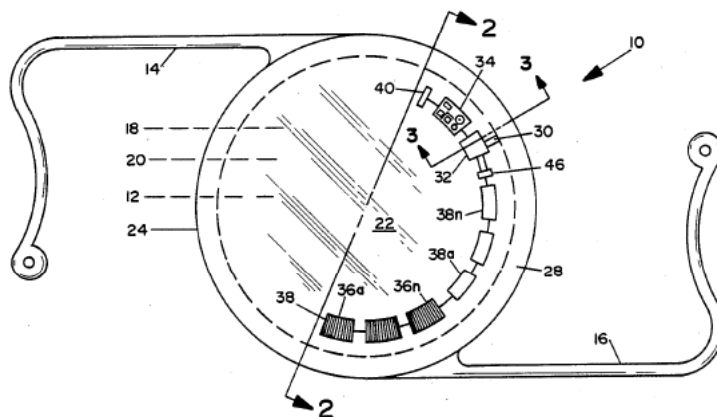
Full Text Version



Parts of a Patent

- Drawings
- Specification
 - Title, References, Statements
 - Background
 - Summary
 - Drawing Description
 - Description
 - Operation - Main and alternative embodiments
 - Conclusion
- Claims
- Abstract

Patents Drawings



Specification - Background

- Short description of the state of the general field the inventions pertains to.
- Describes the problems to be solved.
- Describes prior art (i.e. what's already out there to address this problem).
- Criticism of relevant prior art.

Specification - Summary

- Describes how your invention addresses the previously stated problem.
- Describes why your invention is useful.
- Positive aspects of the invention (relative to criticisms of prior art).

Specification - Drawing Description

BRIEF DESCRIPTION OF THE DRAWINGS

35 Other objects of the present invention and many of the attendant advantages of the present invention will be readily appreciated as the same becomes better understood by reference to the following detailed description when considered in connection with the accompanying drawings, in which like reference numerals designate like parts throughout the figures thereof and wherein:

45 FIG. 1 illustrates a plan view of an intraocular lens system, the present invention;

FIG. 2 illustrates a sectional view taken along line 2—2 of FIG. 1;

FIG. 3 illustrates a sectional view taken along line 3—3 of FIG. 1;

50 FIG. 4 illustrates an alternative embodiment;

FIG. 5 illustrates a partial cross-sectional view taken along the line 5—5 of FIG. 6, showing a diaphragm pump according to the invention having ball-check valves at the inlet and outlet ports;

55 FIG. 6 illustrates a top view of the diaphragm pump shown in FIG. 5;

FIG. 7 illustrates a partial cross-sectional view taken along line 7—7 of FIG. 8, showing a diaphragm pump according to the invention having diaphragm valves at the inlet and a ball-check valve at the outlet port;

60 FIG. 8 illustrates a top view of the diaphragm pump shown in FIG. 7;

FIG. 9 illustrates a partial cross-sectional view taken along lines 9—9 of FIG. 10, showing a diaphragm pump according to the invention having diaphragm valves at the inlet and outlet ports;

65 FIG. 10 illustrates a top view of the diaphragm pump of FIG. 9;

- Brief description of each of the drawings.

Specification - Description & Embodiments

- Thoroughly describes the theory and process for the invention.
- Describes figures in full detail and the function of the labeled items.
- Describes the preferred embodiment (i.e. what's the best way to make the invention).
- Describes alternative embodiments.
- A person "reasonably skilled in the art" must be able to make or implement the invention based on this description.

Specification - Conclusion

- Summarizes utility and novelty of the device.
- Summarizes advantages of the invention over prior art.
- Statement that the invention is not limited to the physical form shown in the description.

Claims

- Precise statements about the invention.
- Regardless of what is stated in the description, only the concepts within the Claims are protected by law.
- Claims should be as broad as possible to prevent competition from working around the patent.
- Claims then should specify ranges and/or materials to be more specific.
- Claims are sometimes repeated several times with different wording to prevent misinterpretation.

Homework

- Get a copy of US Patent 3,751,138 “Variable Anamorphic Lens and Method for Constructing Lens” invented by William E. Humphrey.
- Read Patent for Thursday’s class.
- Identify the different sections of the patent discussed today.