FST3105 Library Tutorial
19 August 2019
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NUS Libraries
Learning Outcomes

• By the end of this session, you should know:
  • Business Information
    • Where to find industry reports and information on food and beverage products
    • Where to locate F&B consumption behavior information
    • How to find reports on technological innovations in the F&B Industry
  • Patent Information
    • What is a patent?
    • How to read a patent document
    • Where to look for patents information (for NUS students)
    • How to search for patents in Patsnap
Locating Industry & Consumer Data

For Food and Beverage Products

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Industry and Market Information

• **Passport** – *Analyses* and *Statistics* on Food and Beverage Markets, *Consumer Behaviour* and *Trends*; also data on Ingredients and Packaging

• **Frost and Sullivan** – Get macro reports such as *Industry reports* on Sauces and Dressings in Asia-Pacific, or Alcoholic Drinks in Singapore
Industry and Market Information

• **Factiva** – Current and new information via newspapers and magazine articles. Covers local and international publications in several languages.
Locating Databases

• Go to [www.lib.nus.edu.sg](http://www.lib.nus.edu.sg) and click on the Databases tab:
Quiz Time!

• Go to kahoot.it on your laptop or mobile phone browser
• Enter the game pin (displayed on big screen)
• Get ready to play!
For Further Assistance...

- Email me
  - More suggestions for databases/data sources
  - Make an appointment for meeting in person, or via Skype, Zoom etc... for a tailored, in-depth consultation

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Introduction to IP & Patents

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What is a patent?

• Patent – A Definition

“A patent is a right that is granted for an invention. It can take the form of a new product, process or technical improvement to existing technology.”

Source: https://www.ipos.gov.sg/understanding-innovation-ip/patent [IPOS]

• Need to satisfy certain criteria:
  • New
  • Inventive step
  • Industrial application

Source: https://www.ipos.gov.sg/understanding-innovation-ip/patent [IPOS]
Introduction to IP & Patents

- Patents is one form of intellectual property (IP)
- Other forms of IP include copyrights, registered designs, trademarks
- For more information, go to Patent Libguide and refer to the FAQ section.

FAQs and Articles to Read

  This journal article appears as part of special issue: Best of the Search Matters (September 2018).
- FAQ: How to find if I have a patent number?
  Quick guide on how to find the patent document if you have the number.
- FAQ: How to read a patent?
  This is one of the FAQs from The Lens. A U.S. patent is used as an example to explain the purpose and goals for each section of the patent document.
- Inventor's handbook
  "Basic guidance on the key stages of turning an invention into a commercial product." - EPO
- IPOS Singapore: Understanding IP & Innovation: Patents

http://libguides.nus.edu.sg/patents
What are the types of IP found in such products?

**Trademarks** – apple logo, “Iphone”

**Registered designs** – aesthetic appearance (shape of the phone)

**Layout design of ICs**

**Copyright** (embedded operating system and other software)

**Patents** – Functional features and is one of several forms of intellectual property (IP)

For more information, go to [Patent Libguide](#) (FAQs and Articles section).
IP Protection for Food Industries


• Singapore - Case Studies from IPValueLab (https://www.ipvaluelab.com.sg/Case-studies)
  • Awfully Chocolate
  • Burpple
A Very Simple Timeline - Patent Filing

Inventor
File for
Patent

Publication of
Patent
Application

- Typically published 18 months after the filing date of application

Publication of
Granted Patent

- May take up to several years before a patent is granted
- Generally, protected for 20 years from date of filing

Patents may be abandoned or may expire earlier
What is in a Patent Document

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What is in a patent document?

<table>
<thead>
<tr>
<th>Fields</th>
<th>Generally consist of</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bibliographic Data/Information</td>
<td>Patent Number; Type of Patent [e.g. granted or application]</td>
</tr>
<tr>
<td></td>
<td>Title; Inventor Name; Assignee Name; Publication/Issue Date</td>
</tr>
<tr>
<td></td>
<td>Classification Numbers [can use to search for similar patents]</td>
</tr>
<tr>
<td>Drawings</td>
<td>- May contain drawings</td>
</tr>
<tr>
<td>Descriptions (of the Invention)</td>
<td>- Background of the Invention [e.g. problem trying to solve, summary of what is known]</td>
</tr>
<tr>
<td></td>
<td>- Detailed description of the invention</td>
</tr>
<tr>
<td></td>
<td>- May contain examples</td>
</tr>
<tr>
<td>Claims [defines legal boundaries of the patent document]</td>
<td>- May consist of: Independent Claims, Dependent Claims</td>
</tr>
<tr>
<td></td>
<td>- Usually starts with phrases like “I claim”, “We claim”, What is claimed is”</td>
</tr>
</tbody>
</table>
How to Find Patents Using Patsnap

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How to Find Patents – Patent Libguide

NUS Subscribed Databases

- Patents
  "The Patents database provides coverage of over 150 countries worldwide, offering IPC, Armenia, China, Germany, Japan and Taiwan." Patents cover over 122
- Patent FAQ on Usage Coverage
- Patent (Create for Full-Text Retrieval)
- Patent account allows you to set up alerts and access other features. NUS only
- Patents - Search help
  Information on searchable fields, search syntax, kind codes used in Patents, etc.
- Patents - Expert Search
  This is a quick guide for using parent classification to search.
- Patents - Semantic Search
  This is a quick guide for using the Expand function to search.
- Patents: Databases
  - NUS Subscribed Patent Database

Internet Sources

- International
  - EPO Patent (European Patent Office)
    - This multilingual website enables users to search patent documents via EPO or through
    - Online Help & Glossary of Terms
    - Search points to consider before starting your search (new EPO)
- Free Patents Online
  - Sign up for free account to view PDF of patents. Find US, EU, Japanese & PCT applications.
    - Data coverage: http://community.freepatentsonline.com/annual-data.html#d
    - Google Patents
      - Google Patents includes over 27 million patent publications from 17 patent offices area.
      - About Google Patents (https://patents.google.com/patents/)
- The Lens
  - Free full-text worldwide patent searching covering US, Europe, Australia and WIPO, et
    - Data coverage: Lens
    - Help / Support: Lens
    - Video tutorial on how to search Lens effectively
    - PatentScope Search facility (WIPO's Gateway to Patent Services and Activities)
Login: Patsnap

Login via:
NUS Libraries Portal (http://libportal.nus.edu.sg)

Tips:
You can also access Patsnap via Patent Libguide (Database tab) (http://libguides.nus.edu.sg/patents)
How to Find Patents Using Patsnap

How to Find Patents Using Patsnap

• Single Document
• Keywords searching
How to Find Patents Using Patsnap

Search for a single patent document

US20140004225
Keywords Search: Low salt soya sauce

1. Identify the keywords in the topic
   - Low salt, soya sauce

2. Find the synonyms / alternate terms of the keywords
   - Salt, Sodium Chloride, NaCl

3. Look for different variations of keywords
   - Reduce, Reduces, Reduction ⇒ reduc*

4. Use phrase searching
   - “Soya Sauce” “Soy Sauce”

5. Use Boolean operators
   - “Low salt” AND “Soya Sauce”

Use AND and OR when necessary.
Search Statement

• Query: Low salt soya sauce

**Stemming** On (by default)

("soya sauce" OR "soy sauce") AND (salt OR “sodium chloride” OR NaCl) AND (reduce OR low)

Note: Stemming must be switched off when using wildcards like *

("soya sauce" OR "soy sauce") AND (salt OR “sodium chloride” OR NaCl) AND (reduc* OR low)
## Keywords Searching

- **Useful Search Operators**

<table>
<thead>
<tr>
<th>Operator</th>
<th>Explanation</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>AND</td>
<td>2 keywords must be found in document</td>
<td>apple AND orange</td>
</tr>
<tr>
<td>OR</td>
<td>Either keywords found in document</td>
<td>apple OR orange</td>
</tr>
<tr>
<td>NOT</td>
<td>1st keyword must be found but exclude 2nd keyword</td>
<td>apple NOT orange</td>
</tr>
<tr>
<td>“ “</td>
<td>Keywords within quotation marks must be next to each other in the order specified</td>
<td>“apple juice”</td>
</tr>
<tr>
<td>( )</td>
<td>Using parentheses to define search order</td>
<td>(apple OR orange) NOT juice</td>
</tr>
<tr>
<td>*</td>
<td>Replace a string of characters</td>
<td>function*</td>
</tr>
<tr>
<td>$Wn</td>
<td>Search words within “n” words of each other, in any order</td>
<td>vitamins $W5 nutrients</td>
</tr>
<tr>
<td>$WS</td>
<td>Search words within SAME sentence</td>
<td>vitamins $WS nutrients</td>
</tr>
</tbody>
</table>

Go to Search Helper for more tips: [Search Helper](#); Use of [stemming and wildcards](#).
Additional Search Tips: Semantic Search

Patent Number: US20140004225
Patent Analysis
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Patsnap Insights provides business intelligence information. You can assess opportunities and threats, find valuable information, about the company or technology, etc. The data is based on information extracted from Patsnap database.

2 Types of Dashboards
- Technology
- Company

How to Access
- From Search Results Sets (Patsnap)
- Workspace (Patsnap)
- Direct from NUS Libraries Portal
Patent Analysis - Patsnap Insights

Patsnap Insights

Additional Help
- Quick guide on finding company information
- Quick guide on finding technology information

Patsnap Website
- Additional Help on Patsnap Insights
Additional Guides on Searching Patsnap

Go to Patent Libguide: Databases
Patent Libguide

For more information on patents, please visit our Patent Libguide @ http://libguides.nus.edu.sg/patents
Feedback & Contact

Please also give us your feedback at end of today’s session at


For queries or request for advisory session, please contact:

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