THE ESSENTIAL GUIDE TO DISCOVERING PATENTS

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Industry Liaison Office

25 September 2017
2pm – 4pm
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PROGRAMME OUTLINE

• Basics of Patent Searching
  – Basics of Patent Documents
  – Using Search Operators
  – Find Other Relevant Patents
  – Additional Tips: Using Workspace, Search History and Alerts
• Patsnap Landscape
  – Generate Landscape Maps From Search Results
• Patsnap Insights
  – Company or Technology Dashboards
BASICS OF PATENT SEARCHING

LOH MEE LAN

SENIOR LIBRARIAN
LEAD, PATENT RESOURCE TEAM, NUS LIBRARIES
WHY SEARCH FOR PATENTS

• Point out new directions in research
• Generate ideas for projects
• Reduce wastage on duplicating research
• Gain access to a wealth of technical information not published anywhere else
• Don’t search patents only as last part of the research process
BASICS OF PATENT DOCUMENTS

View one of the patent record (US8119053)

Country & Kind Code

Example of Patent:
- **Cover Page**
  - Bibilographic Data
  - Patent No, Inventor Name, Abstracts, etc.
- **Specifications**
  - Descriptions of Invention
  - Technical Field, Background Art
- **Claims**
  - Defines the legal boundaries of protection
# TYPES OF PATENT SEARCHES

<table>
<thead>
<tr>
<th>Known Patent Search</th>
<th>Topic Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>Search by Number</td>
<td>Search by Keywords</td>
</tr>
<tr>
<td>Patent/Publication No.</td>
<td>US Classification (UPC)</td>
</tr>
<tr>
<td>Application No.</td>
<td>International Patent Classification (IPC)</td>
</tr>
<tr>
<td>Title</td>
<td>Cooperative Patent Classification (CPC)</td>
</tr>
<tr>
<td>Search by Name</td>
<td>Locarno Classification</td>
</tr>
<tr>
<td>Inventor Name</td>
<td></td>
</tr>
<tr>
<td>Assignee Name</td>
<td></td>
</tr>
</tbody>
</table>
SEARCH TOPIC: 3D PRINTING

- **Identify the keywords in the topic**
  - 3D Printing

- **Find the synonyms / alternate terms of the keywords**
  - Additive Manufacturing

- **Look for different variations of keywords**
  - Manufacture, Manufactures, Manufacturing
  - Manufactur* (with an asterisk indicating a wildcard for variations)

- **Use phrase searching**
  - “3D Printing”

- **Use Boolean operators**
  - “3D print*” OR “Additive Manufactur*”

Use AND and OR for searching.
## 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>1(^{st}) keyword must be found but exclude 2(^{nd}) keyword</td>
<td>apple NOT orange</td>
</tr>
<tr>
<td>&quot; &quot;</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 Syntax Tab](#)
SEARCH STATEMENT

Query: (3D printing) OR (Additive Manufacturing)
All Fields: Retrieved: **652,483 applications**

Query: “3D printing” OR “Additive Manufacturing”
All Fields: Retrieved: **31,618 applications**

Query: “3D printing” OR “Additive Manufacturing”
Title / Abstract / Claims Fields: Retrieved: **14,620 applications**
REFINE YOUR SEARCH RESULTS

Refine Search

(1) Select options on left of screen

(1) Click “Refine” button
FIND OTHER PATENTS

- Retrieve Other Relevant Patents Using:
- More Like This
- Citation Map
- Patent Classifications
ADDITIONAL TIPS: USING WORKSPACE, ALERTS, SAVED SEARCH, HISTORY

Tips:
Add relevant documents to your workspace
Exercise
PATSNAP LANDSCAPE

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25 SEPTEMBER 2017
Exercise
PATSNAP INSIGHT

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25 SEPTEMBER 2017

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Exercise
GUIDES & LINKS

- Industry Liaison Office. Information for researchers
  (http://enterprise.nus.edu.sg/technology-commercialisation/for-researchers)

  (http://libguides.nus.edu.sg/patents)
YOUR FEEDBACK IS GREATLY APPRECIATED

j.mp/RU_Feedback

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