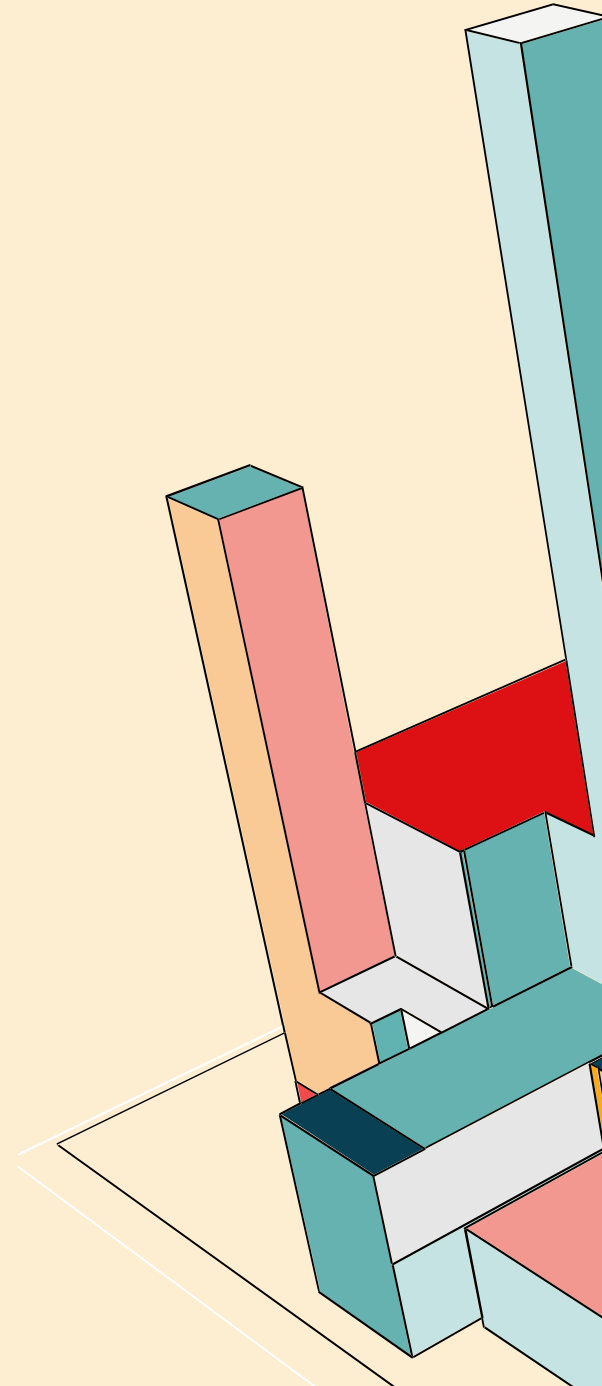


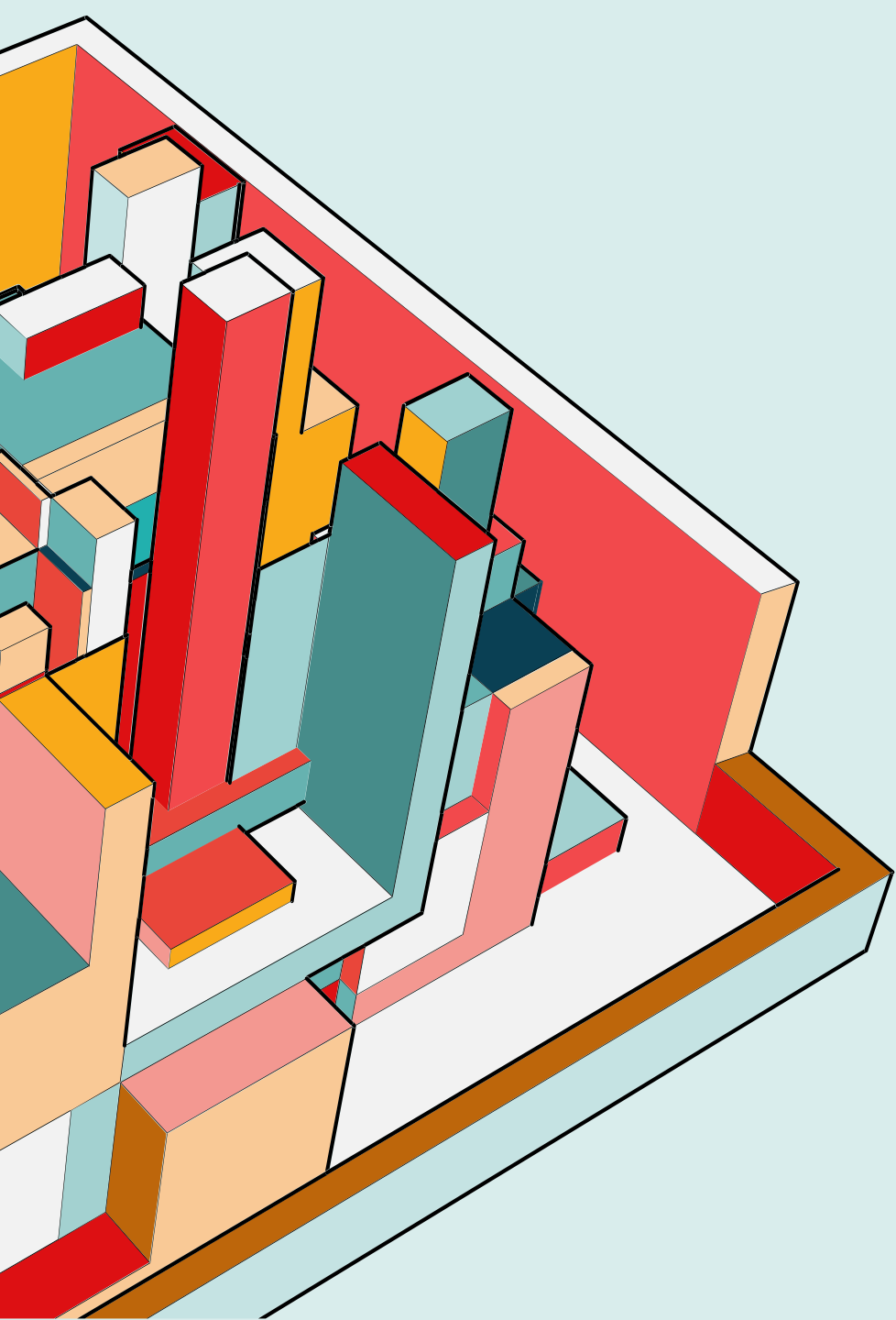
# **PATENTS AND STANDARDS**

By Rachel Scanlon and  
Alessandra Vetrugno

# WHAT WE'LL COVER TODAY

- What is a patent?
- Where to find patents
- What is a standard?
- Where to find standards?
- Referencing patents and standards

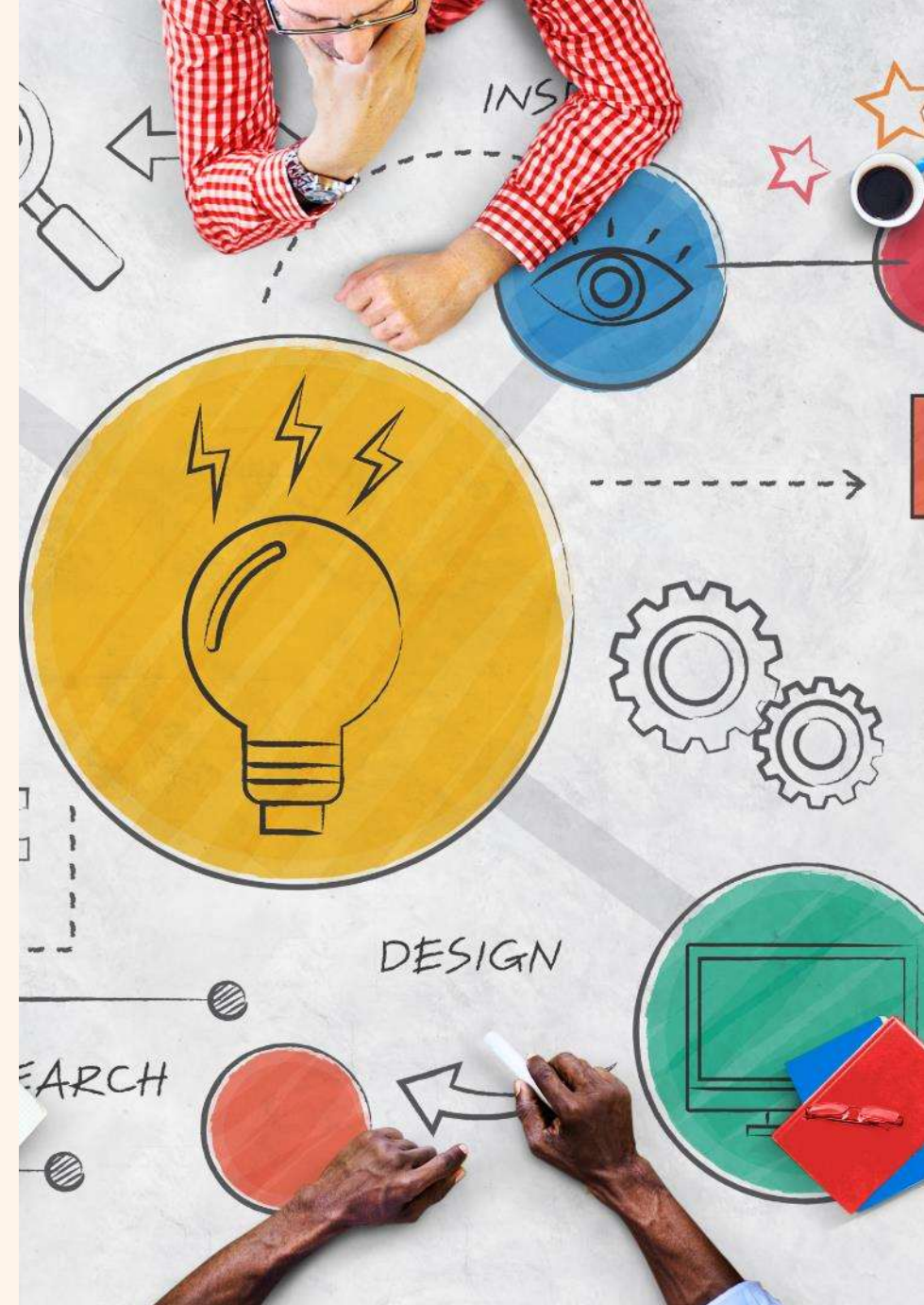




# IP - INTELLECTUAL PROPERTY

Refers to intellectual creations which carry a range of rights and protections. Includes copyright, trademarks, patents, and more depending on region.

# WHAT IS A PATENT?





# PATENT DEFINITION

A patent is an exclusive right granted for an invention. Patents benefit inventors by providing them with legal protection of their inventions. However, patents also benefit the society by providing public access to technical information about these inventions, and thus accelerating innovation.

World Intellectual Property Organisation (no date) *Patents*. Available at: <https://www.wipo.int/web/patents> (Accessed: 14/10/2024).





# PATENT DEFINITION

Exclusive right to  
commercially  
exploit the  
patented invention

Specific to  
territory/region

Fixed lifespan

Demonstrable  
originality

Publicly available



# WHO GRANTS PATENTS



- UK - The Intellectual Property Office (IPO)
- US - United States Patent and Trademark Office (USPTO)
- Europe - European Patent Office (EPO)
- China National Intellectual Property Administration (CNIPA)
- Full list on [WIPO website](#)



# TYPES OF PATENTS

## US

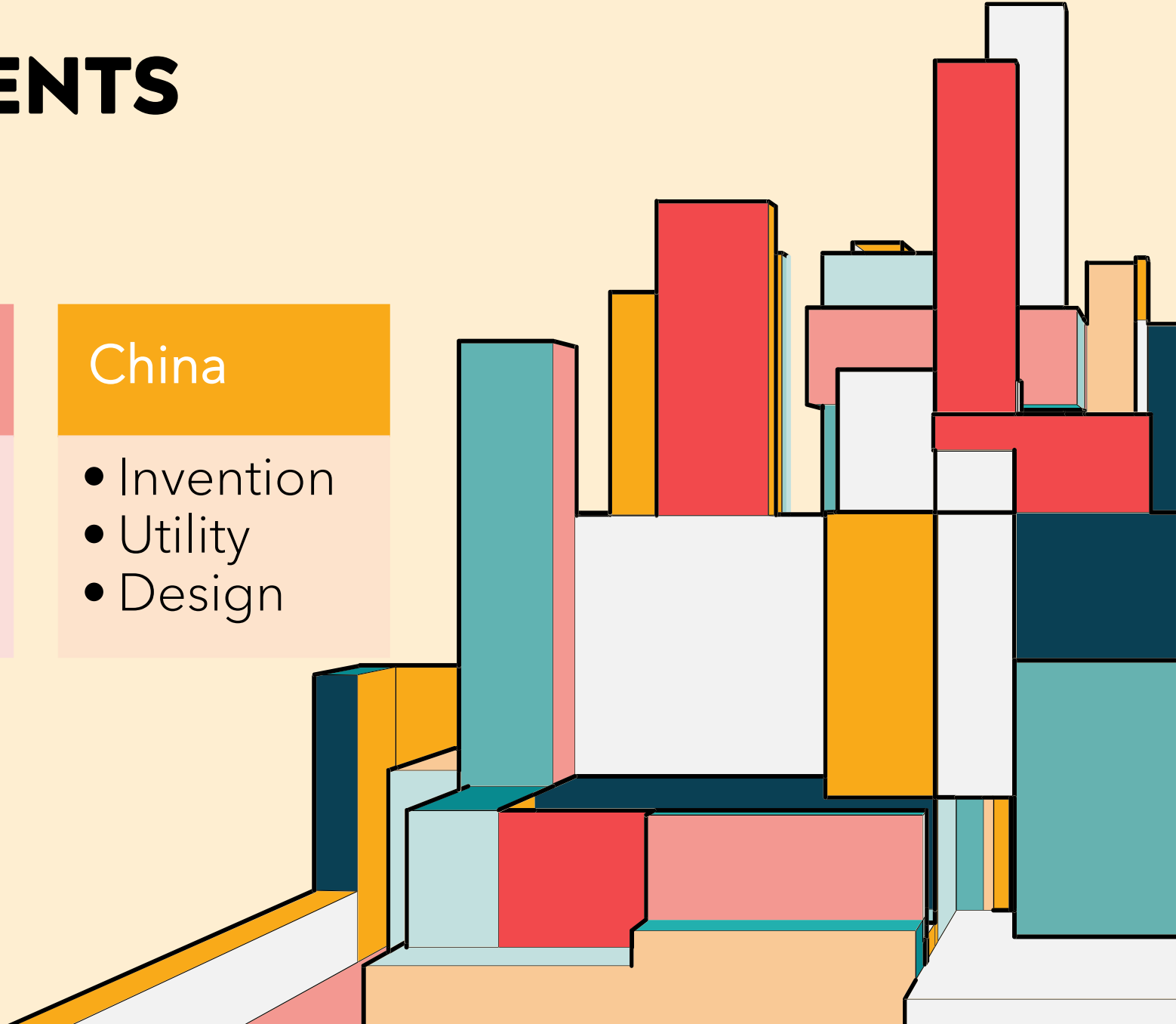
- Utility
- Design
- Plant

## UK and EPO

- Inventions only

## China

- Invention
- Utility
- Design





# HOW LONG DOES A PATENT LAST?

## US

- Utility - 20 years
- Design - 14 years
- Plant - 20 years

## UK and EPO

- Usually 20 years

## China

- Invention - 20 years
- Utility - 10 years
- Design - 15 years


Once a patent expires, the invention is in the public domain and may be made, used or sold by anyone without licensing.



# EXAMPLE OF A PATENT

Patent Number

Date Patent Granted

  
US005960411A

United States Patent [19]  
Hartman et al.

[11] Patent Number: 5,960,411

[45] Date of Patent: Sep. 28, 1999

Title

[54] METHOD AND SYSTEM FOR PLACING A PURCHASE ORDER VIA A COMMUNICATIONS NETWORK

Inventors

[75] Inventors: Peri Hartman; Jeffrey P. Bezos; Shel Kaphan; Joel Spiegel, all of Seattle, Wash.

Assignee

[73] Assignee: Amazon.com, Inc., Seattle, Wash.

Date of Application

[21] Appl. No.: 08/928,951

[22] Filed: Sep. 12, 1997

[51] Int. Cl.<sup>6</sup> ..... G06F 17/60

[52] U.S. Cl. .... 705/26; 705/27; 345/962

[58] Field of Search ..... 705/26, 27; 380/24, 380/25; 235/2, 375, 378, 381; 395/188.01;

“Pacific Coast Software Software creates virtual shopping cart.” Sep. 6, 1996. M2 Communications Ltd 1996.

“Software Creates Virtual Shopping Cart.” Sep. 5, 1996. Business Wire, Inc.

Terdoslavich, William. “Java Electronic Commerce Framework.” Computer Reseller News, Sep. 23, 1996, CMP Media, Inc., 1996, pp. 126, [http://www.elibrary.com/id/101/101/getdoc . . . rydocid=902269@library\\_d&dtype=0-0&dinst=](http://www.elibrary.com/id/101/101/getdoc...rydocid=902269@library_d&dtype=0-0&dinst=). [Accessed Nov. 19, 1998].

“Internet Access: Disc Distributing Announces Interactive World Wide.” Cambridge Work-Group Computing Report, Cambridge Publishing, Inc., 1995, [http://www.elibrary.com/id/101/101/getdoc . . . docid=1007497@library\\_a&dtype=0-0&dinst=0](http://www.elibrary.com/id/101/101/getdoc...docid=1007497@library_a&dtype=0-0&dinst=0). [Accessed Nov. 19, 1998].

(List continued on next page.)

10

# PARTS OF A PATENT NUMBER

EP

4428602

A1

Two letter  
country  
/jurisdiction  
code

Document number,  
has information  
related to patent  
family

Kind code/  
type number  
shows  
information on  
granting status



## PATENT CLASSIFICATION

- International Patent Classification (IPC)
- Cooperative Patent Classification (CPC)
- UK Classification Key (UKC) – no longer used
- United States Patent Classification (USPC) system – only used for plant and design patents





# WHERE TO FIND PATENTS

Databases, websites and patent  
searching techniques

# PATENTS DATABASES

Patents Databases

[Espacenet](#)

[Patentscope](#)

[Google Patents](#)

Literature databases that include some patents

[Reaxys](#) - search documents and filter to patents

[Derwent Innovation index via Web of Science](#)

[Scopus](#) - search keywords, on results screen filter to patents







## **EXAMPLE SEARCH**

Hydrogel use in  
dentistry

# ESPACENET

- Database contains millions of patent documents from around the world
- Available through SOLO
- **Export** to csv/xlsx file
- **Download covers** - download the first pages of the documents in a single PDF file
- Three search types
  - Smart
  - Advanced
  - Classification



# SEARCHING ESPACENET

Three search types

- Smart
- Advanced
- Classification

Can use

- Boolean Operators
- Brackets
- truncation symbols



# PATENTSCOPE

- From WIPO
- Available through SOLO
- **Download** results in bulk
- Can **analyse** results
- Lots of videos, guides and training on website



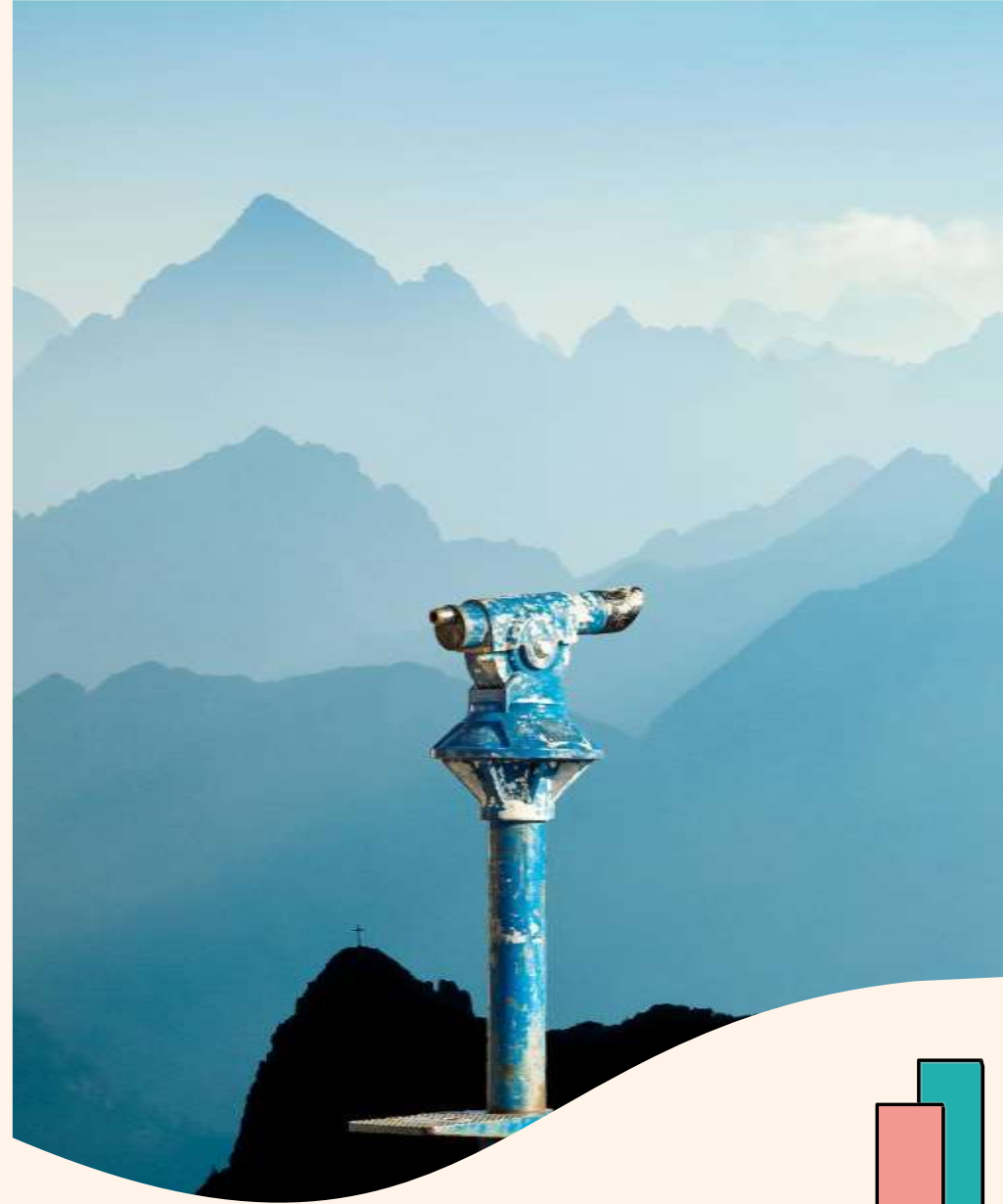
# SEARCHING PATENTSCOPE

Multiple searches

- Simple
- Advanced
- Field Combination
- Cross lingual Expansion
- Chemical Compounds

Can use

- Boolean Operators
- Brackets
- truncation symbols



## GOOGLE PATENTS

- Multiple download options
- Has a (limited) advanced search
- Documents translated with Google Translate, be careful.





# SEARCHING GOOGLE PATENTS

- Can use
  - Boolean Operators
  - Brackets
  - truncation symbols
  - (Unlike the main google search engine)





# **ACTIVITY: SEARCH ESPACENET, PATENTSCOPE OR GOOGLE PATENTS**

Portable solar  
energy generator

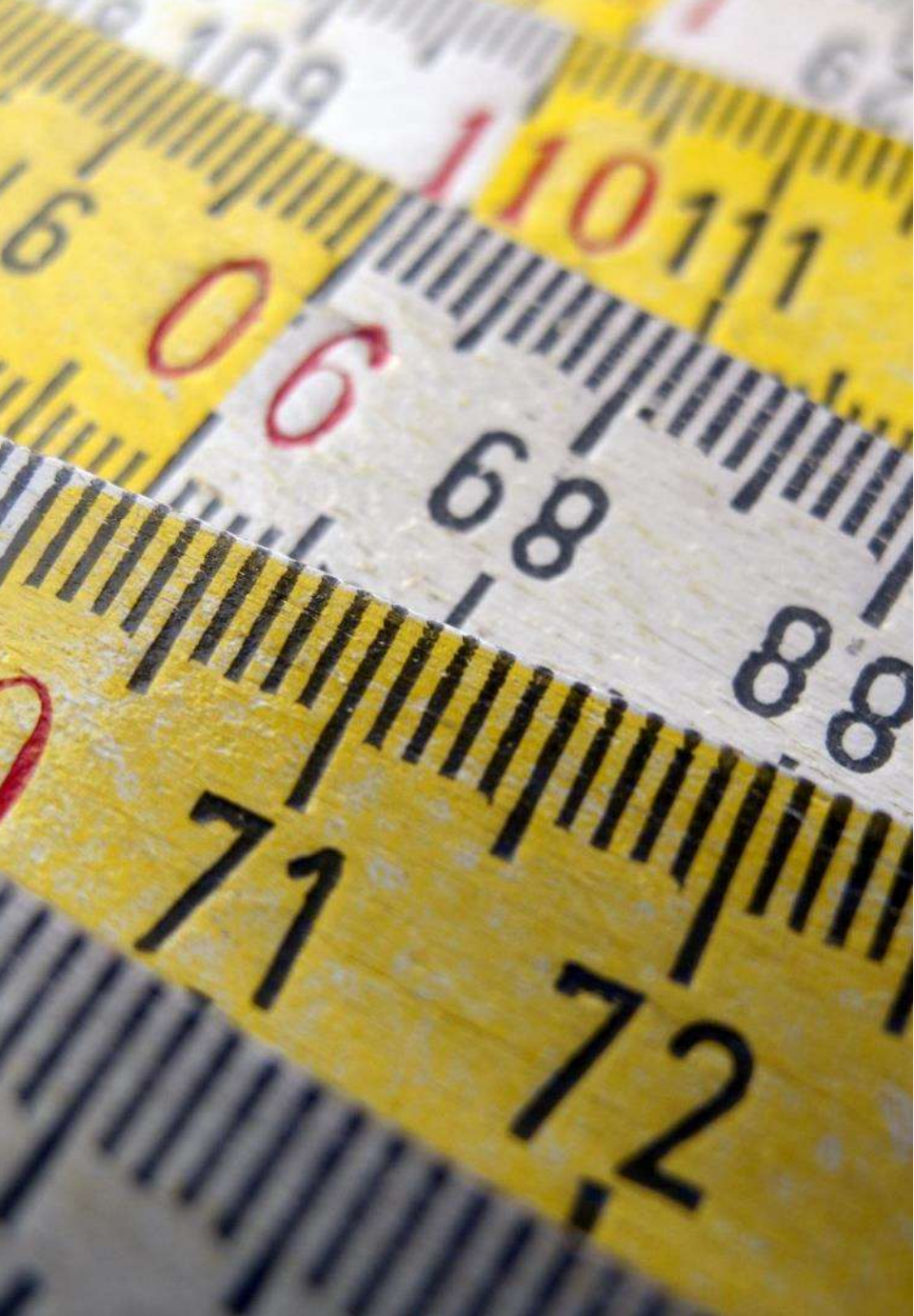


# **WHY MIGHT IT BE USEFUL TO SEARCH FOR PATENTS?**

Think about:

Newness of information

Confidential vs academic  
information



**WHAT IS A  
STANDARD?**



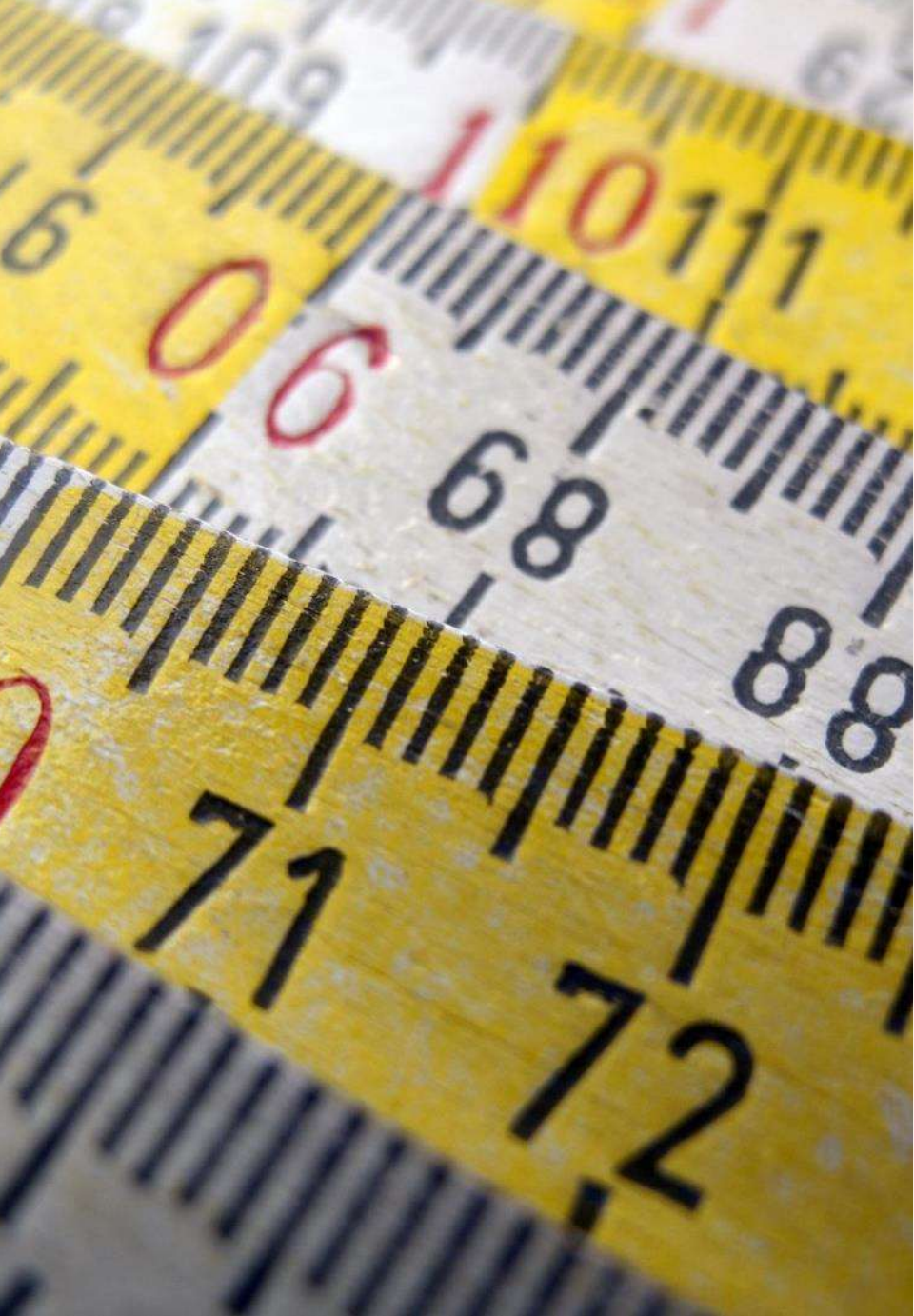
# STANDARD DEFINITION

Standardisation is the process of creating, issuing and implementing standards. A standard is a document, established by consensus and approved by a recognised body.

Standards can be supported through measurement, testing, certification, and accreditation

Department for Business and Trade and Office for Product Safety and Standards  
(7 October 2024) *Standardisation: Guidance*. Available at: <https://www.gov.uk/guidance/standardisation> (Accessed: 14/10/2024).





**WHERE TO FIND  
STANDARDS?**





# BRITISH STANDARDS ONLINE (BSOL)

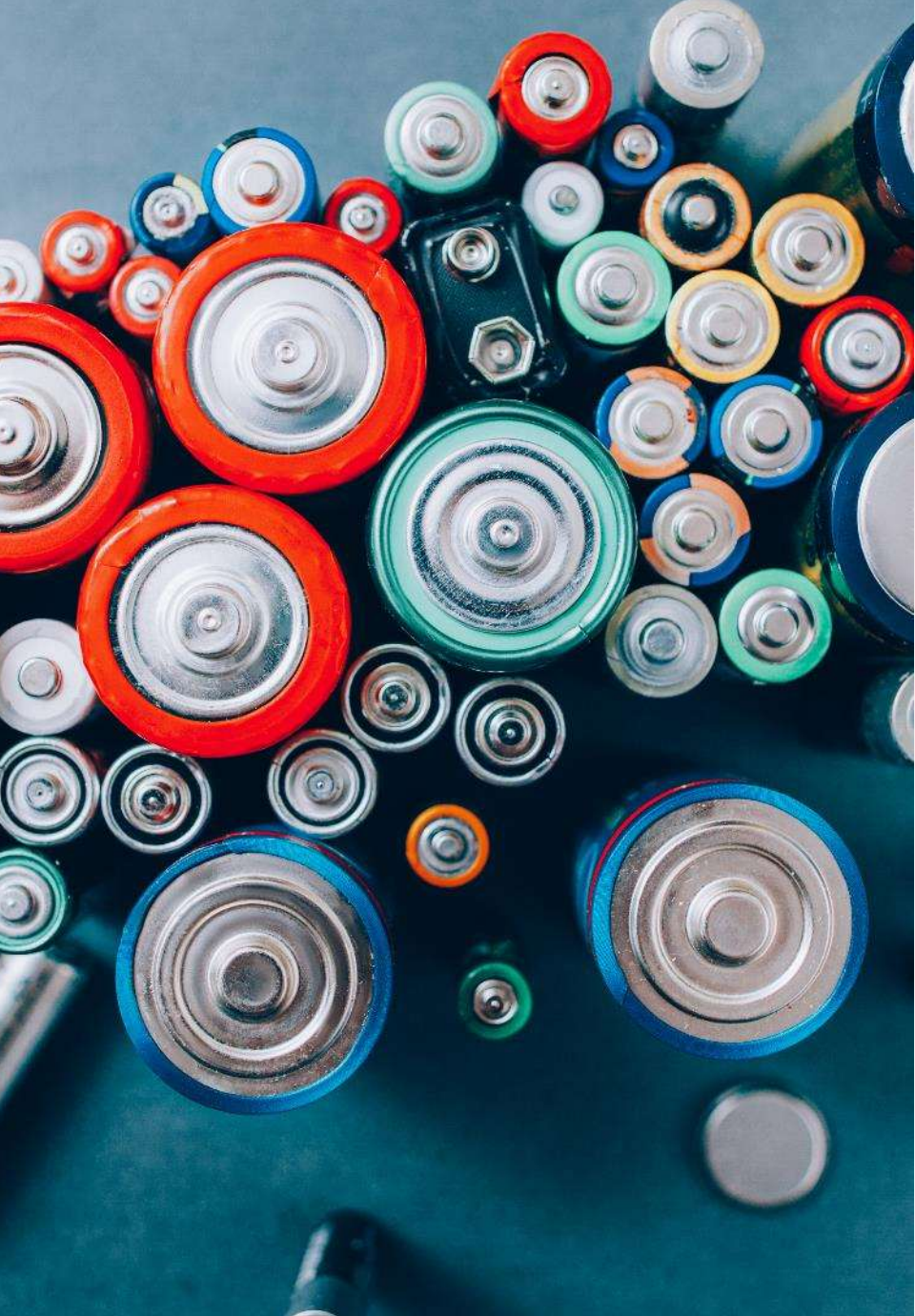
- Full text of British Standards.
- Access off campus with VPN.
- You will need to have the FileOpen plug-in installed in order to access BSI documents within BSOL.
- [Download the plug-in.](#)
- Oxford users have access to the full text of all British Standards, but not to all other publications on the platform.





# BSOL CONTINUED

- Can perform general searches or browse for specific standards
- Advanced search – can limit search by standard status e.g. current or superseded
- Can use Boolean Operators and truncation symbols



## **EXAMPLE SEARCH**

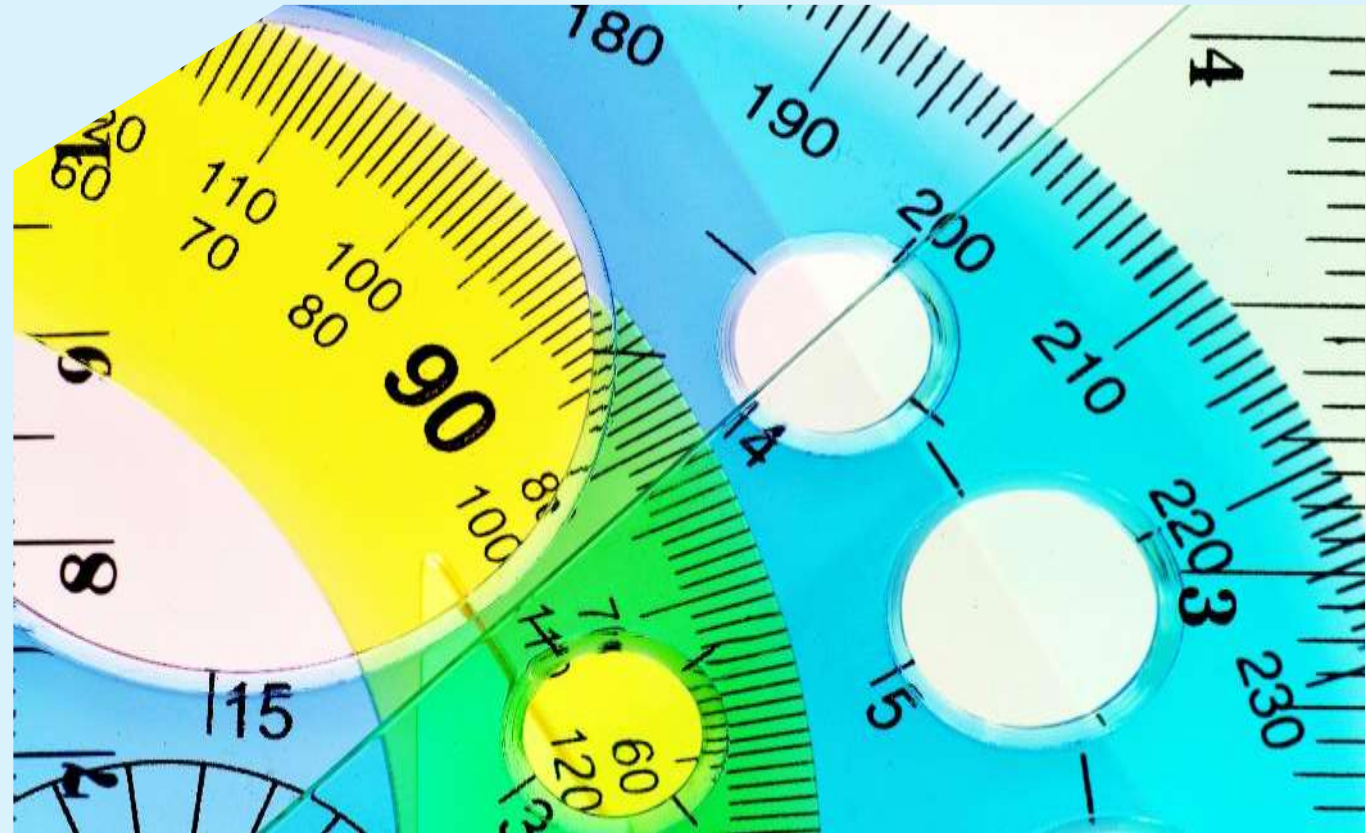
Lithium-ion  
batteries

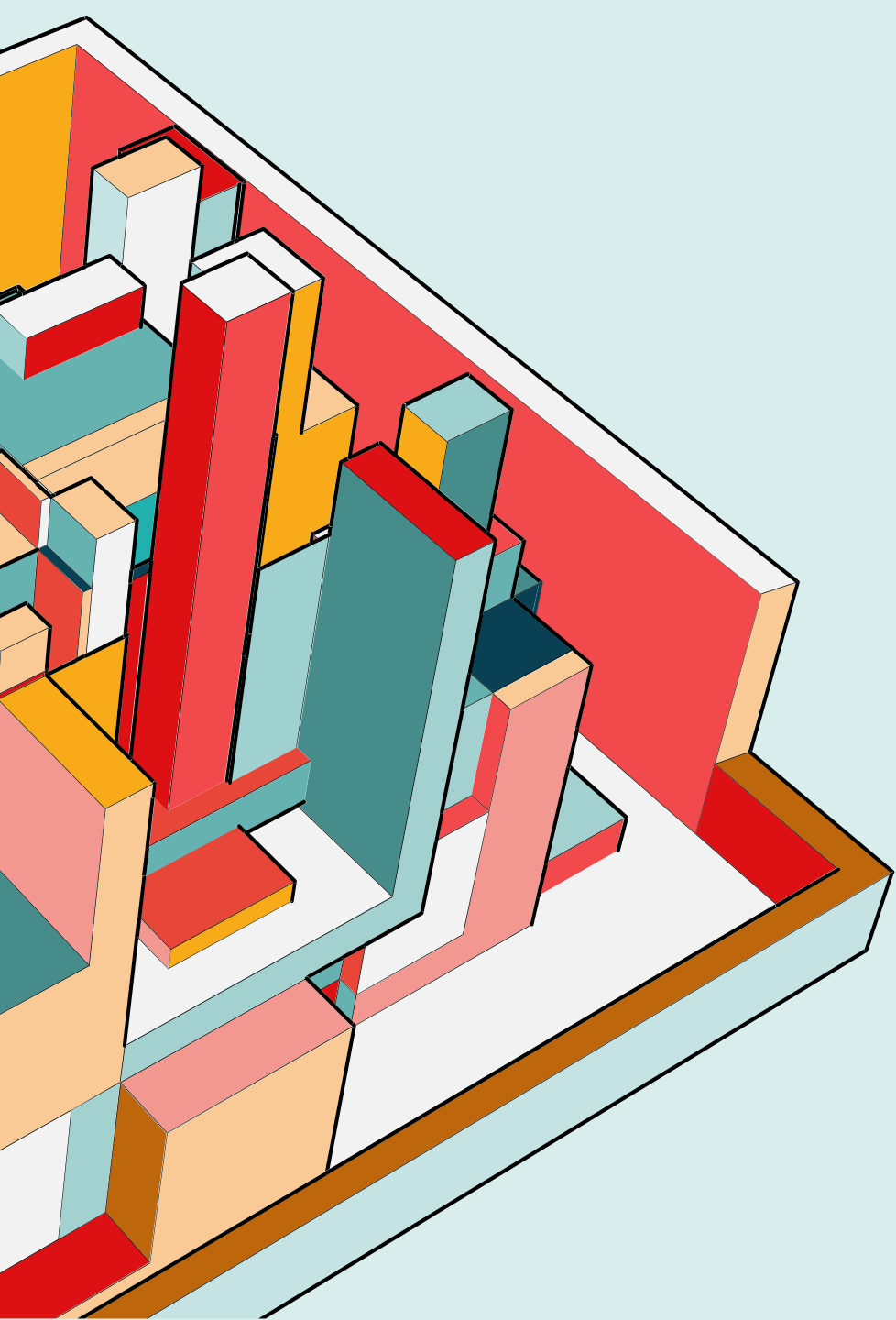


## OTHER PLACES FOR STANDARDS

[IEEE xplore](#) - IEEE standards -  
change drop down to  
standards and search

[ASTM Compass](#) - ASTM  
Standards and related  
technical literature.





# REFERENCING PATENTS AND STANDARDS

# CITING PATENTS

## IEEE Style

Hydrogel, by Y. Yoshiko et al. (2024, September 11).

European Patent  
EP4428602 [Online].

Available:

[https://patentscope.wipo.int/search/en/detail.jsf?docId=EP438552002&\\_cid=P21-M2MBUB-89565-1](https://patentscope.wipo.int/search/en/detail.jsf?docId=EP438552002&_cid=P21-M2MBUB-89565-1)

Will vary depending on style



Include the patent number and initials of patent office e.g.  
EP4428602



Ignore the kind code e.g. letter/  
number and letter at end



# CITING STANDARDS

## IEEE style

*Lithium-ion batteries and charging systems. Safety*, BS IEC 63370:2022, 2024.  
[Online]. Available:  
<https://bsol.bsigroup.com/Bibliographic/BibliographicInfoData/0000000000030433565>



The year in the standard number may differ from year of publication



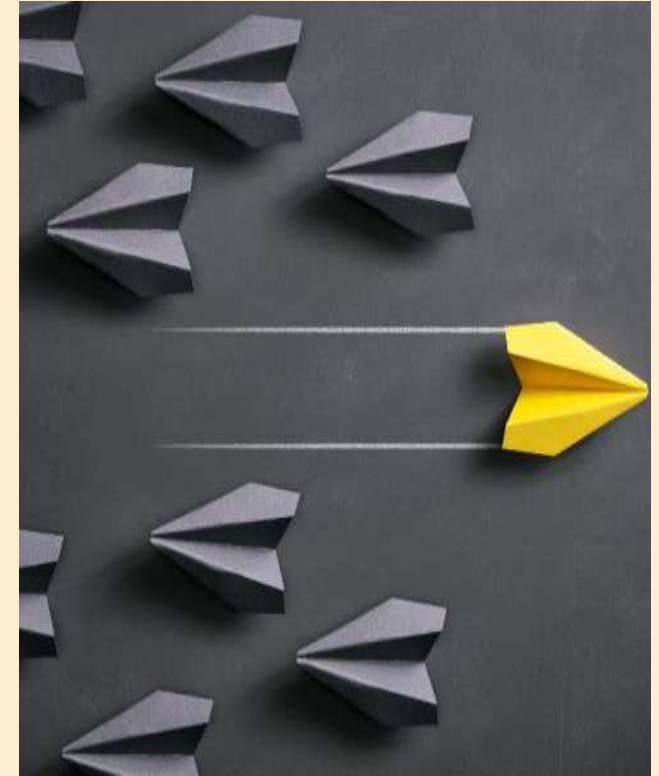
Some styles list the "name of authorising organisation" e.g. British Standards Institution



Some don't.

# TIPS ON REFERENCING PATENTS AND STANDARDS

- Double check that patents and standard have the correct metadata in your reference manager e.g. it says patent not article
- Use [Cite them right](#) for guidance
- Exact details will vary depending on style but always include
  - the full patent **publication** number
  - The full standard number



## FURTHER INFORMATION

[Patents Guide](#)

[British Standards Guide](#)



# THANK YOU

For any questions, please email me:

[rachel.scanlon@bodleian.ox.ac.uk](mailto:rachel.scanlon@bodleian.ox.ac.uk)

[Alessandra.vetrugno@bodleian.ox.ac.uk](mailto:Alessandra.vetrugno@bodleian.ox.ac.uk)

Twitter/X: <https://twitter.com/radcliffescilib>

Bluesky:

<https://bsky.app/profile/radcliffescilib.bsky.social>

Website:

<https://www.bodleian.ox.ac.uk/libraries/rsl>

Feedback greatly appreciated

