



January 2022

Discovering standards and patents

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Engineering Librarian



Today's Agenda

1. Standards

British standards

ATSM standards

ASME standards

IEC standards

Others

2. Patents

Derwent innovations index

Scopus

Others



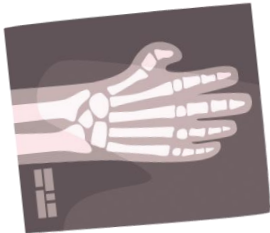
Standards



BS EN ISO 56005:2021?



ASTM F2100-21?



IEC 60613:2010?

Standards

- Technical documents intended to establish common and repeated use of rules, conditions, guidelines, or characteristics for products or related processes and production methods and for related management systems practices

(US Department of Homeland Security, 2008, p.97)

In a standard

Problem definition-

- Mission needs statement
- Operational requirements document

Solution definition-

- Performance requirements
- Functional specifications
- Design specifications
- Material specifications

(p.11-12)

Search in Find@HKUL

<https://lib.hku.hk/>

See a list of popular standards databases
in subject guides

[https://libguides.lib.hku.hk/c.php?g=766195
&p=5502325#s-lg-box-20781344](https://libguides.lib.hku.hk/c.php?g=766195&p=5502325#s-lg-box-20781344)

British Standards Online

http://find.lib.hku.hk/record=HKU_IZ61528480080003414

- all British standards
- international and European standards that have been adopted as British standards

British Standards Online

Demonstration

1. Browse standards related to
Food Technology
2. Search for standards related to
Innovation management



British Standards Online

The screenshot shows the BSOL website interface. At the top, the 'bsi.' logo and 'BSOL Standards Online' text are on the left. On the right, there is a 'Contact us' link with an email icon and a phone number '+44 345 086 8037'. Below this, a welcome message 'Welcome The University of Hong Kong' is displayed next to a red 'Logout' button. A navigation bar contains links for 'Home', 'My Account', 'Browse for Standards' (highlighted with a yellow box), 'My favourites', and 'Help and FAQs'. A search bar on the right contains the text 'E.g. BS 123 or valves' and a magnifying glass icon, with an 'Advanced Search' link below it. A red banner across the middle reads 'Browse by modules ▶ BSI, ISO and IEC Modules'. On the left sidebar, under 'Browse by Modules', the option 'BSI, ISO and IEC Modules' is highlighted with a yellow box. Below this are links for 'ASTM Modules' and 'ASME Modules'. Further down, the 'Browse by Subject' section is visible. At the bottom left, a 'FAQs' section lists questions like 'What is Browse?', 'Can I browse BSOL by module?', and 'Can I browse BSOL by Subject or ICS code?'. On the right side of the main content area, the 'About Standards Modules' section explains that standards are grouped into subject areas and broken down by publishing body. It instructs users to click on 'arrows' in the subject list to see available modules, then click on a 'module' to see the standards it contains. A list of subject areas is provided, with the first two items highlighted by yellow boxes: '▶ 01 Documentation' and '▶ 02 Information & Finance'. Other items in the list include '▶ 03 Vocabularies', '▶ 04 Management, Law, Quality', '▶ 05 Sciences & Health Care', and '▶ 06 Environment, Wastes'.

bsi. BSOL Standards Online

Contact us +44 345 086 8037

Welcome The University of Hong Kong Logout

Home My Account Browse for Standards My favourites Help and FAQs

E.g. BS 123 or valves Advanced Search

Browse by Modules ▶ BSI, ISO and IEC Modules

BSI, ISO and IEC Modules

ASTM Modules

ASME Modules

Browse by Subject ⓘ

FAQs

What is Browse?

Can I browse BSOL by module?

Can I browse BSOL by Subject or ICS code?

What are ICS codes?

About Standards Modules

The standards on BSOL have been grouped into subject areas to make it easier to find what you are looking for. These subject areas have been broken down by publishing body to create modules of standards.

Click on the **arrows** in the subject list below to see the modules available for a subject area, then click on a **module** to see the standards it contains. Alternatively, Browse by subject (ICS Codes).

- ▶ 01 Documentation
- ▶ 02 Information & Finance
- ▶ 03 Vocabularies
- ▶ 04 Management, Law, Quality
- ▶ 05 Sciences & Health Care
- ▶ 06 Environment, Wastes

Browse



British Standards Online

The screenshot displays the BSOL website interface. At the top, the BSI logo and 'BSOL Standards Online' are visible. Navigation links include 'Home', 'My Account', 'Browse for Standards', 'My Favourites', and 'Help and FAQs'. A search bar at the top right contains the text 'Innovation' and is highlighted with a yellow box. Below the search bar, a red banner indicates '18 result(s) found'. The search results are listed in a table. The first result is 'BS EN ISO 56005:2021', which is highlighted with a yellow box. The second result is 'BS ISO 56006: Innovation management. Tools and methods for strategic intelligence management. Guidance.'.

bsi. BSOL Standards Online

Contact us +44 345 086 8037

Welcome The University of Hong Kong [Logout](#)

Home My Account Browse for Standards My Favourites Help and FAQs

New Search

E.g. BS 123 or valves

Search within results

E.g. BS 123 or valves

Remove terms from filter

- innovation

☐ Only show results within my

18 result(s) found

Sort by Items per page

BS EN ISO 56005:2021

Innovation management. Tools and methods for intellectual property management. Guidance. [View details](#)

Status: Current | Published 03/12/2020

20/30357558 DC

BS ISO 56006. Innovation management. Tools and methods for strategic intelligence management. Guidance. [View details](#)

Status: Current, Draft for public comment | Published 10/08/2020

Search

British Standards Online

ISO 56005:2020

EN ISO 56005:2021

- approved by European Committee for Standardization (CEN) without any modification
- exists in three official versions (English, French, German)

UK implementation

**BS EN ISO
56005:2021
Innovation
management.**

ASTM International

http://find.lib.hku.hk/record=HKU_IZ61525611260003414

- 12,500+ standards for quality and testing
- developed by ASTM International
(formerly known as American Society for Testing and Materials)

ASTM International

Demonstration

1. Browse standards related to
construction
2. Search for standards related to
medical face masks



ASTM International

The image shows a screenshot of the ASTM International COMPASS website. The header includes the ASTM logo, the word "COMPASS", and links for "EN", "Help", and "Sign In/Register". A search bar is located below the header. The left sidebar contains a "Menu" button, a "Close" button, and links to "Home", "Subscriptions", "ASTM", and "Technical Committees". The main content area features the ASTM logo, the text "ASTM International", and a grid of links: "Book of Standards", "Research Reports", "Section 03: Metals Test Methods and Analytical Procedures", "Section 11: Water and Environmental", and "Section 04: Construction". A large orange button labeled "Browse" is positioned in the bottom right corner.

Menu

EN Help Sign In/Register

Close

Home

Subscriptions

ASTM

Technical Committees

Search keyword(s), designation, author

ASTM International

Book of Standards

Research Reports

Section 03: Metals Test Methods and Analytical Procedures

Section 11: Water and Environmental

Section 04: Construction

Browse



ASTM International

Standards

The screenshot shows the ASTM COMPASS search results page. The search term 'medical masks' is entered in the search bar. The results are filtered to show 25 items, sorted by Best Match. The first result is 'F2100-21 Standard Specification for Performance of Materials Used in Medical Face Masks'. The page includes a sidebar with filters for Document type and Publisher, and a top navigation bar with a menu, language (EN), help, and sign in/register options.

Menu EN ▾ Help ▾ [Sign In/Register](#)

All ▾

Show: 25 ▾ Sort By: Best Match ▾

Refine Your Results [Clear All](#)

Document type ▾

Publisher

- ☐ ASTM 141367 ▾
- ☐ AASHTO 5 ▾

[See More](#)

Standard
ASTM
Active

Last Updated: Aug 10, 2021 | English | Other Versions ▾

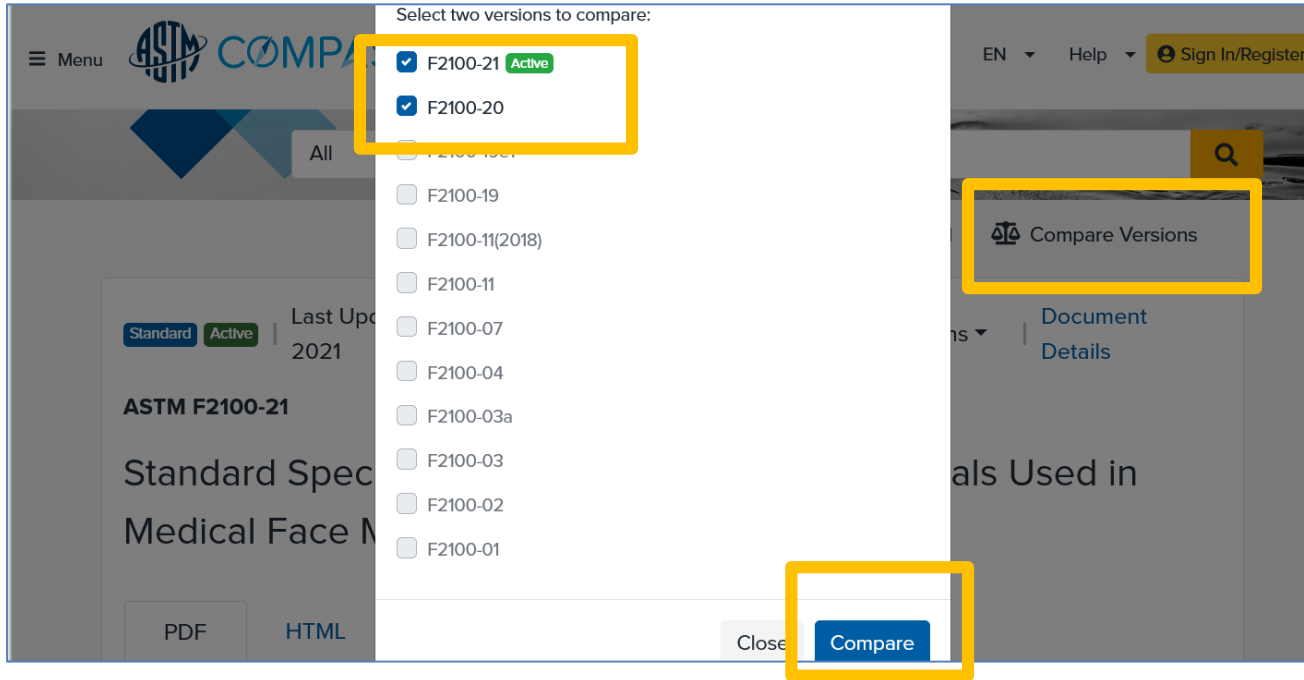
F2100-21
Standard Specification for Performance of Materials Used in Medical Face Masks

1.1 This specification covers testing and requirements for materials used in the construction of medical face masks to...

[Show More](#)

Search

ASTM International



Compare versions

ASME Standards Collection

http://find.lib.hku.hk/record=HKU_IZ61553051130003414

- 871 standards in Complete ASME Codes & Standards Collection
- 103 standards in BPVC Boiler and Pressure Vessel Code Complete Set
- 768 standards in Non-Boiler and Pressure Vessel Code Complete Set



ASME Standards Collection

Demonstration

1. Search for standards related to boilers





ASME Standards Collection

Sign in: 

or

[Click here](#) to access via institutional account

Search



☐ Document Number ☒ Text

Search inside: ☒ Title ☐ Title and Abstract ☐ Full Text

Search



ASME Standards Collection



THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

[Home](#) [My Account](#) [Tools](#) [Help](#) [Sign-Out](#)



Clear



Print

ASME BPVC.II.C 2021ASME BPVC.II.C-2021

Generate Printer Friendly Output

Selected Item:
ASME BPVC.VII 2021

Options:

1. Selected items only

Pages: From To

Note: Limit maximum 50 pages at a time.

Print

IEC Library Server

http://find.lib.hku.hk/record=HKU_IZ61547961250003414

- 12,481 standards for electrical, electronic and related technologies
- by International Electrotechnical Commission

IEC Library Server

Demonstration

1. Search for standards related to X-ray





IEC Library Server

1 - 1 of 1

Resource available at: [IEC library server](#) 

HIDE LICENSE 

Public notes:

[Obtain username and password](#) 

License Terms

Walk in User Note: Current HKU staff and students only

Concurrent User: 1

Authorized remote access: Current HKU staff and students

Sign in



IEC Library Server

IEC Products & Services Portal
International Electrotechnical Commission

Publications x-ray

Search IEC 62495:2011

1 of 24 Automatic Zoom

CONTENTS
FOREWORD
1 Scope and object
2 Normative references
3 Terms and definitions
4 General requirements
4.1 System description
4.2 Safety considerations
4.3 Other requirements
4.4 Training
5 Portable XRF analysis system requirements
5.1 General

IEC

IEC 62495

Edition 1.0 2011-04

INTERNATIONAL
STANDARD

i

Search



HKU Libraries. (2021). Finding standards databases.
<https://youtu.be/zlGKnMjJFtY?t=1>



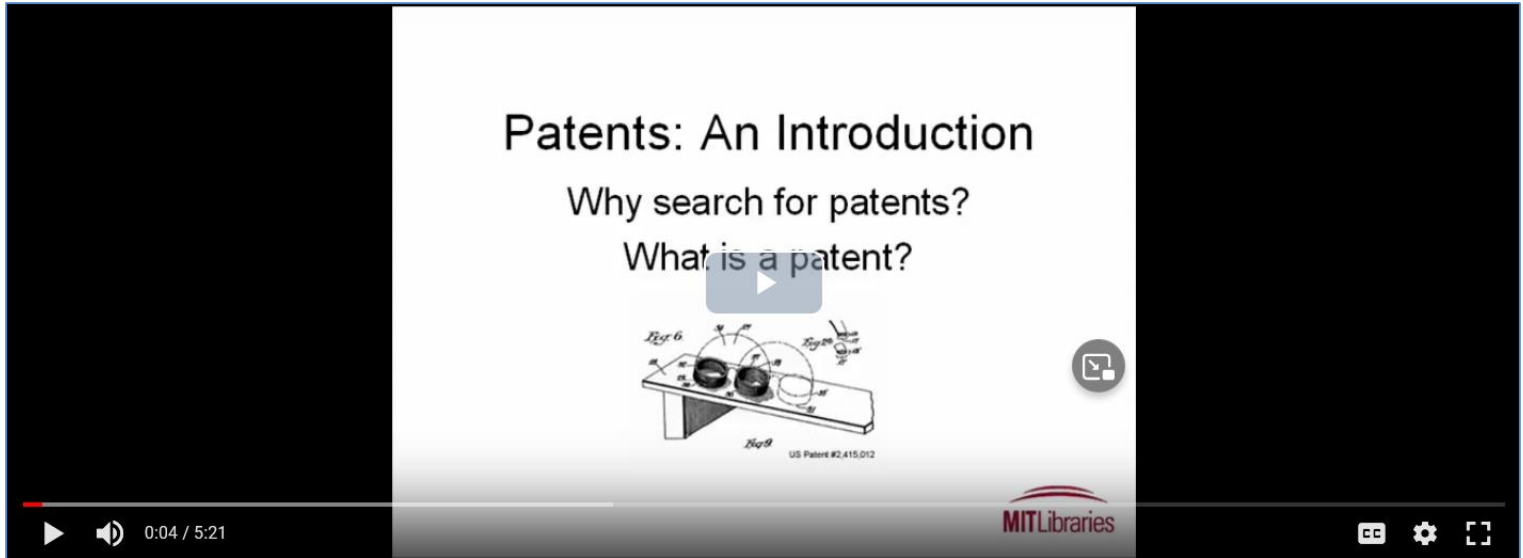
Patents

Patents

- A government grant to an inventor of the right to exclude others from making, using, or selling an invention, usually for a limited period
- for new and useful machines, manufactured products, and industrial processes and for significant improvements of existing ones;
- for new chemical compounds, foods, and medicinal products, the processes used to produce them.
- In some countries, for new forms of plant or animal life developed through genetic engineering.

Why search for patents

- To discover a significant amount of unique and valuable technological information not available except in patents
- To gain a comprehensive overview of a product or technology
- To identify prior art when considering filing a patent application
- To identify patents before making, using or selling a product
- To assess gaps of patent protection in an industry or comparing patent portfolios between competitors



MIT Libraries. (2018). Why search for patents? What is a patent?
 Patent Searching Basics.
<https://techtv.mit.edu/videos/d92431f927fb4af98c9ce7050765afea/>

See a list of popular patents databases in subject guides

<https://libguides.lib.hku.hk/c.php?g=766195&p=5502325#s-lg-box-21715188>

Derwent Innovations Index

http://find.lib.hku.hk/record=HKU_IZ61509955120003414

- 82.8M+ individual patent documents
- from 59 patent issuing authorities
- titles and abstracts written in plain English to aid searching across patents issued in other languages

Derwent Innovations Index

Demonstration

1. Search patents by
International Patent Classification (IPC) code
2. Search patents by
topic



Derwent Innovations Index

International Patent Classification (IPC) system

- dividing all areas of technology into eight sections (A–H)
- the sections subdivided by notations for class, subclass, group and subgroup

Example: An IPC code assigned to an athletic shoe

SECTION A — HUMAN NECESSITIES

A43	FOOTWEAR
A43B	characteristic features of footwear; parts of footwear
A43B 13/00	Soles; Sole and heel units
A43B 13/14	· characterized by the constructive form

IPC code

Derwent Innovations Index

The screenshot displays the Derwent Innovations Index search interface. The main search bar contains the text "Compounds and Methods for the Detection of Hydrogen Peroxide O". A dropdown menu for "International Patent Classification" is open, showing a hierarchical list of sections. The "Add" button next to "F02C GAS-TURBINE PLANTS" is highlighted. The search results list shows "F02D-041/00" with a "REMOVE" button. The "Search" button is highlighted. The "Add to query" button is highlighted. The "IPC code" label is shown in a yellow box.

DOCUMENTS **CITED PATENT SEARCH**

International Patent Classification

Compounds and Methods for the Detection of Hydrogen Peroxide O

> SECTION A - HUMAN NECESSITIES
 > SECTION B - PERFORMING OPERATIONS; TRANSPORTING
 > SECTION C - CHEMISTRY; METALLURGY
 > SECTION D - TEXTILES; PAPER
 > SECTION E - FIXED CONSTRUCTIONS
 > SECTION F - MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
 > F01 MACHINES OR ENGINES IN GENERAL ; ENGINE PLANTS IN GENERAL; STEAM ENGINES
 > F02 COMBUSTION ENGINES ; HOT-GAS OR COMBUSTION-PRODUCT ENGINE PLANTS
 F02B INTERNAL-COMBUSTION PISTON ENGINES;
 COMBUSTION ENGINES IN GENERAL
 F02C GAS-TURBINE PLANTS; AIR INTAKES FOR JET-PROPULSION PLANTS; CONTROLLING FUEL SUPPLY IN AIR-BREATHING JET-PROPULSION PLANTS

F02D-041/00

IPC code

Derwent Innovations Index

Effective keyword search

- exhaustive usage of synonyms, e.g. shoes and footwear
- effective use of [Boolean operators](#)
- appropriate clustering of concepts into discrete search queries
- combining and modifying previous search queries appropriately

Derwent Innovations Index

Search in: **Derwent Innovations Index** ▼

DOCUMENTS
CITED PATENT SEARCH

Topic ▼

"iso e super"
X

⊕ And ▼
Topic ▼
production or manufacturing
X

+ Add row
+ Add date range
Advanced Search

X Clear
Search

Topic

Derwent Innovations Index

Refine results

Subject Areas

^

Assignee Names

^

Assignee Codes

^

Inventors

^

IPC Codes

^

Derwent Class Codes

^

Derwent Manual Codes

^

☐ 0/17,548

Add To Marked List

Export ▾

Sort by: Date: newest first ▾

< 1 of 351 >

☐ 1

System for reducing harmful emissions from internal combustion engine, has controller for activating aftertreatment system heater to heat exhaust gas in response to determining that engine operating condition is not met

WO2021242228-A1

Inventor(s) : [LIGHT-HOLETS J K](#); [KOLHOUSE J S](#); (...); [BRAHMA](#)
 Assignee(s) : [CUMMINS INC](#) and [TULA TECHNOLOGY INC](#)
 Derwent Primary Accession Number :
 2021-D9431E
[Download original](#) ...

☐ 2

Internal combustion engine system for vehicle, has controller which opens recirculation flow control valve to motoring recirculation condition and intake valve to motoring intake condition if motoring condition is determined

WO2021243209-A1; US2021372336-A1

32

Sort & Refine

Derwent Innovations Index

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System for reducing harmful emissions from internal combustion engine, has controller for activating aftertreatment system heater to heat exhaust gas in response to determining that engine operating condition is not met

 Chemical Information

Patent Number: WO2021242228-A1

Inventors: [LIGHT-HOLETS J K](#); [KOLHOUSE J S](#); [NELSON C R](#); [PURI A](#); [SONG X](#); [BRAHM A](#)

Patent Assignees:
[CUMMINS INC\(CUND-C\)](#)
[TULA TECHNOLOGY INC\(TULA-Non-standard\)](#)

Derwent Primary Accession Number: 2021-D9431E

Abstract:
NOVELTY - The system has an aftertreatment system heater (110) coupled to an engine (102). A controller (122) is coupled to the aftertreatment system heater. The controller determines the condition of the exhaust gas from the engine, and compares the condition of the exhaust gas to a predefined threshold. If the condition of the exhaust [Expand to show full abstract](#)

Documentation Abstract: [WO2021242228\(A1\)](#)

Images: 6 ([click to view](#))

International Patent Classification: [F02D-017/00](#) Controlling engines by cutting-out individual cylinders or rendering engines inoperative or idling INFO 7936; [F01N-003/00](#) Exhaust or silencing apparatus

Read & Download

Scopus

http://find.lib.hku.hk/record=HKU_IZ61518360550003414

- 44M+ patent records
- from five patent offices:
 - World Intellectual Property Organization (WIPO)
 - European Patent Office (EPO)
 - US Patent Office (USPTO)
 - Japanese Patent Office (JPO)
 - UK Intellectual Property Office (IPO.GOV.UK)

Scopus

Demonstration

1. Search patents by topic





Scopus

Patents

🔍 Documents 👤 Authors 🏢 Affiliations [Search tips ?](#)

Search within
Article title, Abstract, Keywords

Search documents *
"iso-e-super" (degradation or perishing)

+ Add search field 📅 Add date range [Advanced document search >](#) [Reset](#) [Search Q](#)

Search within results... 🔍

Documents Secondary documents **Patents**

Refine results

Sort on: [Date \(newest\)](#) ▼

Topic

Scopus

Refine results

Limit to Exclude

Year

- ☐ 2021 (50)
- ☐ 2020 (63)
- ☐ 2019 (93)
- ☐ 2018 (91)
- ☐ 2017 (86)

Documents Secondary documents Patents

Sort on: Date (newest)

Show all information

Patent name	Inventor(s)/applicant(s)	Year	Patent office	Patent number
1 JASMOL	SCHULZE, Nicole; FINKE, Anja; PESARO, Manuel(...) (SYMRISE AG)	2021	United States Patent and Trademark Office Pre-Granted Publication	US20210403830

Show more information

Sort & Refine

SciFinder

http://find.lib.hku.hk/record=HKU_IZ61508680780003414

- patents in chemistry
- patent publications from 9 major patenting authorities
- allows Markush structure (generic structure to patent multiple compounds) search

CNKI (China National Knowledge Infrastructure)
中国专利数据库

http://find.lib.hku.hk/record=HKU_IZ61477611320003414

- 38.6M+ patent records
- from 1985



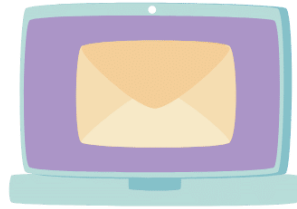
Conclusion

After this session, you should be able to:

- have a basic understanding about standards and patents,
- know various standards and patents databases subscribed by the Libraries, and
- find various standards and patents within some key databases.



Ask a librarian



<https://lib.hku.hk/general/help.html>