

DATABÁZE ESPACENET

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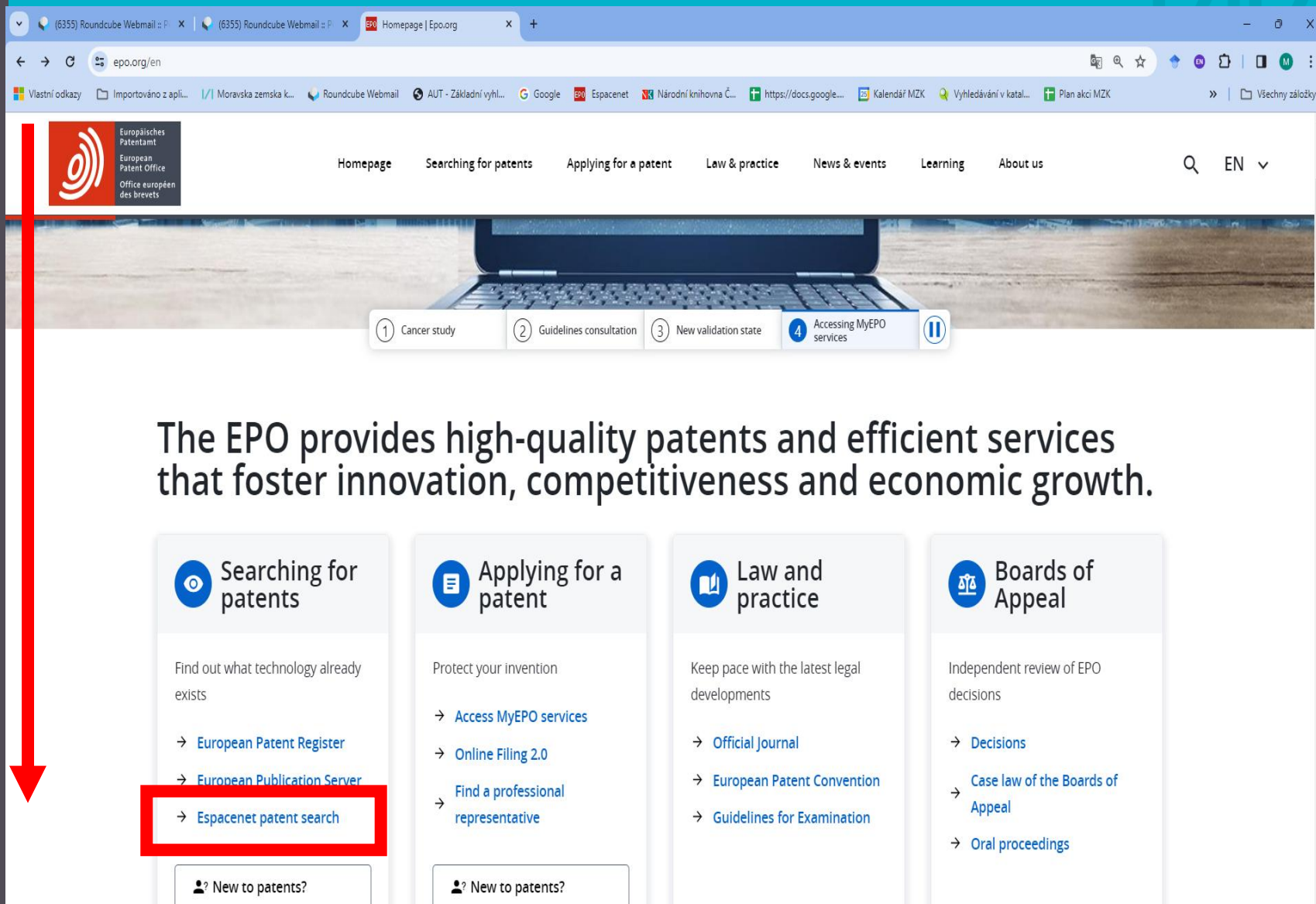
Poslední aktualizace: 20. června 2025

Základní informace

- <https://worldwide.espacenet.com/>
- Databáze obsahuje více než 150 milionů patentových dokumentů z řady zemí.
- Největší volně přístupná patentová databáze.
- Buduje ji Evropský patentový úřad.
<https://www.epo.org/>

Evropský patentový úřad

<https://www.epo.org/>



The screenshot shows the EPO website homepage. A red arrow points from the top left towards the 'Espacenet patent search' link in the 'Searching for patents' section.

Homepage | EPO.org

Navigation menu: [Homepage](#) [Searching for patents](#) [Applying for a patent](#) [Law & practice](#) [News & events](#) [Learning](#) [About us](#)

Search: EN

1 Cancer study 2 Guidelines consultation 3 New validation state 4 Accessing MyEPO services

The EPO provides high-quality patents and efficient services that foster innovation, competitiveness and economic growth.

 Searching for patents	 Applying for a patent	 Law and practice	 Boards of Appeal
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→ European Patent Register	→ Access MyEPO services	→ Official Journal	→ Decisions
→ European Publication Server	→ Online Filing 2.0	→ European Patent Convention	→ Case law of the Boards of Appeal
→ Espacenet patent search	→ Find a professional representative	→ Guidelines for Examination	→ Oral proceedings
? New to patents?	? New to patents?		

Instruktační návody

Kapesní průvodce v angličtině:

[http://documents.epo.org/projects/babylon/eponet.nsf/0/8C12F50E07515DBEC12581B00050BFDA/\\$File/espacenet-pocket-guide_en.pdf](http://documents.epo.org/projects/babylon/eponet.nsf/0/8C12F50E07515DBEC12581B00050BFDA/$File/espacenet-pocket-guide_en.pdf)

Nahrávky z instruktážních webinářů
v angličtině:

Úvod do Espacenetu (únor 2021):

<https://e-courses.epo.org/mod/streaming/view.php?id=9277>

Pokročilé funkce Espacenetu (únor 2021):

<https://e-courses.epo.org/mod/streaming/view.php?id=9278>

Pomůcky

Instruktažní video v angličtině s českými titulky:

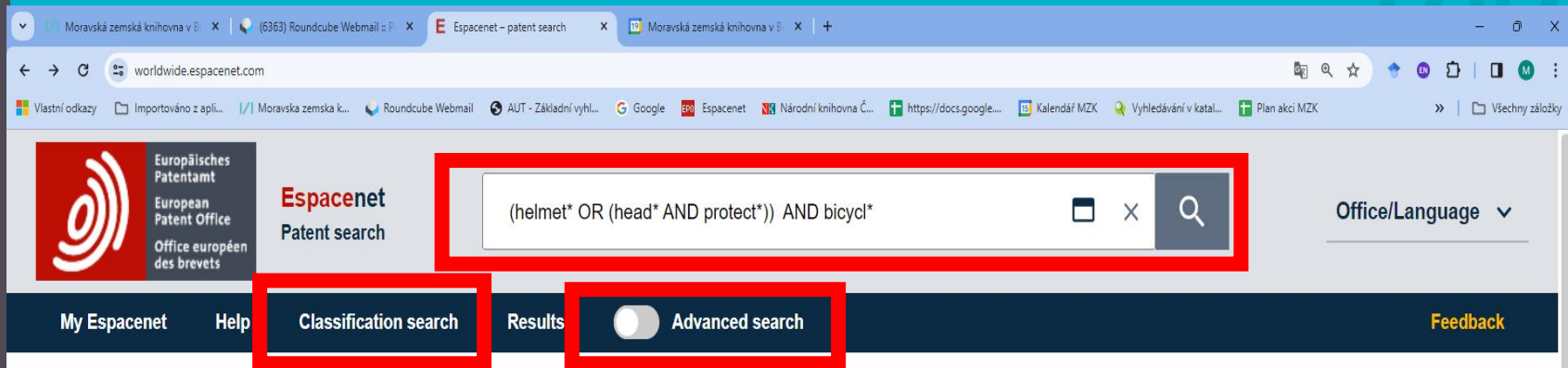
<https://www.youtube.com/watch?v=KLxnB5dqP70>

Jestliže české titulky nenaskočí automaticky, lze v nastavení videa vybrat „titulky“ a pak „čeština“.

Vstup do databáze

<https://www.epo.org/en/searching-for-patents/technical/espacenet>

Vyhledávání



Espacenet: free access to over 150 million patent documents



Espacenet

Vyhledávací možnosti

- Lze používat operátory AND, OR a NOT.
- Náhrady znaků:
 - * neomezená délka,
 - ? 0–1 znak,
 - # 1 znak.

Náhradní znaky nelze používat na začátku slov.

Výsledky

Nastavení zobrazení seznamu

The screenshot shows the Espacenet search results page for the query "(helmet* OR (head* AND protect*)) AND bicycl*". The page displays 121,285 results found. A red box highlights the "List view" settings area, which includes a dropdown menu for "List content" currently set to "All". A secondary dropdown menu is open, showing options to sort by "Relevance", "Priority date" (ascending and descending), and "Publication date" (ascending and descending). The first result is "1. Shell for a protective helmet" (EP1836913A2) by FOX HEAD, with an earliest priority of 2006-03-22 and earliest publication of 2007-09-26. The second result is "2. Reflecting material" (US2007269669A1) by HEADLIGHT HELMETS AB, with an earliest priority of 1998-03-05 and earliest publication of 1999-03-15.

Home > Results

121 285 results found

List view List content

Text only All

Relevance

↓ Priority date

↑ Priority date

↓ Publication date

↑ Publication date

☐ (0 patents selected) Select the first 20 results

☐ 1. Shell for a protective helmet

EP1836913A2 (A3,B1) • 2007-09-26 • FOX HEAD

Earliest priority: 2006-03-22 • Earliest publication: 2007-09-26

Protective structures, such as helmets, and methods for manufacturing them. In other respects, one or more tunnels are formed in or integral to an outer shell for a helmet to provide ventilation, example. In other respects, an impact liner materials, such as EPS,

☐ 2. Reflecting material

US2007269669A1 (B2) • 2007-11-22 • HEADLIGHT HELMETS AB

Earliest priority: 1998-03-05 • Earliest publication: 1999-03-15

A method of manufacturing a retro-reflective shell having a curved or irregular surface for reflecting light in all directions from a laminated product, comprising a substantially flat sheet of a plastic material and a reflective layer on at least one side of said flat sheet

Filtry

Zúžení/zpřesnění dotazu a výsledků

The screenshot shows the Espacenet patent search interface. The search query is `(helmet* OR (head* AND protect*)) AND bicycl*`. The 'Filters' button is highlighted with a red box. A red dashed arrow points from the 'A42B3' filter in the left sidebar to the 'Filters' button. A large red arrow points from the 'A42B3' filter down to the 'Apply' button at the bottom of the sidebar.

Roundcube Webmail :: Napsat x Google x E Espacenet – search results x Nová karta x EPO Patent information tool x +

worldwide.espacenet.com/patent/search?f=ipc_main%3Ain%3DA42B3&q=%28helmet%2A%20OR%20%28head%2A%20AND%20protect%2A%29%29%20AND%20bicycl%2A

Vlastní odkazy Importováno z apli... MZK Moravská zemská k... Roundcube Webmail AUT - Základní vyhl... Google EPO Espacenet Národní knihovna Č... https://docs.google... Kalendář MZK www.lrp.gov.lv/sit... Ostatní záložky Seznam čety

Office/Language

My Espacenet Help Classification search Results Advanced search Filters Popup tips Feedback

Home > Results

Query language: en / de / fr Filters: IPC main groups: A42B3 Clear

Family

Earliest priority date

IPC main groups

↑ ↓

☒ A42B3 3 323

☐ A41D1 24

☐ A41D13 199

☐ A41D19 20

☐ A41D20 16

☐ A41D27 28

☐ A41D3 29

Apply Exclude + query

3 323 results found

List view Text only List content All Sort by Relevance

☐ (0 patents selected) Select the first 20 results

☐ 1. A Helmet
US10791789B2 (A1) • 2020-10-06 • HEADKAYSE LTD
Earliest priority: 2015-07-07 • Earliest publication: 2017-01-12
...A helmet is described, more specifically a helmet comprising a protective shell (10) formed of a flexible expanded polyurethane (EPU) material which defines a cavity for receiving the wearer's head, the shell being foldable, the helmet further comprising a strap (11) arrangement for fastening the shell to the wearer's head

☐ 2. Attachment system for frontal helmet extension to a helmet
AU2011312173A1 (B2) • 2013-05-02 • FOX HEAD INC
Earliest priority: 2010-10-05 • Earliest publication: 2012-04-12
...An attachment system for securing a frontal helmet extension to protective headgear, the attachment system including one or more magnetic elements disposed on the helmet and/or frontal helmet extension and one or more complementary elements disposed on the helmet... to detachably couple the frontal helmet extension to

☐ 3. Reflecting material
US2007269669A1 (B2) • 2007-11-22 • HEADLIGHT HELMETS AB
Earliest priority: 1998-03-05 • Earliest publication: 1999-03-15
A method of manufacturing a retro-reflective shell having a curved or irregular surface for reflecting light in all directions from a laminated product, comprising a substantially flat sheet of a plastic material and a reflective layer on at least one side of said flat sheet plastic material. The reflective layer comprises a transparent

Pokročilé vyhledávání

The screenshot displays the Espacenet patent search results page. The browser's address bar shows the search URL: `worldwide.espacenet.com/patent/search?f=ipc_main%3Ain%3DA42B3&q=%28helmet%2A%20OR%20%28head%2A%20AND%20protect%2A%29%29%20AND%20bicycl%2A`. The search bar contains the query: `(nftxt = "helmet" OR (cbtxt = "head" AND nftxt = "protect")) AND cbtxt = "bicycl"`. The interface includes a navigation bar with "My Espacenet", "Help", "Classification search", "Results", "Advanced search" (highlighted with a red box), "Filters", "Popup tips", and "Feedback". Below the navigation bar, the "Query language" is set to "en / de / fr" and "Filters: IPC main groups: A42B3". The search results section shows "3 323 results found". A red box highlights the "Advanced search" section on the left, which contains a complex Boolean query structure:
 - Top level: "OR" with fields "All text fields or names" and "bicycl*".
 - Inside the "OR" group:
 - Field "All text fields or names" with value "helmet*".
 - Field "AND" with sub-fields:
 - "Title, abstract or claims" with value "head*".
 - Field "All text fields or names" with value "protect*".
 - Bottom level: "Title, abstract or claims" with value "bicycl*".
 The search results list shows the first four results:
 1. **A Helmet** (US10791789B2 (A1) • 2020-10-06 • HEADKAYSE LTD). Description: "...A helmet is described, more specifically a helmet comprising a protective shell (10) formed of a flexible expanded polyurethane (EPU) material which defines a cavity for receiving the wearer's head, the shell being foldable, the helmet further comprising a strap (11) arrangement for fastening the shell to the wearer's head. ...".
 2. **Attachment system for frontal helmet extension to a helmet** (AU2011342473A1 (B2) • 2013-05-02 • FOX HEAD INC). Description: "...An attachment system for securing a frontal helmet extension to protective headgear, the attachment system including one or more magnetic elements disposed on the helmet and/or frontal helmet extension and one or more complementary elements disposed on the helmet ... to detachably couple the frontal helmet extension to the helmet in a position where ...".
 3. **Reflecting material** (US2007269669A1 (B2) • 2007-11-22 • HEADLIGHT HELMETS AB). Description: "A method of manufacturing a retro-reflective shell having a curved or irregular surface for reflecting light in all directions from a laminated product, comprising a substantially flat sheet of a plastic material and a reflective layer on at least one side of said flat sheet plastic material. The reflective layer comprises a transparent adhesive substance and transparent ...".
 4. **Safety helmet** (US2009049586A1 • 2009-02-26 • HEAD GERMANY GMBH).

Možnost výběru polí a operátorů

Pokročilé vyhledávání

Výběr pole

The screenshot shows the Espacenet patent search interface. The search query is `(helmet* OR (head* AND protect*)) AND bicycl*`. The results page shows 122,100 results found. A red box highlights the 'Text fields' dropdown menu on the left, which is open, showing options like 'Title', 'Abstract', 'Description', 'Claims', 'Title or abstract', 'Title, abstract or claims', and 'All text fields'. A red arrow points from the 'Text fields' dropdown to the 'Text only' filter in the results list. Another red arrow points from the 'Text fields' dropdown to the 'Text fields' section of the results list. The results list shows three results, each with a checkbox and a title. The first result is '1. Shell for a protective helmet' by FOX HEAD INC, with earliest priority of 2006-03-22 and earliest publication of 2007-09-22. The second result is '2. Reflecting material' by HEADLIGHT HELMETS AB, with earliest priority of 1998-03-05 and earliest publication of 1999-03-15. The third result is '3. SAFETY HELMET' by HEADLOK PTY LTD, with earliest priority of 2021-06-22 and earliest publication of 2022-12-29.

Worldwide.espacenet.com/patent/search?q=%28helmet%2A%20OR%20%28head%2A%20AND%20protect%2A%29%29%20AND%20bicycl%2A

(helmet* OR (head* AND protect*)) AND bicycl*

Office/Language

My Espacenet Help Classification search Results Advanced search Filters Popup tips Feedback

Home > Results

Query language: en de fr

AND + Field X

All Text fields Names Dates Numbers Classifications Other

or name ^ = v → Group

or names v = v → Group

bicycl* X

122 100 results found

List view List content Sort by

Text only All Relevance

☐ (0 patents selected) Select the first 20 results

☐ 1. Shell for a protective helmet

EP 1630913A2 (A3,B1) • 2007-09-20 • FOX HEAD INC

Earliest priority: 2006-03-22 • Earliest publication: 2007-09-22

Protective structures, such as helmets, and methods for molding the same. In certain respects, one or more tunnels are formed in or integral to an outer shell for a helmet provide ventilation, example. In other respects, an impact liner materials, such as EP

☐ 2. Reflecting material

US2007269669A1 (B2) • 2007-11-22 • HEADLIGHT HELMETS AB

Earliest priority: 1998-03-05 • Earliest publication: 1999-03-15

A method of manufacturing a retro-reflective shell having a curved or irregular surface reflecting light in all directions from a laminated product, comprising a substantially flat sheet of a plastic material and a reflective layer on at least one side of said flat sheet

☐ 3. SAFETY HELMET

WO2022266709A1 • 2022-12-29 • HEADLOK PTY LTD

Earliest priority: 2021-06-22 • Earliest publication: 2022-12-29

The invention relates to a safety helmet which includes a wearable helmet body for protecting a wearer's head and an adjustable strap for securing the helmet body to the

Text fields

Title

Abstract

Description

Claims

Title or abstract

Title, abstract or claims

All text fields

Search Reset

Nastavení seznamu výsledků

The screenshot shows the Espacenet patent search interface. The search query is: (nftxt = "helmet" OR (cbxt = "head" AND nftxt = "protect")) AND cbxt = "bicycl". The results page shows 830 results found. A red box highlights the top of the results list, and a blue box highlights the settings menu icon (three vertical dots) in the top right corner of the results list. A red box on the right contains text about setting the display method, and a blue box at the bottom right contains text about printing or downloading selected results.

Roundcube Webmail :: Napsat x Google x Espacenet - search results x Nová karta x +

worldwide.espacenet.com/patent/search?f=ipc_main%3Ain%3DA42B3&q=%28nftxt%20%3D%20%22helmet%2A%20OR%20%28cbxt%20%3D%20%22head%2A%20AND%20nftxt%20%3D%20%22protect%2A%29%29%20AND%20cbxt%20%3D%20%22bic...

Vlastní odkazy Importováno z apli... MZK / / Moravská zemská k... Roundcube Webmail AUT - Základní vyhl... Google Espacenet Národní knihovna Č... https://docs.google... Kalendář MZK www.lrpv.gov.lv/sit... » Ostatní záložky Seznam čteny

Office/Language

My Espacenet Help Classification search Results Advanced search Filters Popup tips Feedback

Home > Results

Query language: en / de / fr Filters: IPC main groups: A42B3 x Clear

Query language: en de fr

AND + Field

OR + Field X

All text fields or names = -> Group

helmet*

AND + Field X

Title, abstract or claims = -> Group

head*

All text fields or names = -> Group

protect*

Title, abstract or claims = -> Group

bicycl*

830 results found

List content All Sort by Relevance

Text only 0 results

Text and thumbnails 0 results

Compact list 0 results

Drawings only 0 results

1. BELL SPORTS INC [US]
Earliest priority: 2012-04-06 • Earliest publication: 2013-10-10
...A bicycle helmet for protecting the head of a wearer includes an outer shell and an energy dissipating inner layer... for supporting the helmet upon the head of the wearer. The internal ventilation system provides a gap between the head of the wearer and the inner surface. The gap allows ventilating air to flow over a substantial extent of the wearer's head and

2. Head protector used for bicycle
CN108236158A • 2018-07-03 • TIANJIN FENGKAI TECH CO LTD
Earliest priority: 2016-12-26 • Earliest publication: 2018-07-03
...The invention discloses a head protector used for a bicycle. The head protector used for a bicycle comprises a helmet body, wherein a solar panel is arranged at the top end of the outside of the helmet body, air outlets... is prevented from disturbance, and thus improving the riding safety and meeting the requirement of riders of the modern society on helmets

3. Bicycle intelligence head protective equipment that adaptation head form changes
CN207870376U • 2018-09-18 • CHENGDU YIZHONGLI NETWORK TECH CO LTD
Earliest priority: 2018-01-03 • Earliest publication: 2018-09-18
...The utility model discloses a bicycle intelligence head protective equipment that adaptation head form changes, including helmet shell body, helmet... for below 13 of helmet shell body surface area, surface cover at helmet shell body has outer protecting film, be... worn, avoids the helmet and head form improper and lead to the not hard up phenomena

4. Head type self-adaptive bicycle helmet
CN213695885U • 2021-07-16 • NANJING CHUQING ELECTRONIC TECH CO LTD

Možnost nastavení:

- způsob zobrazení výsledků,
- zobrazení všech nebo vybraných výsledků,
- pořadí výsledků.

Tisk či download vybraných výsledků.

Search Reset

Stahování či tisk výsledků

The screenshot shows the Espacenet patent search results page. The search query is "(nftxt = "helmet" OR (cbtxt = "head" AND nftxt = "protect")) AND cbtxt = "bicycle"". The results page shows 830 results found. The first three results are listed, each with a checkbox, a title, a patent number, a date, and an applicant. A red box highlights a download menu that appears over the first result. The menu options are: Download, List (xlsx), List (csv), Front pages (pdf), Print, Add selection to My patents, and Share this query.

Home > Results

Query language: en / de / fr Filters: IPC main groups: A42B3 x Clear

830 results found

List view Text only List content All Sort by Relevance

☒ (2 patents selected) Select the first 20 results

☒ 1. PROTECTIVE BICYCLE HELMET WITH INTERNAL VENTILATION SYSTEM
WO2013152322A1 • 2013-10-10 • BELL SPORTS INC [US]
Earliest priority: 2012-04-06 • Earliest publication: 2013-10-10
...A bicycle helmet for protecting the head of a wearer includes an outer shell and an energy dissipating inner layer... for supporting the helmet wearer. The internal ventilation system provides a gap between the head of the wearer and the inner surface. The gap allows ventilating air to extent of the wearer's head and within the helmet ...

☐ 2. Head protector used for bicycle
CN108236158A • 2018-07-03 • TIANJIN FENGKAI TECH CO LTD
Earliest priority: 2016-12-26 • Earliest publication: 2018-07-03
...The invention discloses a head protector used for a bicycle. The head protector used for a bicycle comprises a helmet body, wherein a solar panel is arranged at the top end of the outside of the helmet body, air outlets... is prevented from disturbance, and thus improving the riding safety and meeting the requirement of riders of the modern society on helmets of the bicycle. ...

☒ 3. Bicycle intelligence head protective equipment that adaptation head form changes
CN207870376U • 2018-09-18 • CHENGDU YIZHONGLI NETWORK TECH CO LTD
Earliest priority: 2018-01-03 • Earliest publication: 2018-09-18
...The utility model discloses a bicycle intelligence head protective equipment that adaptation head form changes, including helmet shell body, helmet... for below 13 of helmet shell body surface area, surface cover at helmet shell body has outer protecting film, be... worn, avoids the helmet and head form improper and lead to the not hard up phenomenon of the helmet to ...

☐ 4. Head type self-adaptive bicycle helmet
CN213695885U • 2021-07-16 • NANJING CHUQUING ELECTRONIC TECH CO LTD

Download Menu

- Download
- List (xlsx)
- List (csv)
- Front pages (pdf)
- Print
- Add selection to My patents
- Share this query

My Espacenet

The screenshot shows the 'My Espacenet' interface in a web browser. The browser's address bar displays 'worldwide.espacenet.com/patent/my-espacenet'. The search bar contains the query 'in all "Vi#tor Kaplan" AND num any "CS AT" AND cbxt any "turbine"'. The navigation bar includes links for 'My Espacenet', 'Help', 'Classification search', 'Results', and 'Popup tips'. Below the navigation bar, there are tabs for 'My patents', 'My queries', and 'My settings', with 'My queries' being the active tab. A table lists the saved queries with columns for 'Query', 'Filters', 'Languages', 'Date', 'Results found', and 'Actions'.

Query	Filters	Languages	Date	Results found	Actions
in all "Vi#tor Kaplan" AND (num any "CS" OR ap any "AT")		en:de:fr	2021-10-04 13:57:34	45	▶ 🗑
ia all "Vi#tor Kaplan" AND cbxt all "turbine"		en:de:fr	2021-10-04 13:53:08	43	▶ 🗑
(helmet* OR (head* AND protect*)) AND bicycl*		en:de:fr	2021-10-04 12:33:04	94 362	▶ 🗑
helmet* AND bicycl*		en:de:fr	2021-10-04 11:14:25	12 203	▶ 🗑
helmet* AND bicycle*		en:de:fr	2021-10-04 11:12:01	10 856	▶ 🗑
seat* AND (portable OR movable)		en:de:fr	2021-10-04 11:08:27	1 941 895	▶ 🗑
(pet* OR dog*) AND umbrella*		en:de:fr	2021-10-04 11:05:02	34 062	▶ 🗑
(pet* OR animal* OR dog* OR cat*) AND umbrella*			2021-10-04 11:04:28	0	▶ 🗑
(pet* OR animal* OR dog* OR cat*) AND umbrella* AND A01K13*			2021-10-04 11:03:39	0	▶ 🗑
(pet* OR animal* OR dog			2021-10-04 11:02:24	0	

V osobní schránce My Espacenet lze:

- nastavit osobní preference,
- ukládat vybrané záznamy,
- najít historii dotazů.

Ukládání výsledků do osobní schránky

The screenshot shows the Espacenet patent search results page. The search query is "(helmet* OR (head* AND protect*)) AND bicycl*". The page displays 121,235 results found. A red arrow points from the "My Espacenet" button in the top navigation bar to the "Add selection to My patents" option in the context menu. Another red arrow points from the "Add selection to My patents" option to the first search result, "1. Shell for a protective helmet".

Home > Results

121 235 results found

List view: Text only | List content: All | Sort by: Relevance

☒ (3 patents selected) Select the first 20 results

☒ 1. Shell for a protective helmet
EP1836913A2 (A3,B1) • 2007-09-26 • FOX HEAD INC
Earliest priority: 2006-03-22 • Earliest publication: 2007-09-22
Protective structures, such as helmets, and methods for molding the same. In certain respects, one or more tunnels are formed in or integral to an outer shell for a helmet to provide ventilation, example. In other respects, an impact liner materials, such as EPS, may be directly in-molded to shells suitable for use in motorcycle helmets and other helmets ...

☒ 2. Reflecting material
US2007269669A1 (B2) • 2007-11-22 • HEADLIGHT HELMETS AB
Earliest priority: 1998-03-05 • Earliest publication: 1999-03-15
A method of manufacturing a retro-reflective shell having a curved or irregular surface for reflecting light in all directions from a laminated product, comprising a substantially flat sheet of a plastic material and a reflective layer on at least one side of said flat sheet plastic material. The reflective layer comprises a transparent adhesive substance and transparent glass or plastic pearls with a diameter between 0.01 and 0.05 mm. The substance

☒ 3. SAFETY HELMET
WO2022266709A1 • 2022-12-29 • HEADLOK PTY LTD
Earliest priority: 2021-06-22 • Earliest publication: 2022-12-29
The invention relates to a safety helmet which includes a wearable helmet body for protecting a wearer's head and an adjustable strap for securing the helmet body to the wearer's head. The helmet further includes a locking arrangement integrated with the helmet body and a locking member comprising

Menu

- Download
- Print
- Add selection to My patents
- Share this query

Hledání podle Cooperative Patent Classification (CPC)

worldwide.espacenet.com/patent/cpc-browser#!/CPC=/
Espacenet Patent search
Enter your search terms
Office/Language

My Espacenet Help Classification search Results Feedback

Classification search

Use this page to find CPC symbol meanings or search relevant symbols by keywords in the worldwide bibliographic database. Espacenet will list the most frequent ones at main group level.

helmet* Search Index A B C D E F G H Y

Classification and description Symbol

HUMAN NECESSITIES	S	A
PERFORMING OPERATIONS; TRANSPORTING	S i	B
CHEMISTRY; METALLURGY	S i	C
TEXTILES; PAPER	S	D
FIXED CONSTRUCTIONS	S	E
MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING	S i	F
PHYSICS	S i	G
ELECTRICITY	S i	H
GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS	S i	Y

Selected classifications

Find patents

Try also the AI-based CPC Text Categoriser

S třídíkem lze pracovat takto:

- Zadat klíčové slovo a objeví se nabídka třídíků.
- Zadat notaci/třídíků.
- Postupně rozklikávat hierarchii třídíků.

Hledání podle CPC

Worldwide Espacenet patent classification browser interface showing search results for CPC symbol A63C 17/045.

Search Bar: Enter your search terms

Navigation: My Espacenet, Help, Classification search, Results, Feedback

Classification search

Use this page to find CPC symbol meanings or search relevant symbols by keywords in the worldwide bibliographic database. Espacenet will list the most frequent ones at main group level.

Search Bar: Enter a keyword or a classification symbol

Search

Index: A B C D E F G H Y

« A63C13/00 A63C19/00 »

Classification and description

- [Ice skateboards]
- with wheels arranged in two pairs [(for skateboards **A63C 17/015**)]
- with wheels arranged otherwise than in two pairs [(for skateboards **A63C 17/014**)]
- [Roller skis]
- single-track type
- [with relative movement of sub-parts on the chassis]
- [with a pivotal frame or cradle around transversal axis for relative movements of the wheels]
- [comprising steered wheels, i.e. wheels supported on a vertical axis]

Symbol

- A63C 17/018 ☐
- A63C 17/02 ☐
- A63C 17/04 ☐
- A63C 17/045 ☒**
- A63C 17/06 ☐
- A63C 17/061 ☐
- A63C 17/062 ☐
- A63C 17/064 ☐

Selected classifications

A63C17/045/low

Clear

Find patents

Try also the AI-based **CPC Text Categoriser**

Stažení záznamů ve formátu xlsx

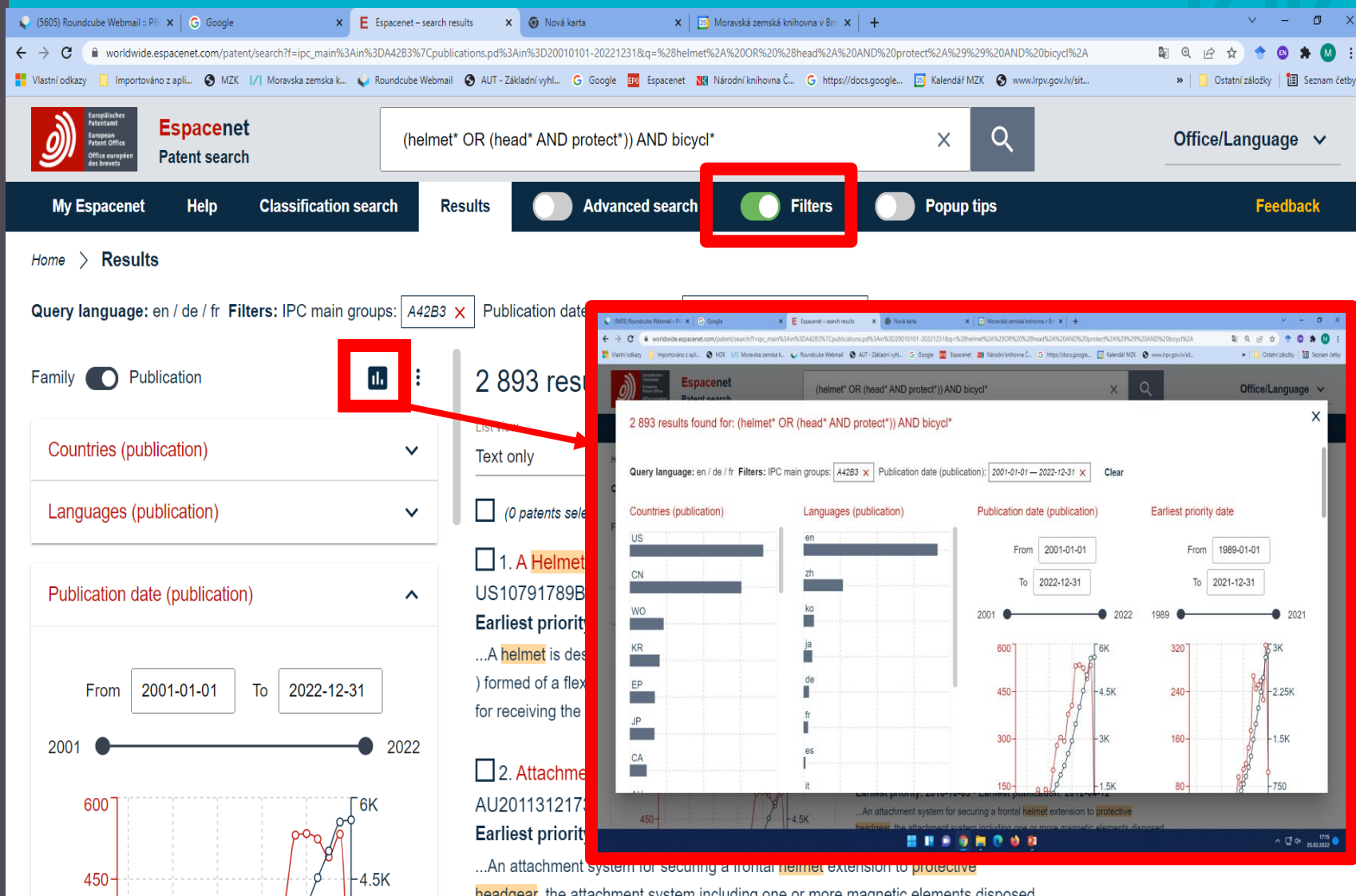
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Statistické analýzy patentů pomocí filtrů

The screenshot displays the Espacenet patent search results page. The search query is `cpc = "A42B3/00/low" AND ctxt = "bicycle*"`. The interface includes a navigation bar with options like 'My Espacenet', 'Help', 'Classification search', 'Results', 'Advanced search', 'Filters', 'Popup tips', and 'Feedback'. The 'Filters' button is highlighted with a red box. On the left, there are filters for 'Family' and 'Publication'. The 'Download' button is also highlighted with a red box. Below the search results, there is a table with columns for 'Countries (publication)' and 'Number of documents'. The table lists various countries and their corresponding document counts.

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CN	111
WO	99
KR	86
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IT	4
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Záznam patentového dokumentu

Browser tabs: Moravská zemská, Nová karta, Kontakty | Moravská, Nová karta, E Espacenet - search, Moravská zemská, E Espacenet - patenti, EPO - Espacenet: p

Address bar: worldwide.espacenet.com/patent/search/family/064664646/publication/EP3498120A1?q=pn%3DEP3498120A1

Search bar: pn=EP3498120A1

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Breadcrumbs: Home > Results > EP3498120A1

1. >

☆ **EP3498120A1** BICYCLE HELMET WITH VENTILATION PLATE

Bibliographic data | Description | Claims | Drawings | Original document | Citations | Legal events | Patent family

Register ↗ Global Dossier ↗

Applicants SPECIALIZED BICYCLE COMPONENTS INC [US] +

Inventors GOSSEEN NICHOLAS REID [US]; KRYNOCK MICHAEL JOSEPH [US]; OKAMURA ALAN [US] +

Classifications

IPC **A42B3/06; A42B3/28;**

CPC **A42B3/0493 (US); A42B3/06 (US); A42B3/066 (EP,US); A42B3/28 (EP,CN,US); A42B3/283 (CN,US);**

Priorities US201762599565P-2017-12-15

Application EP18211541A-2018-12-11

Publication EP3498120A1-2019-06-19

Published as CN109998215A; EP3498120A1; US2019183203A1

EN DE FR

BICYCLE HELMET WITH VENTILATION PLATE

Abstract

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Front-page drawing from EP3498120A1

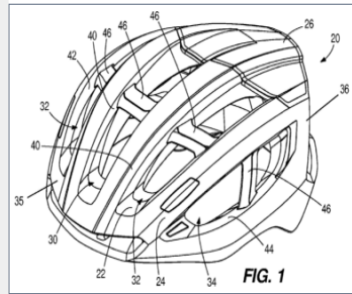
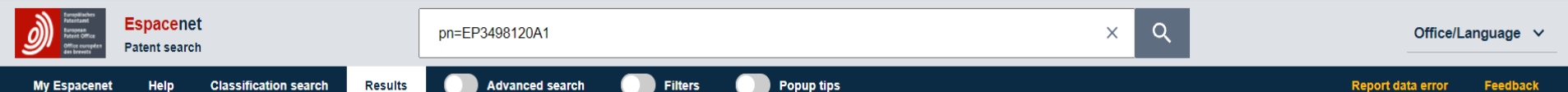
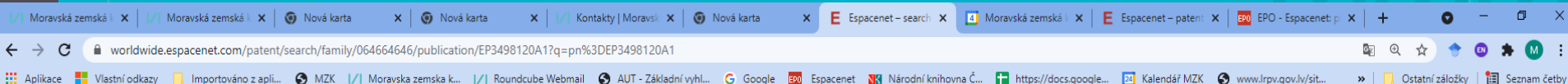


FIG. 1

Strojový překlad



Home > Results > EP3498120A1

1. >

☆ EP3498120A1 BICYCLE HELMET WITH VENTILATION PLATE

Bibliographic data **Description** Claims Drawings Original document Citations Legal events Patent family

Register ↗ Global Dossier ↗

Data originating from sources other than the EPO may not be accurate, complete, or up to date.

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims priority to U.S. Provisional Application No. 62/599,565, filed December 15, 2017.

BACKGROUND

[0002] The present invention relates generally to the field of bicycle helmets and specifically to bicycle helmets designed for improved ventilation.

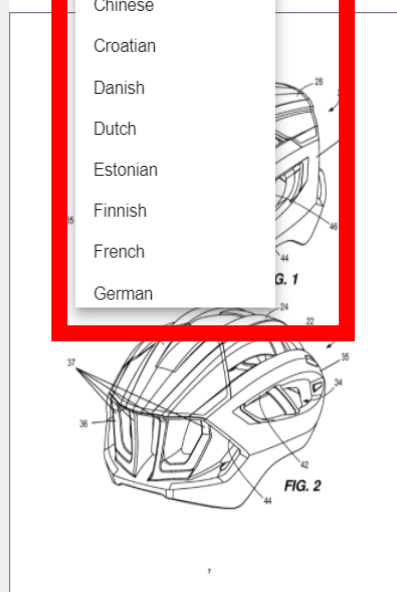
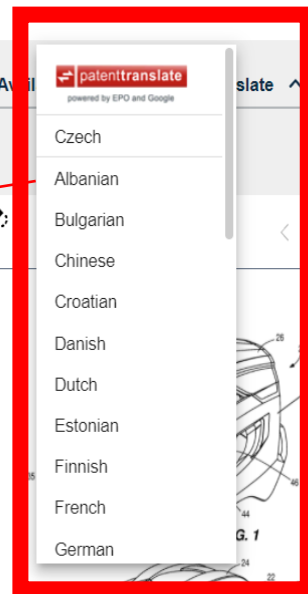
[0003] Bicycle helmets are designed to protect a user's head in the event of an accident. Bicycle helmets typically include a thick liner of expanded polystyrene (EPS) covered with a thin shell of a hard plastic material, such as lexan, polycarbonate, or acrylonitrile butadiene styrene (ABS).

[0004] In order to increase a user's comfort when riding a bicycle, bicycle helmets may be designed to be lightweight and/or to have ventilation so that the user's head is cooled while riding. For example, ventilation may include inlet ventilation ports on the front of the bicycle helmet and outlet ventilation ports on the rear of the bicycle helmet, thereby facilitating the flow of air through the bicycle helmet. As bicycle helmet design has evolved, ventilation ports have generally become larger and more numerous in order to increase the amount of air flowing through the helmet.

[0005] As the size of ventilation ports have increased, reinforcing struts have been added to enhance the strength of the bicycle helmet. These struts can extend laterally across the ventilation ports in order to provide strength to the underlying liner. Struts can be made of a variety of materials, such as plastic mesh or plastic strip, and the struts are often covered with a layer of EPS.

BRIEF DESCRIPTION OF THE DRAWINGS

[0006]



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