



**KnowING IPR project
Fostering Innovation in the Danube Region
through Knowledge Engineering and IPR
Management**

Output 4.1 KnowING HUB web portal

Project co-funded by European Union funds (ERDF, IPA, ENI)
[Http://www.interreg-danube.eu/approved-projects/knowing-ipr](http://www.interreg-danube.eu/approved-projects/knowing-ipr)

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Introduction – KnowiNG HUB online web portal

The following document “Output 4.1. KnowiNG HUB online web portal” describes the main elements of the online web application as divided into two parts. *First part* describes the technical potential of the queries, in terms of emphasizing the strongest and most sophisticated part of the platform – the queries potentials. *The second part offers* very brief overview of why the KnowiNG HUB solution is more elaborated than compared solutions around the world.

The KnowiNG HUB platform can be accessed at: <https://knowing-ipr.fis.unm.si/>

The Output feeds from the deliverables of the Activity A4.1 (UxD activities), and Activity 4.2 (Development activities). The present Output 4.1. can serve as guiding document on the potentials of KnowiNG HUB and can serve participants of the KnowiNG HUB initiative to have a full guidance through the potentials of KnowiNG HUB.

KnowiNG HUB represents a transnational platform, providing online access to enriched data and supporting information for an efficient innovation processes supported by tools for an efficient IPR management. This collaborative online platform links providers of enriched data and information relevant for innovations, business and innovation support organizations and enterprises (especially SMEs and HEI&RI) from the Danube region.

KnowiNG HUB web portal and contribution to EUSDR

The featured Output contributes to PO2 of the DTP (number of tools for improving the institutional and infrastructural framework conditions for research and innovation), and more importantly it contributes to three Priority areas of the EUSDR.

Firstly, it contributes to PA7 since it provides access to patent data and provides knowledge on how to understand patent data. Additionally, it raises awareness on importance of IP, contributing to one of the key PA7 targets (to increase number of EPO and PCT patent applications in the Danube region). The Output and activity targets also PA9 targets in contributing improved educational outcomes, in the fields of innovation and entrepreneurship. Most importantly, the Outcome also contributes to PA8, due to support to enterprises through high performing training and is improving framework conditions for SMEs in areas where competitive infrastructure is missing.

Query services of web platform

How to start the query? - Help

Prior to starting any query a quick 'help' button is available at the right side of the query bar.



Photo 1: Basic search through patents

Basic search through patents

Basic search is available from the landing page of the KnowING HUB website.



Photo2: Basic search through patents

The most basic action/functionality every user (anonymous or registered) can perform is submitting a search query to the Knowledge Generation Core and retrieving information about it.

Technically, the Web application prepares a query in a JSON format, sends it to the Knowledge Generation Core, and retrieves the information (the report), which is generated by the Report Generation Module, again in a JSON format.

Basic search through publications



Photo 3: Basic search through publications

Basic search through patents and publications simultaneously



Photo 4: Basic search through all



Photo 5: Basic search possibilities

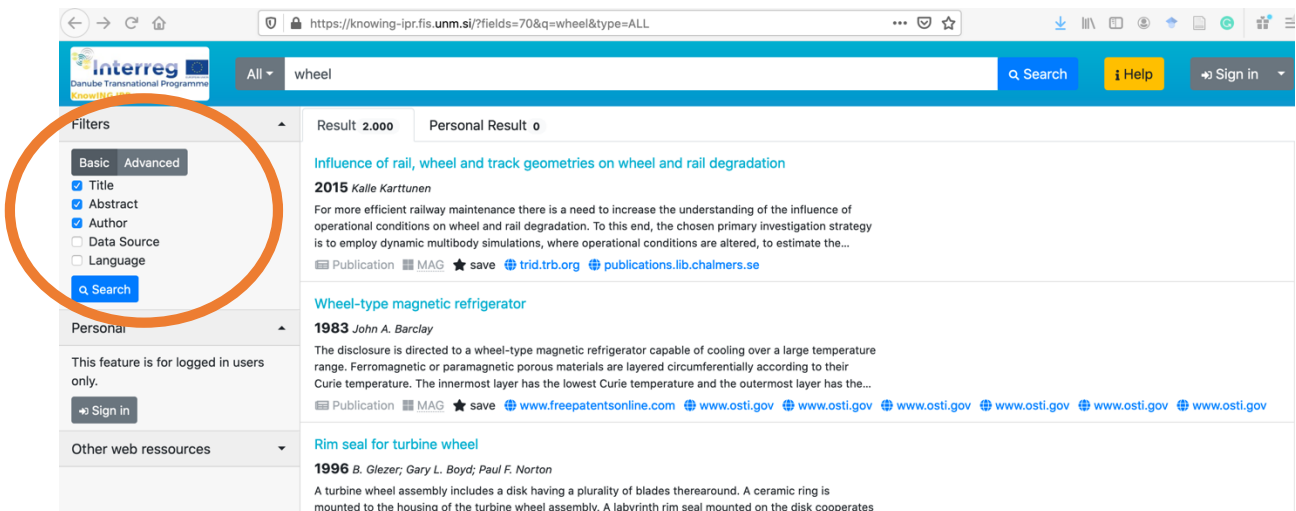
Structured query

For basic users

Structured queries are offering three filters that enable retrieving and analysing information. Two are available for online users, where the second one is available for offline users. Among those available for online users the first one offers the following filters for query for basic users:

- Title
- Abstract
- Author
- Data source
- Language
-

The filters can be elected either individually on all together in different constellations.



The screenshot shows a web browser window with the URL <https://knowing-ipr.fis.unm.si/?fields=70&q=wheel&type=ALL>. The search results page displays the following information:

- Search Bar:** Contains the text "wheel".
- Filters:** A sidebar on the left with a "Basic" tab selected. Under "Basic", the following filters are checked:
 - Title
 - Abstract
 - Author
 - Data Source
 - Language
- Search Results:**
 - Result 2.000** (Total results)
 - Personal Result 0** (Personalized results)
 - 1st Result:** "Influence of rail, wheel and track geometries on wheel and rail degradation" (2015) by Kalle Karttunen. Description: "For more efficient railway maintenance there is a need to increase the understanding of the influence of operational conditions on wheel and rail degradation. To this end, the chosen primary investigation strategy is to employ dynamic multibody simulations, where operational conditions are altered, to estimate the..."
 - 2nd Result:** "Wheel-type magnetic refrigerator" (1983) by John A. Barclay. Description: "The disclosure is directed to a wheel-type magnetic refrigerator capable of cooling over a large temperature range. Ferromagnetic or paramagnetic porous materials are layered circumferentially according to their Curie temperature. The innermost layer has the lowest Curie temperature and the outermost layer has the..."
 - 3rd Result:** "Rim seal for turbine wheel" (1996) by B. Glezer, Gary L. Boyd, Paul F. Norton. Description: "A turbine wheel assembly includes a disk having a plurality of blades therearound. A ceramic ring is mounted to the housing of the turbine wheel assembly. A labyrinth rim seal mounted on the disk cooperates..."

Photo 6: Filtering for Basic search

For advanced users

Structured queries for advanced users are offering queries with two operators of Boolean algebra: AND and OR. Advanced users can browse different combinations using AND and OR and selecting different key words in the below listed filters

- Title: *insert keyword*

AND/OR

- Abstract: *insert keyword*

AND/OR

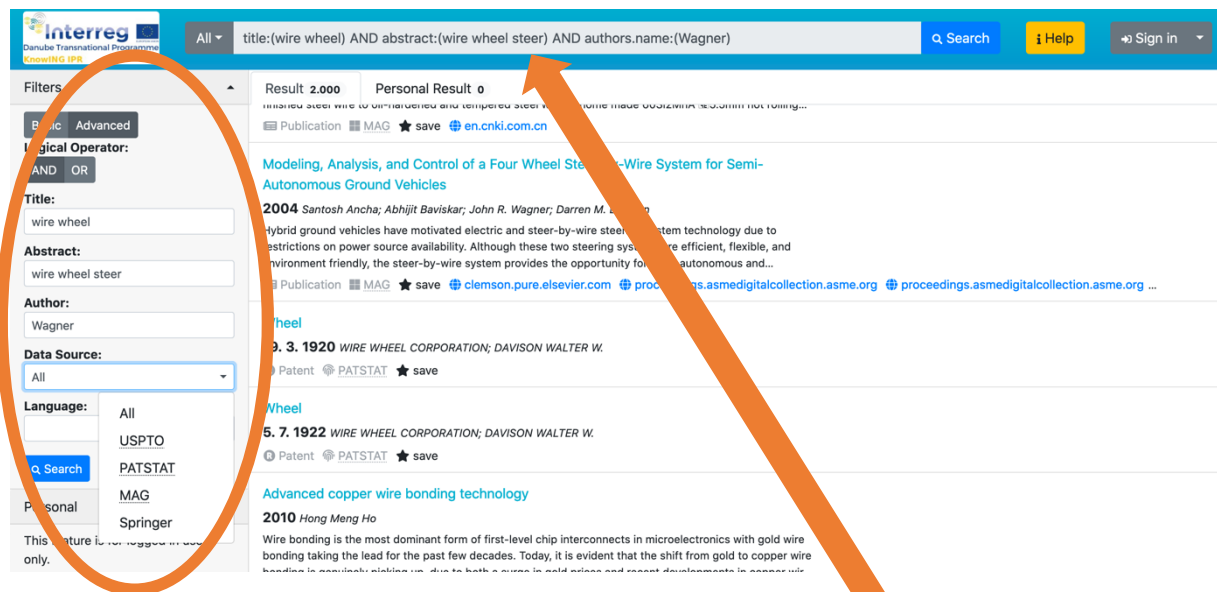
- Author: *insert keyword*

AND/OR

- Data source: *all, USPTO, PATSTAT, MAG, Springer*

AND/OR

- Language: *insert keyword*



The screenshot shows the Interreg search interface. The search bar contains the query: `title:(wire wheel) AND abstract:(wire wheel steer) AND authors.name:(Wagner)`. The search results show 2,000 results. The filters section on the left is highlighted with an orange circle and includes the following options:

- Basic / Advanced
- Logical Operator: AND / OR
- Title: wire wheel
- Abstract: wire wheel steer
- Author: Wagner
- Data Source: All
- Language: All, USPTO, PATSTAT, MAG, Springer

The search results list several publications, including:

- Modeling, Analysis, and Control of a Four Wheel Steer-by-Wire System for Semi-Autonomous Ground Vehicles (2004) by Santosh Ancha, Abhijit Baviskar, John R. Wagner, Darren M. ...
- 3. 1920 WIRE WHEEL CORPORATION; DAIVSON WALTER W. (Patent)
- 5. 7. 1922 WIRE WHEEL CORPORATION; DAIVSON WALTER W. (Patent)
- Advanced copper wire bonding technology (2010) by Hong Meng Ho

Photo7: Query for Advanced search

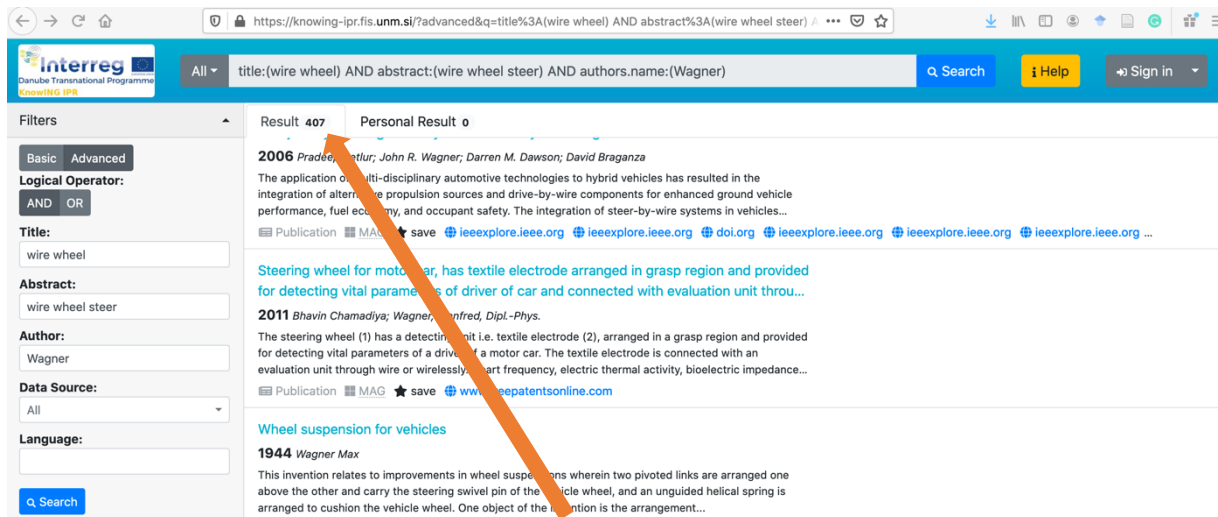


Photo 8: Query for Advanced search, reduced number of hits

Similar to other common search engines, the Web application allows users to construct *advanced queries*. By advanced queries we mean queries comprised of simple queries combined with Boolean operators *AND*, *OR*, and *NOT*, together with eventual *filtering information*. Filtering is performed on the Knowledge Generation Core side, and the user applications only send the data about it. The fields by which a query results can be filtered will be determined during the development process. There are different types of filters: excluding/including a specific field, limiting the field value by some values (e.g. the year field by min and max year, etc.), allowing also for truncation of search query words.

Search Results of Basic and Advanced search

The result of a query is the *report*, which represents a collection of information gathered by the Knowledge Generation Core. The report is comprised of two parts: a short text (*abstract* or *summary*) with basic information found for the given query, and a collection of (enriched) documents related to the given query (the *result set*). Each of the documents in the result set is called a *response*. A response can be a metadata about a single patent document, a (scientific) publication, or some other document type. In this sense, responses are divided into categories (patents, publications, other), so that visual representation of documents of different types can be adjusted accordingly. For instance, when a patent document is shown in a web page, it will contain a field priority, which will not be present in scientific publications.

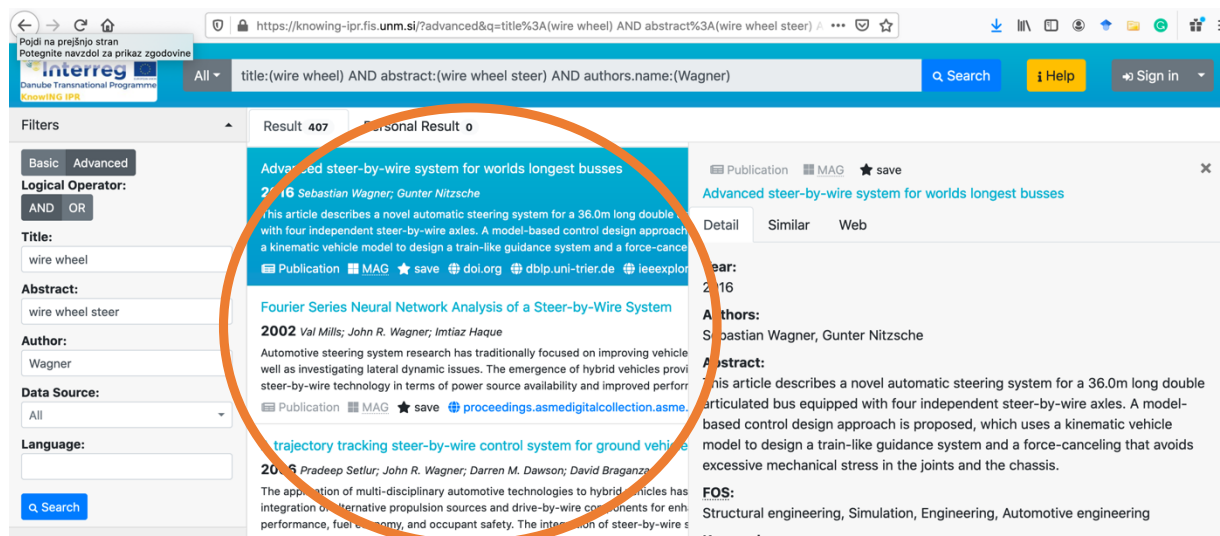


Photo 9: Display of results, report set

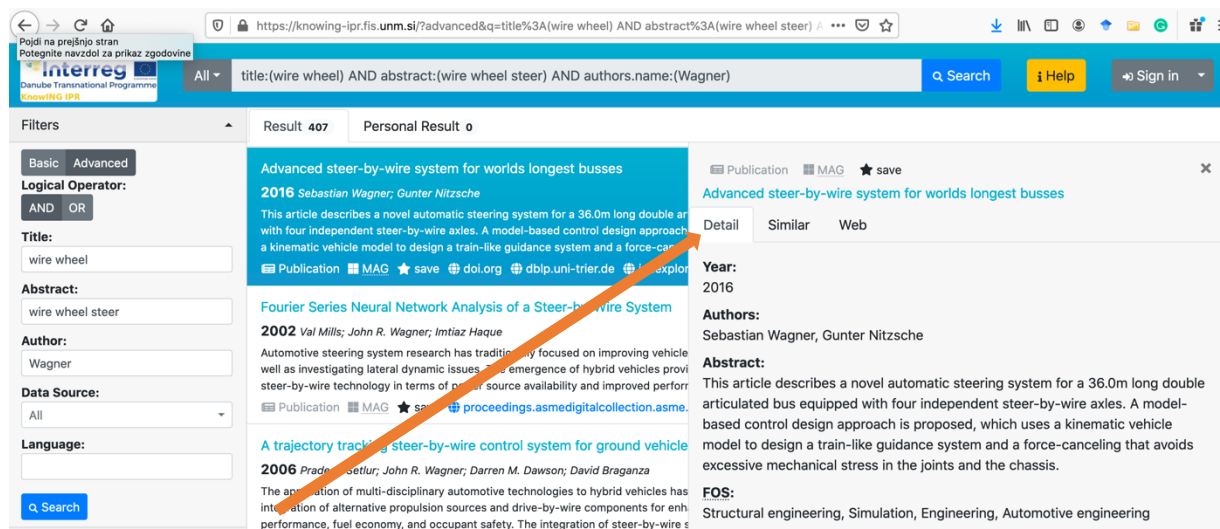
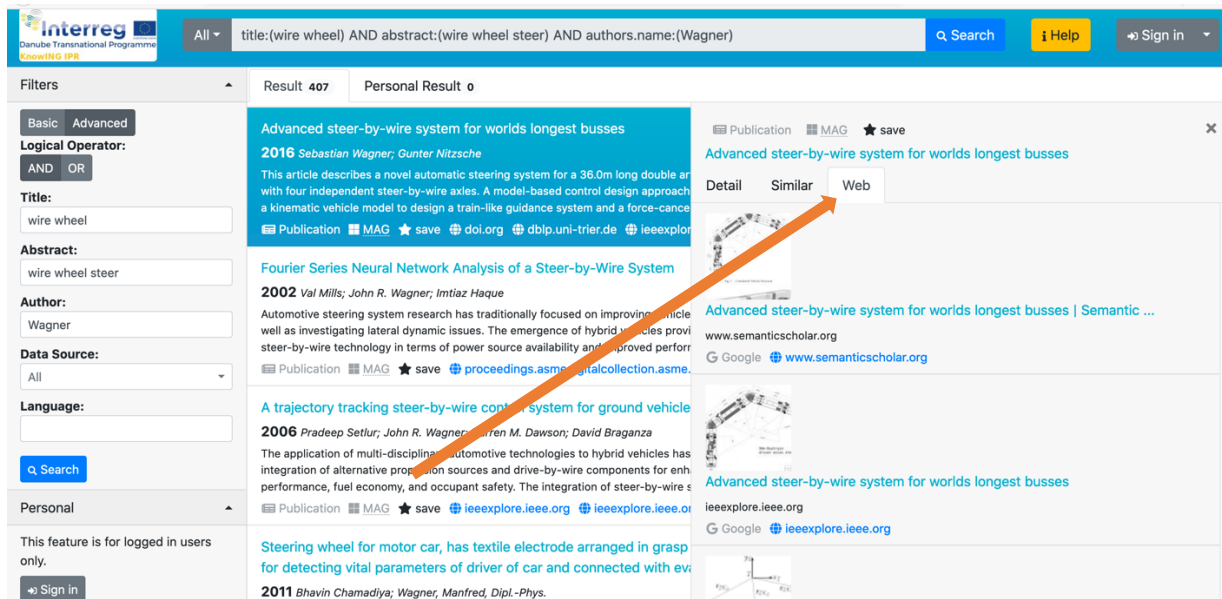


Photo 10: Display of results, detail



The screenshot shows the Interreg search interface. The search bar contains the query: `title:(wire wheel) AND abstract:(wire wheel steer) AND authors.name:(Wagner)`. The search results are displayed in a list format. The left sidebar contains filters for Logical Operator (AND/OR), Title, Abstract, Author, Data Source, and Language. The main content area shows search results for 'Advanced steer-by-wire system for worlds longest busses' (2016) and 'Fourier Series Neural Network Analysis of a Steer-by-Wire System' (2002). The right sidebar shows a detailed view of the top result, with tabs for 'Detail', 'Similar', and 'Web'. An orange arrow points from the search results to the 'Web' tab in the detailed view.

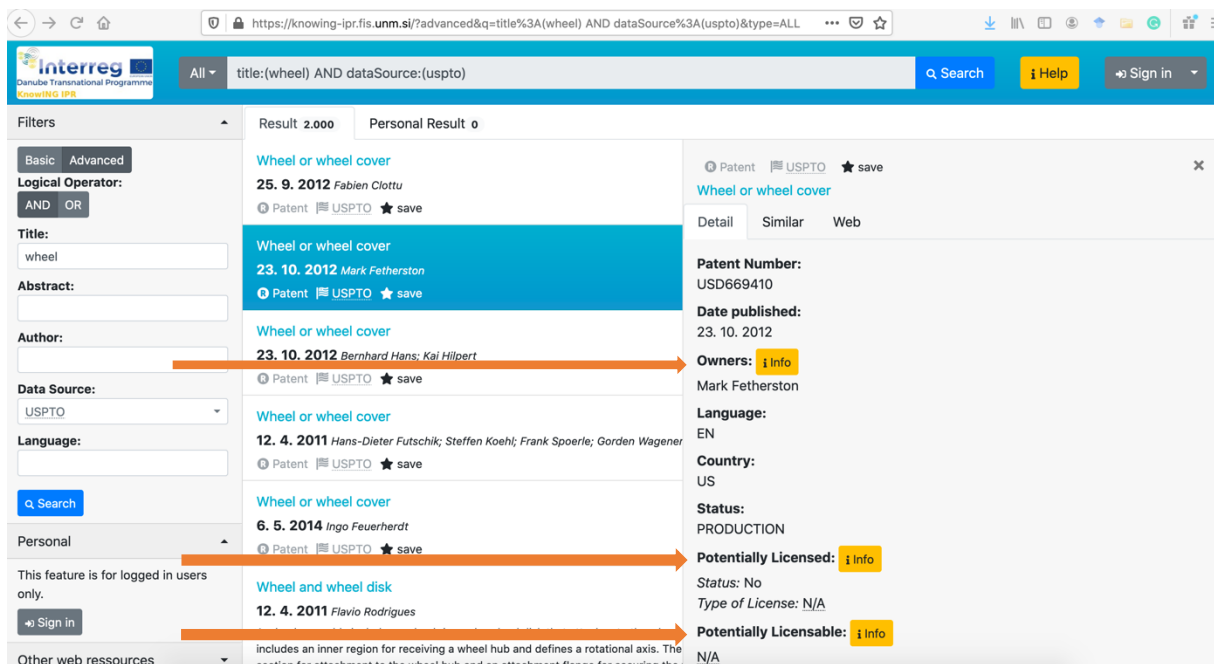
Photo 11: Display of results, web results

The content of a report for a given query is presented to a user on a web page. In particular, there is a frame for the summary and a frame for the list of responses (which are grouped by categories, e.g. patent documents together). Clicking each of the responses presents details about the response in another frame. If a response contains links to related responses, these links redirect the user to the details of those. If a response contains external links, these are also clickable and details open a new window with the given URL.

Retrieving patent information

While querying the patents basic and advanced users can obtain different information about a patent. Below we emphasize a few:

- Information about owner of the patent (patent ownership evolution, category of patent the owner has patented in)
- Information whether patent is licensed
- Information whether patent is potentially licensed

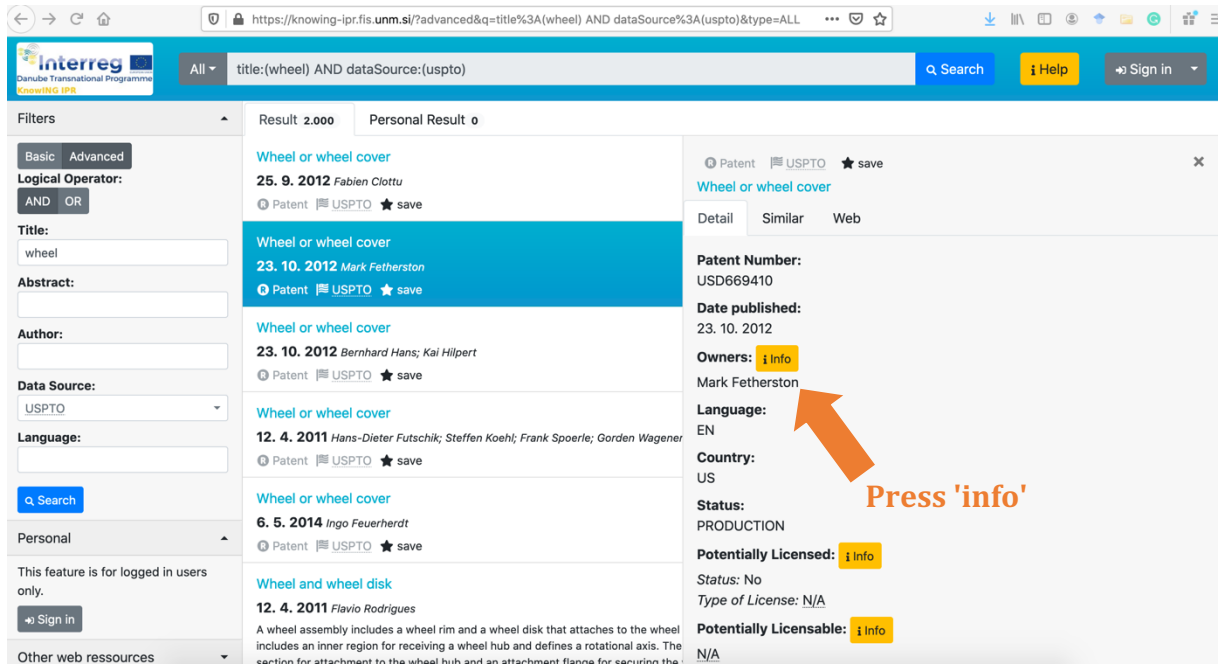


The screenshot shows the Interreg Knowing IPR search interface. The search query is "title:(wheel) AND dataSource:(uspto)". The results list includes several patents, with the following details highlighted for the patent "Wheel or wheel cover" (Patent Number: USD669410):

- Title:** Wheel or wheel cover
- Date published:** 23. 10. 2012
- Owners:** Mark Fetherston
- Language:** EN
- Country:** US
- Status:** PRODUCTION
- Potentially Licensed:** No
- Type of License:** N/A
- Potentially Licensable:** N/A

Orange arrows in the image indicate the flow of information from the search results to the detailed view of the patent.

Photo 12: Display of results, patent details on owner, and potentials for licensing



Filters: Result 2.000 Personal Result 0

Basic | Advanced

Logical Operator: AND OR

Title: wheel

Abstract:

Author:

Data Source: USPTO

Language:

Search

Personal

This feature is for logged in users only. Sign in

Other web resources

Patent USPTO save

Wheel or wheel cover

25. 9. 2012 Fabien Clottu

Patent USPTO save

Wheel or wheel cover

23. 10. 2012 Mark Fetherston

Patent USPTO save

Wheel or wheel cover

23. 10. 2012 Bernhard Hans; Kai Hilpert

Patent USPTO save

Wheel or wheel cover

12. 4. 2011 Hans-Dieter Futschik; Steffen Koeh; Frank Spoerle; Gorden Wagener

Patent USPTO save

Wheel or wheel cover

6. 5. 2014 Ingo Feuerherdt

Patent USPTO save

Wheel and wheel disk

12. 4. 2011 Flavio Rodrigues

A wheel assembly includes a wheel rim and a wheel disk that attaches to the wheel includes an inner region for receiving a wheel hub and defines a rotational axis. The section for attachment to the wheel hub and an attachment flange for securing the

Patent USPTO save

Patent Number: USD669410

Date published: 23. 10. 2012

Owners: **i info** Mark Fetherston

Language: EN

Country: US

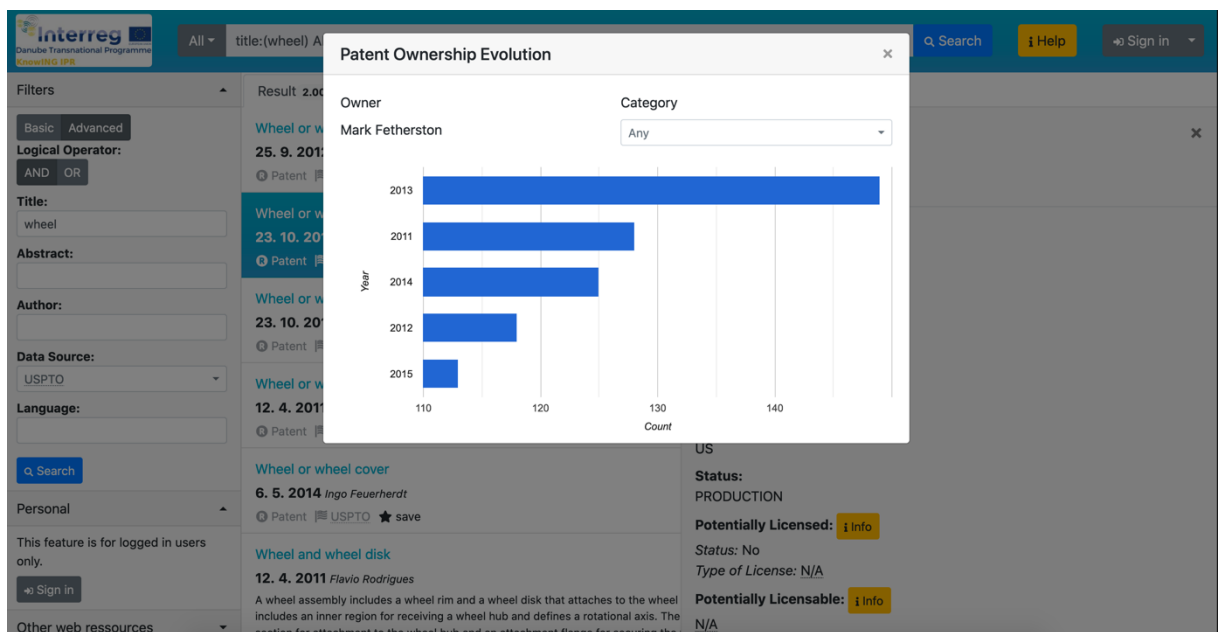
Status: PRODUCTION

Potentially Licensed: **i info** Status: No Type of License: N/A

Potentially Licensable: **i info** N/A

Press 'info'

Photo 13: Display of results, obtaining more info on ownership



Filters: Result 2.000 Personal Result 0

Basic | Advanced

Logical Operator: AND OR

Title: wheel

Abstract:

Author:

Data Source: USPTO

Language:

Search

Personal

This feature is for logged in users only. Sign in

Other web resources

Patent USPTO save

Wheel or wheel cover

25. 9. 2012 Fabien Clottu

Patent USPTO save

Wheel or wheel cover

23. 10. 2012 Mark Fetherston

Patent USPTO save

Wheel or wheel cover

23. 10. 2012 Bernhard Hans; Kai Hilpert

Patent USPTO save

Wheel or wheel cover

12. 4. 2011 Hans-Dieter Futschik; Steffen Koeh; Frank Spoerle; Gorden Wagener

Patent USPTO save

Wheel or wheel cover

6. 5. 2014 Ingo Feuerherdt

Patent USPTO save

Wheel and wheel disk

12. 4. 2011 Flavio Rodrigues

A wheel assembly includes a wheel rim and a wheel disk that attaches to the wheel includes an inner region for receiving a wheel hub and defines a rotational axis. The section for attachment to the wheel hub and an attachment flange for securing the

Patent USPTO save

Patent Ownership Evolution

Owner: Mark Fetherston

Category: Any

Year	Count
2013	145
2011	125
2014	120
2012	115
2015	110

Status: PRODUCTION

Potentially Licensed: **i info** Status: No Type of License: N/A

Potentially Licensable: **i info** N/A

Photo 14: Display of results, patent ownership evolution

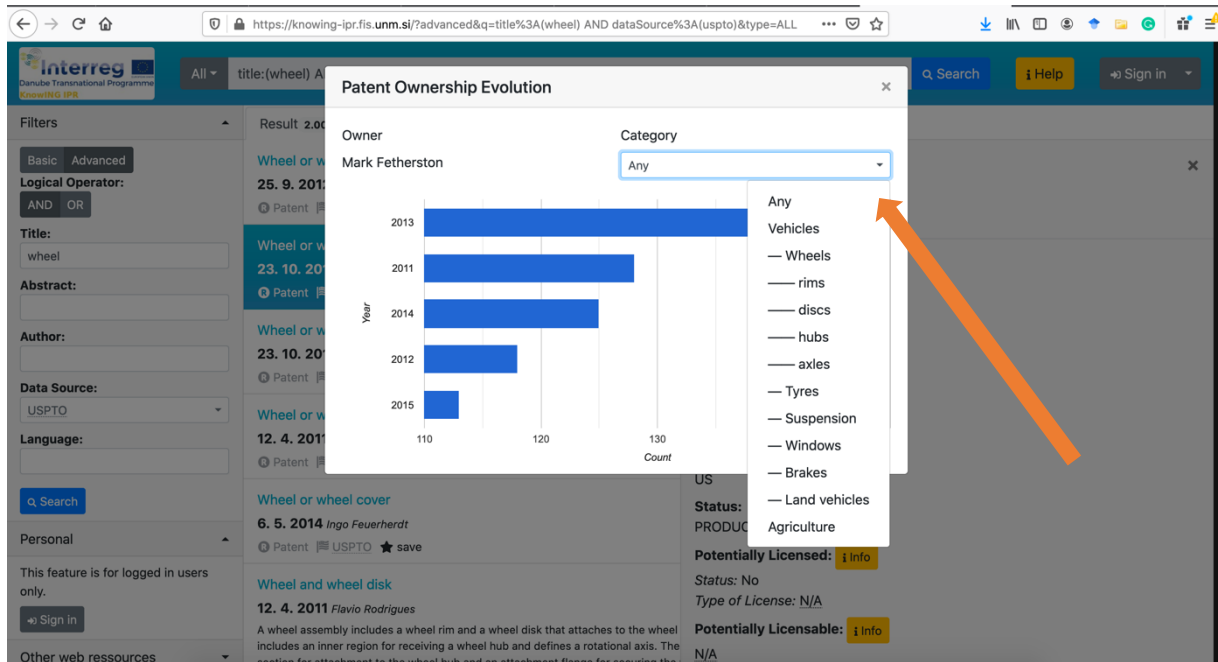


Photo 15: Display of results, patent ownership evolution, browsing by patent category of the patent owner, part 1

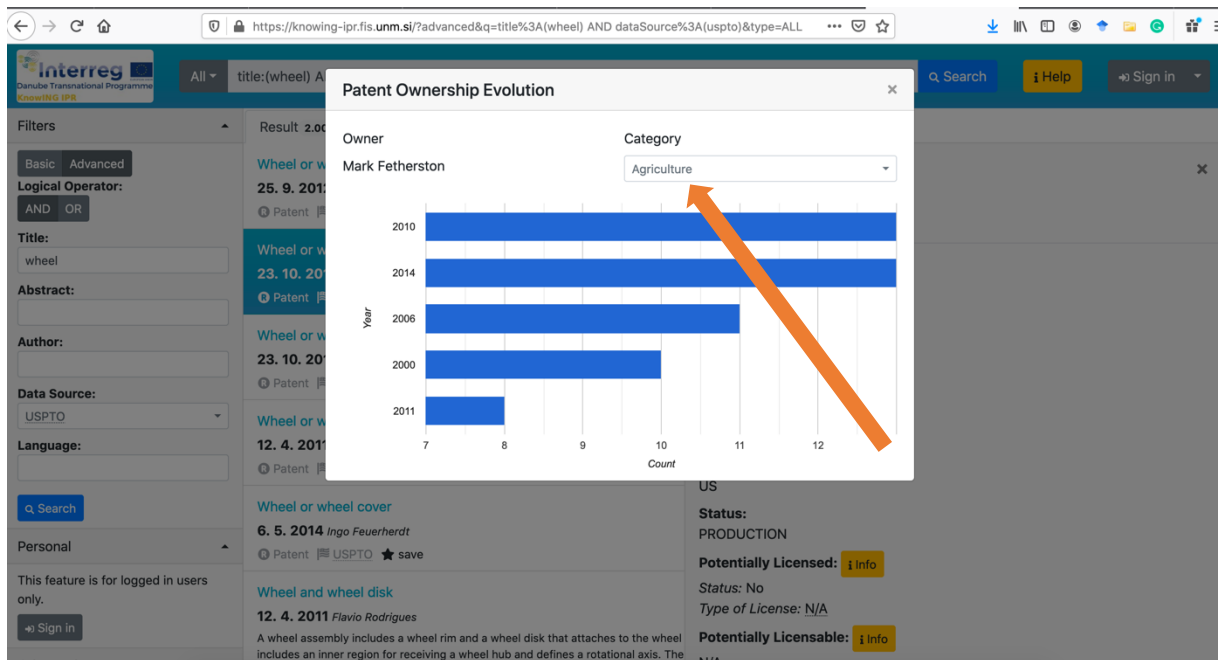
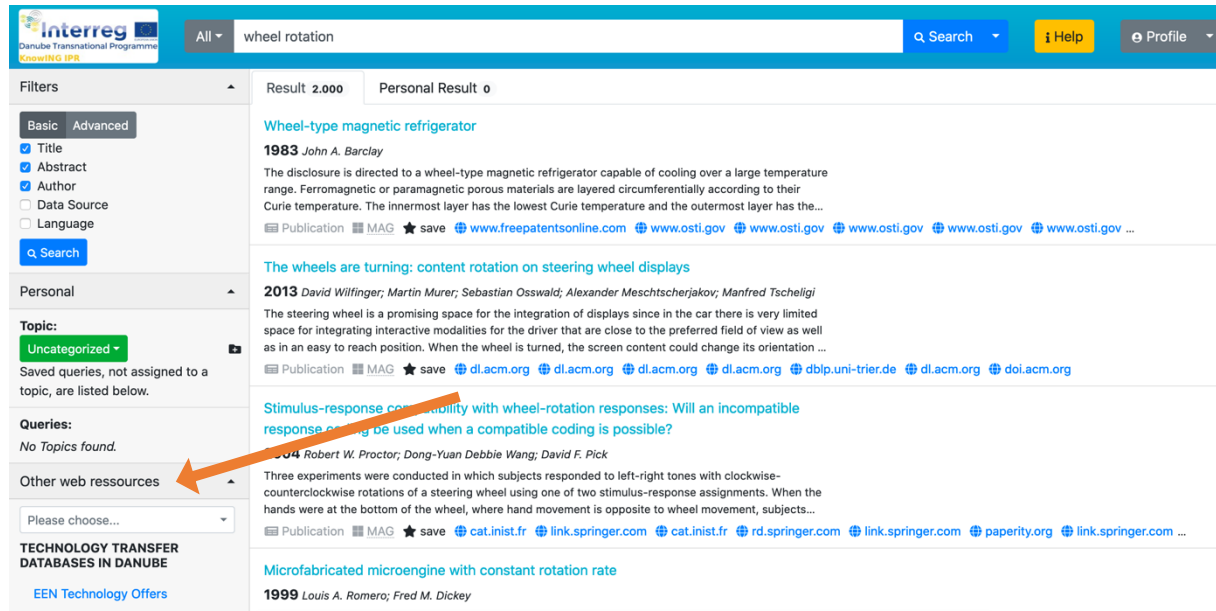


Photo 16: Display of results, patent ownership evolution, browsing by patent category of the patent owner, part 2

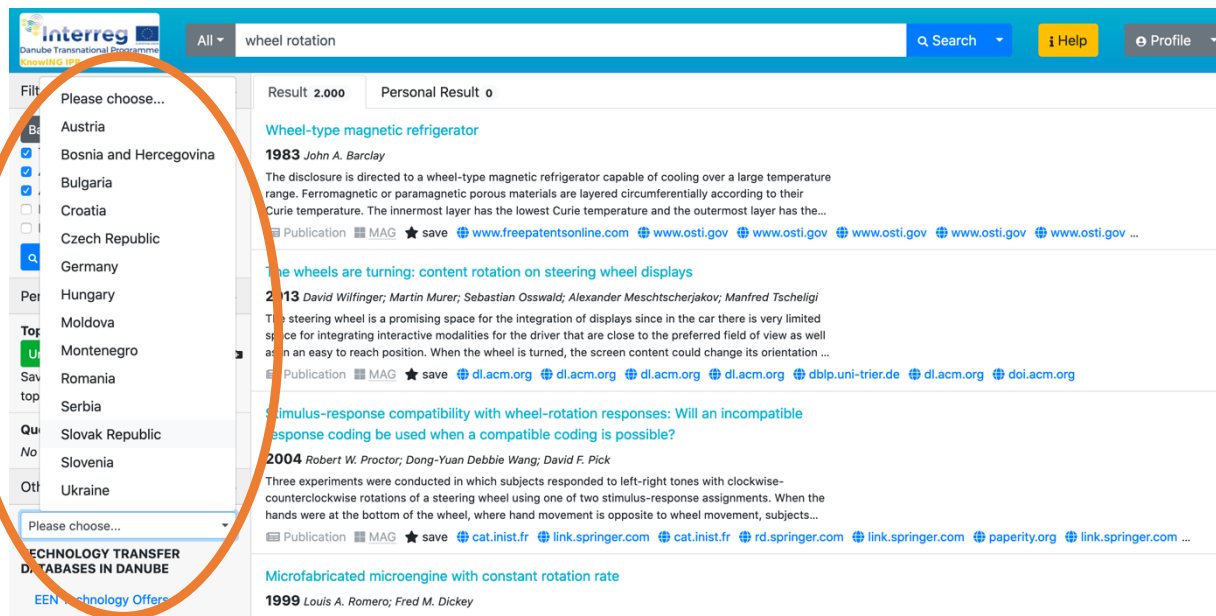
Search through national patenting databases

The KnowING HUB application offers potentials to conduct queries through different national databases. Few examples are below.



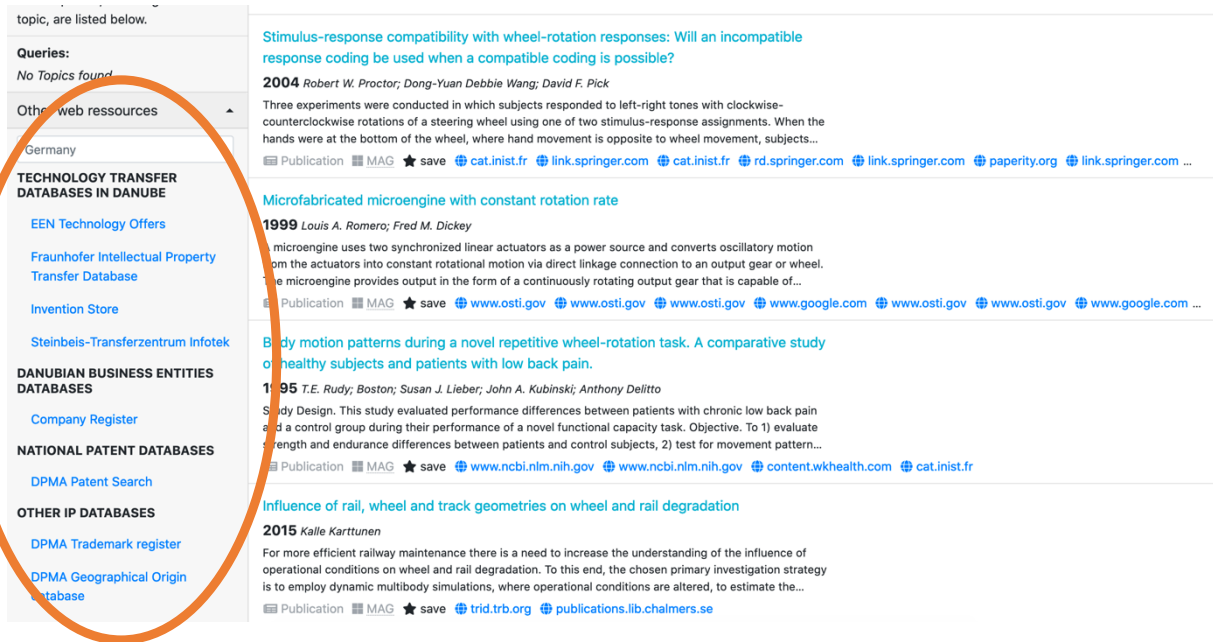
The screenshot shows the Interreg KnowING IPR search interface. The search term is "wheel rotation". The results page displays several entries, including "Wheel-type magnetic refrigerator" (1983), "The wheels are turning: content rotation on steering wheel displays" (2013), "Stimulus-response compatibility with wheel-rotation responses: Will an incompatible response coding be used when a compatible coding is possible?" (2004), and "Microfabricated microengine with constant rotation rate" (1999). On the left side, there are filters for "Basic" and "Advanced" search options, a "Personal" section with a "Topic" dropdown set to "Uncategorized", and a section for "Other web resources" which is highlighted by an orange arrow.

Photo 17: Searching through 'other web resources'



This screenshot shows the same search interface as Photo 17, but with the "Other web resources" section expanded. A list of countries is displayed in the left sidebar, including Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Germany, Hungary, Moldova, Montenegro, Romania, Serbia, Slovak Republic, Slovenia, and Ukraine. This list is circled in orange. The search results for "wheel rotation" are visible in the background.

Photo 18: Choosing a country



topic, are listed below.

Queries:
No Topics found

Other web resources

Germany

TECHNOLOGY TRANSFER DATABASES IN DANUBE

- EEN Technology Offers
- Fraunhofer Intellectual Property Transfer Database
- Invention Store
- Steinbeis-Transferzentrum Infotek

DANUBIAN BUSINESS ENTITIES DATABASES

- Company Register

NATIONAL PATENT DATABASES

- DPMA Patent Search

OTHER IP DATABASES

- DPMA Trademark register
- DPMA Geographical Origin Database

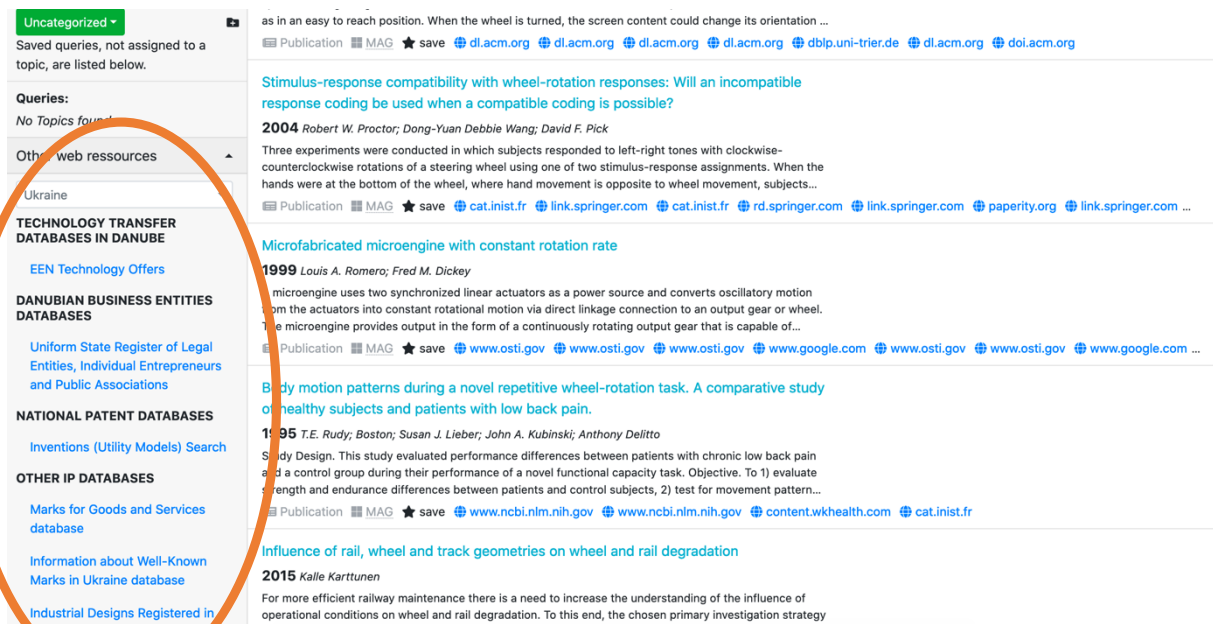
Stimulus-response compatibility with wheel-rotation responses: Will an incompatible response coding be used when a compatible coding is possible?
2004 Robert W. Proctor; Dong-Yuan Debbie Wang; David F. Pick
Three experiments were conducted in which subjects responded to left-right tones with clockwise-counterclockwise rotations of a steering wheel using one of two stimulus-response assignments. When the hands were at the bottom of the wheel, where hand movement is opposite to wheel movement, subjects...
Publication | MAG | save | cat.inist.fr | link.springer.com | cat.inist.fr | rd.springer.com | link.springer.com | paperity.org | link.springer.com ...

Microfabricated microengine with constant rotation rate
1999 Louis A. Romero; Fred M. Dickey
The microengine uses two synchronized linear actuators as a power source and converts oscillatory motion from the actuators into constant rotational motion via direct linkage connection to an output gear or wheel. The microengine provides output in the form of a continuously rotating output gear that is capable of...
Publication | MAG | save | www.osti.gov | www.osti.gov | www.osti.gov | www.google.com | www.osti.gov | www.osti.gov | www.google.com ...

Body motion patterns during a novel repetitive wheel-rotation task. A comparative study of healthy subjects and patients with low back pain.
1995 T.E. Rudy; Boston; Susan J. Lieber; John A. Kubinski; Anthony Delitto
Study Design. This study evaluated performance differences between patients with chronic low back pain and a control group during their performance of a novel functional capacity task. Objective. To 1) evaluate strength and endurance differences between patients and control subjects, 2) test for movement pattern...
Publication | MAG | save | www.ncbi.nlm.nih.gov | www.ncbi.nlm.nih.gov | content.wkhealth.com | cat.inist.fr

Influence of rail, wheel and track geometries on wheel and rail degradation
2015 Kalle Karttunen
For more efficient railway maintenance there is a need to increase the understanding of the influence of operational conditions on wheel and rail degradation. To this end, the chosen primary investigation strategy is to employ dynamic multibody simulations, where operational conditions are altered, to estimate the...
Publication | MAG | save | trid.trb.org | publications.lib.chalmers.se

Photo 19: List of available databases from Germany



Uncategorized

Saved queries, not assigned to a topic, are listed below.

Queries:
No Topics found

Other web resources

Ukraine

TECHNOLOGY TRANSFER DATABASES IN DANUBE

- EEN Technology Offers

DANUBIAN BUSINESS ENTITIES DATABASES

- Uniform State Register of Legal Entities, Individual Entrepreneurs and Public Associations

NATIONAL PATENT DATABASES

- Inventions (Utility Models) Search

OTHER IP DATABASES

- Marks for Goods and Services database
- Information about Well-Known Marks in Ukraine database
- Industrial Designs Registered in

as in an easy to reach position. When the wheel is turned, the screen content could change its orientation ...
Publication | MAG | save | dl.acm.org | dl.acm.org | dl.acm.org | dl.acm.org | dblp.uni-trier.de | dl.acm.org | doi.acm.org

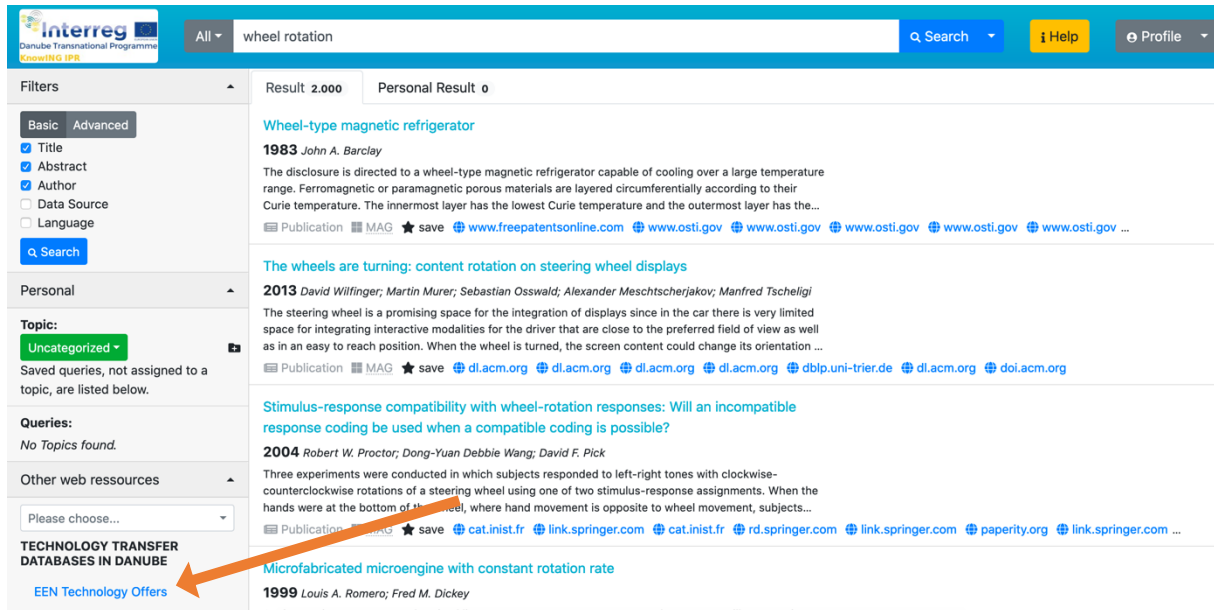
Stimulus-response compatibility with wheel-rotation responses: Will an incompatible response coding be used when a compatible coding is possible?
2004 Robert W. Proctor; Dong-Yuan Debbie Wang; David F. Pick
Three experiments were conducted in which subjects responded to left-right tones with clockwise-counterclockwise rotations of a steering wheel using one of two stimulus-response assignments. When the hands were at the bottom of the wheel, where hand movement is opposite to wheel movement, subjects...
Publication | MAG | save | cat.inist.fr | link.springer.com | cat.inist.fr | rd.springer.com | link.springer.com | paperity.org | link.springer.com ...

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Publication | MAG | save | www.osti.gov | www.osti.gov | www.osti.gov | www.google.com | www.osti.gov | www.osti.gov | www.google.com ...

Body motion patterns during a novel repetitive wheel-rotation task. A comparative study of healthy subjects and patients with low back pain.
1995 T.E. Rudy; Boston; Susan J. Lieber; John A. Kubinski; Anthony Delitto
Study Design. This study evaluated performance differences between patients with chronic low back pain and a control group during their performance of a novel functional capacity task. Objective. To 1) evaluate strength and endurance differences between patients and control subjects, 2) test for movement pattern...
Publication | MAG | save | www.ncbi.nlm.nih.gov | www.ncbi.nlm.nih.gov | content.wkhealth.com | cat.inist.fr

Influence of rail, wheel and track geometries on wheel and rail degradation
2015 Kalle Karttunen
For more efficient railway maintenance there is a need to increase the understanding of the influence of operational conditions on wheel and rail degradation. To this end, the chosen primary investigation strategy

Photo 20: List of available databases from Ukraine



Interreg Danube Transnational Programme
 Knowing IPR

All wheel rotation Search Help Profile

Filters Result 2.000 Personal Result 0

Basic Advanced
 Title
 Abstract
 Author
 Data Source
 Language
 Search

Personal

Topic:
 Uncategorized
 Saved queries, not assigned to a topic, are listed below.

Queries:
 No Topics found.

Other web resources
 Please choose...

TECHNOLOGY TRANSFER DATABASES IN DANUBE
[EEN Technology Offers](#)

Wheel-type magnetic refrigerator
 1983 John A. Barclay
 The disclosure is directed to a wheel-type magnetic refrigerator capable of cooling over a large temperature range. Ferromagnetic or paramagnetic porous materials are layered circumferentially according to their Curie temperature. The innermost layer has the lowest Curie temperature and the outermost layer has the...
 Publication MAG save www.freepatentsonline.com www.osti.gov www.osti.gov www.osti.gov www.osti.gov ...

The wheels are turning: content rotation on steering wheel displays
 2013 David Wilfinger; Martin Murer; Sebastian Osswald; Alexander Meschtscherjakov; Manfred Tscheligi
 The steering wheel is a promising space for the integration of displays since in the car there is very limited space for integrating interactive modalities for the driver that are close to the preferred field of view as well as in an easy to reach position. When the wheel is turned, the screen content could change its orientation ...
 Publication MAG save dl.acm.org dl.acm.org dl.acm.org dl.acm.org dblp.uni-trier.de dl.acm.org doi.acm.org

Stimulus-response compatibility with wheel-rotation responses: Will an incompatible response coding be used when a compatible coding is possible?
 2004 Robert W. Proctor; Dong-Yuan Debbie Wang; David F. Plick
 Three experiments were conducted in which subjects responded to left-right tones with clockwise-counterclockwise rotations of a steering wheel using one of two stimulus-response assignments. When the hands were at the bottom of the wheel, where hand movement is opposite to wheel movement, subjects...
 Publication MAG save cat.inist.fr link.springer.com cat.inist.fr rd.springer.com link.springer.com paperity.org link.springer.com ...

Microfabricated microengine with constant rotation rate
 1999 Louis A. Romero; Fred M. Dickey

Photo 21: Access to EEN Technology offers

What makes Knowing HUB platform so special

The graphic is a vertical rectangular layout. On the left, there is a dark blue background with a glowing network of yellow and white nodes and lines. A hand is shown in the center, with a glowing yellow circle on the palm, from which several lines radiate outwards, connecting to other nodes in the network. The top of the graphic has a solid orange background with white text. The middle section is white with blue and orange text and logos. The bottom right section is a solid orange background with white text.

**Explore the power
of patent analytics
to enhance your
business and IPR
management**

 **Interreg** 
Danube Transnational Programme
KnowiNG IPR

CONTACT US
knowing.ipr@fis.unm.si
www.interreg-danube.eu/knowing-ipr
and
<https://knowing-ipr.fis.unm.si>

Project co-funded by European Union
funds (ERDF, IPA, ENI)

KnowiNG HUB
<https://knowing-ipr.fis.unm.si>

Photo 22: What makes KnowiNG HUB so special, part 1

GENERAL POTENTIAL

It is easy to manage, it gives user friendly innovation and R&D data search, but most of all - it includes links to even more data related to the conducted search.

What makes Knowing HUB platform so unique?

Safe to use

The users who register can conduct queries and save them. The users who do not want to save queries results online, can download the offline application.

DETAILED POTENTIAL

Structure and arrange your queries in 'Topics'

For registered users, you can create your own "Topics" folder where your queries and search results are saved. You can write notes to each of the results.

Patent and publication data combined & web search

Using KnowiNG HUB platform one can simultaneously browse through patent data and scientific publications data. Each query offers parallel web search of the topic and offers similar patents search.

Discover background data

Discover background data, like licensing opportunities and which patents are used in production.

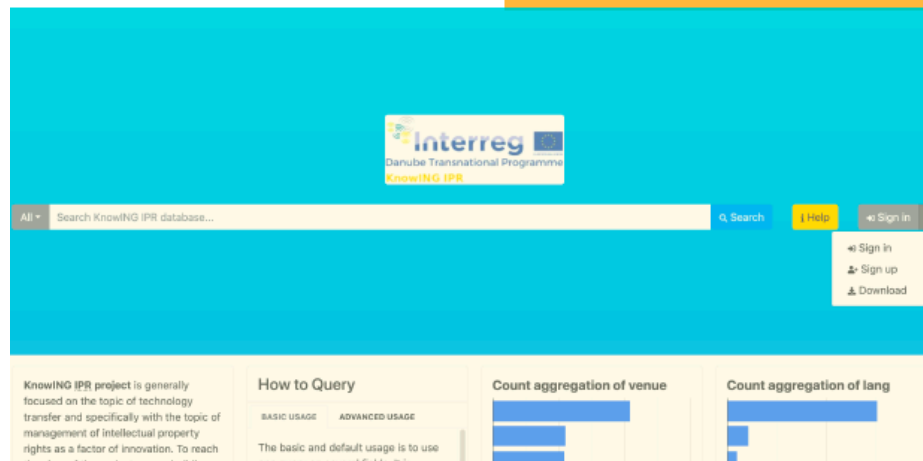


Photo 23: What makes KnowiNG HUB so special, part 2

Conclusion

To sum up, the Output 4.1 KnowING HUB web portal offers elaborated and structured approach in exploitation of KnowING IPR results. The web portal will be hosted at the servers of the LP also after the projects end, ensuring the durability of the result. It is the complementary Output 4.3 that was elaborated to provide the path of ensuring the durability and exploitation of the results.

The Output feeds from the deliverables of the Activity A4.1 (UxD activities), and Activity 4.2 (Development activities). The present Output 4.1. can serve as guiding document on the potentials of KnowING HUB and can serve participants of the KnowING HUB initiative to have a full guidance through the potentials of KnowING HUB.