

#### **PATENTSCOPE**

Search features and exercise

June 2, 2021

Nathalie Montillot

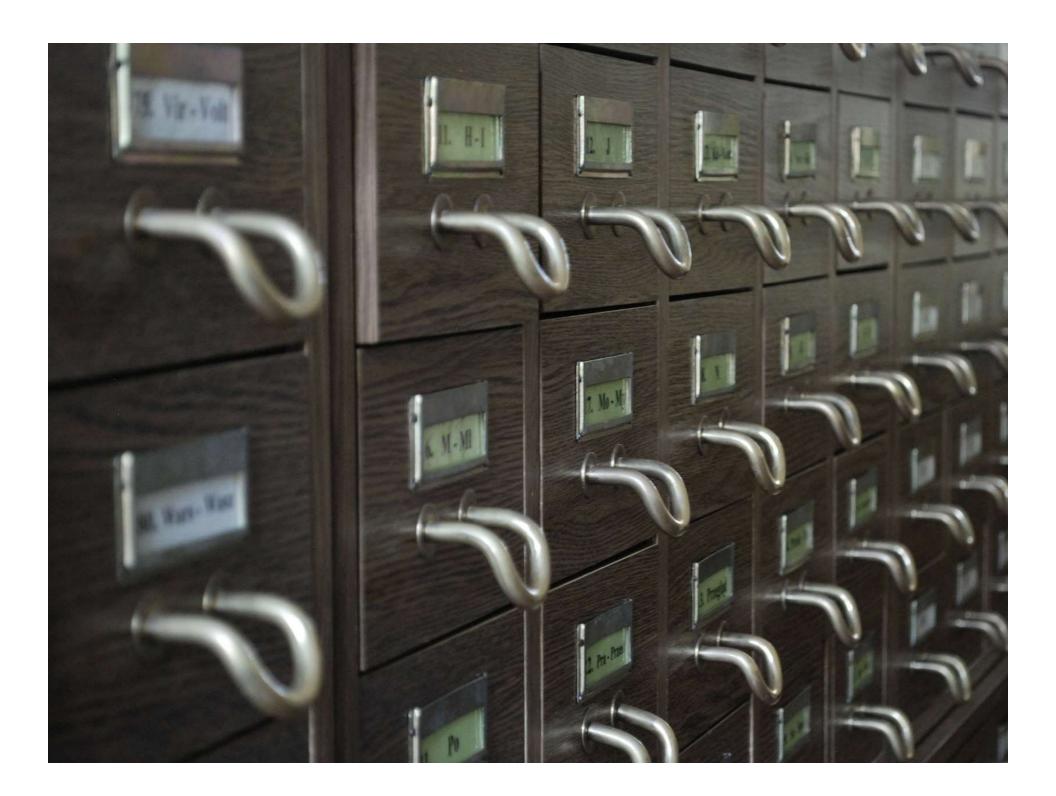
Program Officer, Technology and Innovation Support Division

#### Patent documents

- 120+ million patent documents published to date
- 2+ million new patent applications published yearly







#### Patent databases

- Highly standardized format
  - ➤ Unique source of information
  - > Easy access and retrieval



## PATENTSCOPE figures

Patent documents	95 million
Patent collections	72
- National	68
- Regional	3
- International (PCT)	1
Cost	None!

#### Detailed data coverage:

https://patentscope.wipo.int/search/en/help/data\_coverage.jsf



#### Is my invention new? What technologies already exist, e.g. solar cells?



H01L 31/042

 PV modules or arrays of single PV cells (supporting structures for PV modules H02S 20/00) [2014.01]

#### IPC: https://www.wipo.int/classifications/ipc/ipcpub



## Why PATENTSCOPE?

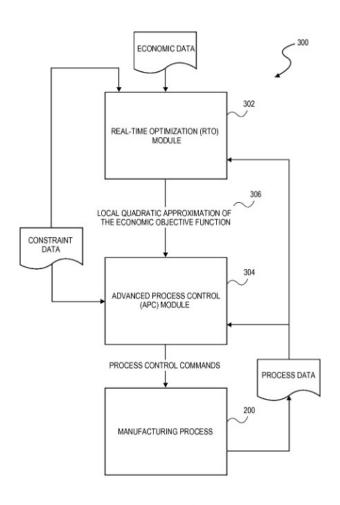
- Flexible interfaces
  - Simple and advanced search interfaces
- Powerful translation tools
  - WIPO Translate: AI-powered tool to search and translate patent documents in up to 14 languages
  - Cross-lingual Expansion: looks for synonyms and translates terms and variations in up to 14 languages
- Graphical analysis of search results
- Save and export search results\*
- Chemical compound search\*



<sup>\*</sup> requires to register with a free account

#### Scenario

A researcher at a systems development laboratory is considering a direction for her research into adaptive control systems.



WIPO
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

#### Scenario

- The researcher wants to know:
  - which technologies already exist in this area
  - which organizations or individuals are particularly active in this area

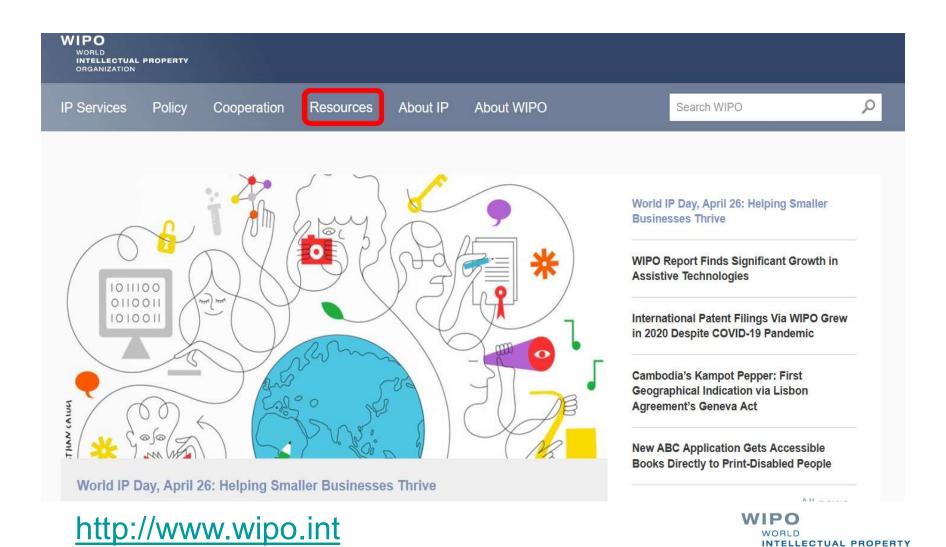


#### Task breakdown

- Access the PATENTSCOPE search service
- Retrieve patent documents based on
  - keywords
  - classification
  - keywords and classification
- Analyze the whole set of results according to applicants and inventors
- Examine a specific patent document and its related documents within the results
- Keep up-to-date on new patent documents

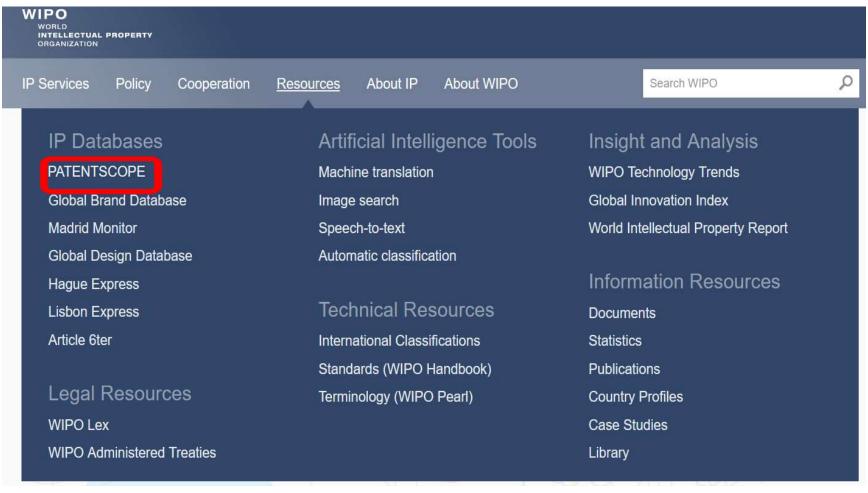


## WIPO homepage

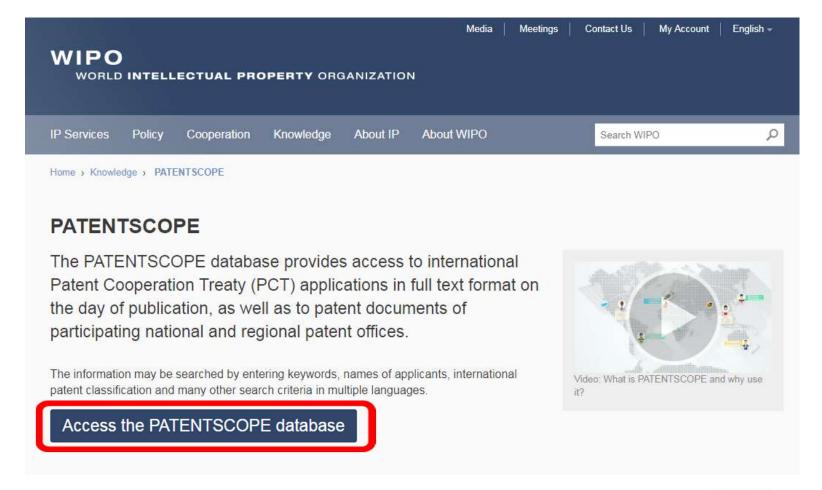


ORGANIZATION

## WIPO homepage

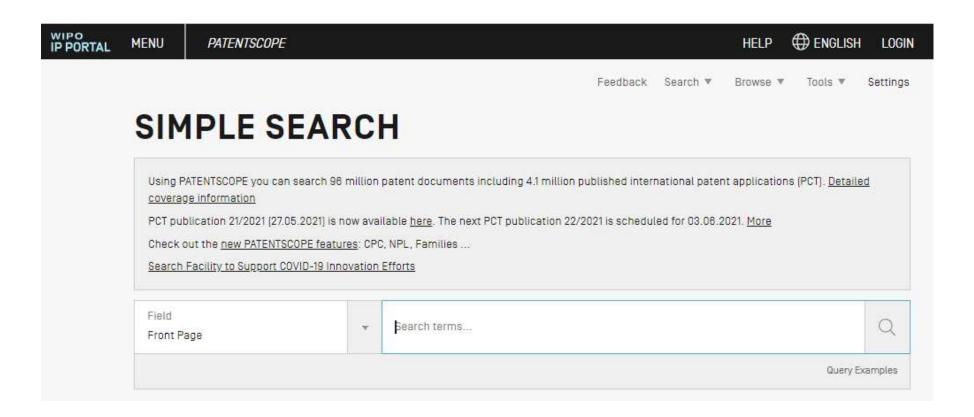


## WIPO homepage: PATENTSCOPE





#### WIPO PATENTSCOPE





#### Task breakdown

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  - keywords
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## **CLIR**: Synonyms and variants

- Original language adaptive control system → adaptive regulating system, ...
- Other languages adaptive control system → système de régulation adaptatif, ...
- → Chinese, English, French, German, Japanese, Korean, Portuguese, Russian, Spanish, Dutch, Italian, Swedish

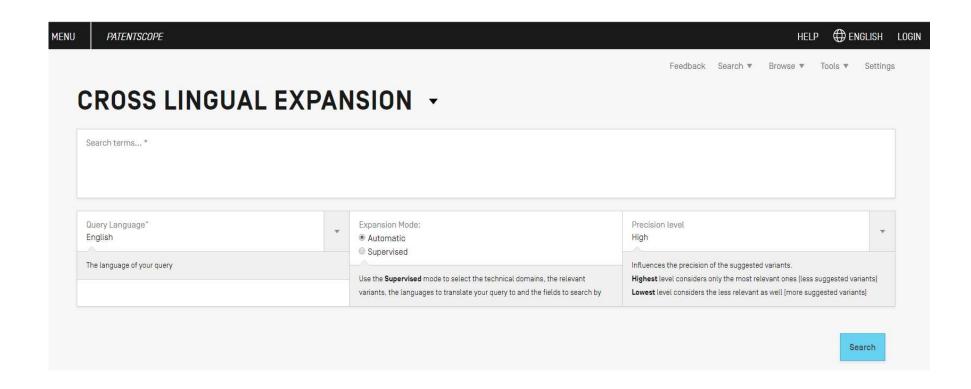


# Search interface: Cross Lingual Expansion (CLIR)



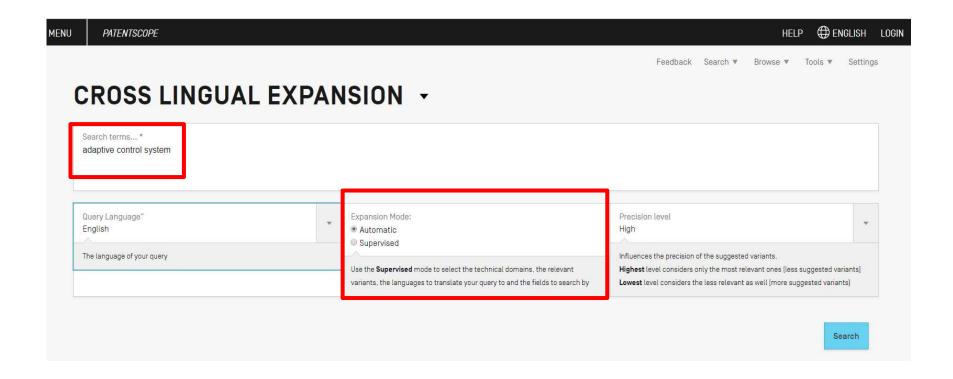


## **CLIR**





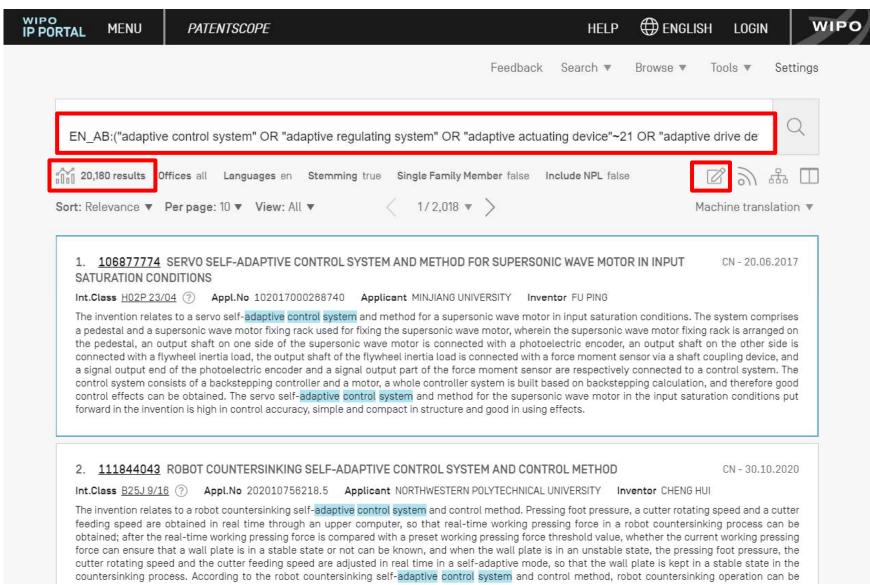
#### **CLIR Search**



→ Query language is the language in which your query is entered



## CLIR: Query and results

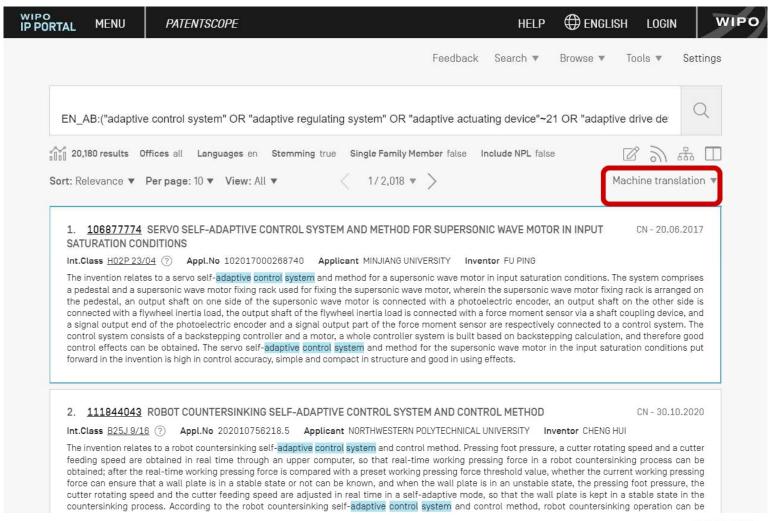


## **CLIR:** Full query

EN AB: ("adaptive control system" OR "adaptive regulating system" OR "adaptive actuating device"~21 OR "adaptive drive de 20,180 results Offices all Languages en Stemming true Single Family Member false Include NPL false **FULL QUERY** Close Edit EN AB: ("adaptive control system" OR "adaptive regulating system" OR "adaptive actuating device" ~21 OR "adaptive drive device" ~21) OR FR AB "système de commande adaptative" OR "système de contrôle adaptif" OR "système de protection adaptable" OR "système régulateur a adaptation" OR "dispositif de commande adaptive" OR "système adaptable de régulation" OR "système de régulation adaptatif") OF DE AB: ("Adaptivsteuerung" OR "adaptives Steuerungssystem" OR "Adaptives Steuerungssystem" OR "Adaptivsteuerungssystem" OR "Anpassungsfähiges Steuersystem" O<u>R "adaptiv</u>es Steuersystem" OR "Selbststeuerndes System" OR "selbststeuerndes System" OR "anpassungsfähiges Regelsystem") OF ES\_AB<mark>(</mark>"control adaptable") OR PT\_AB:("sistema controle adaptador"~22) OR JA\_AB:("適応制御" OR "適応型制御システム") OR RU AB:("адаптивная система управления" OR "система адаптивного управления" OR "адаптивная система регулирования") OR ZH AB:("自活应控制" OR "自活应控制系统及") OR KO AB:("시스템 적응 제어"~22 OR "장치 적응 제어"~22) OR IT AB: ("sistema di controllo adattablie") OR SV AB:("adaptiv reglersystem"~22 OR "adaptiv regleranordning"~22 OR "adaptivt reglersystem"~22 OR adaptiv styrningssystem"~22 OR "adaptiv ventilmanovreringsanordning"~22 OR "adaptiv påverkningsanordning"~22 OR"adaptiv" reglerapparat"~22 OR "adaptivt regleranordning"~22 OR "adapter reglersystem"~22) OR NL AB:("regelstelsel" OR "adaptive besturing systeem"~22 OR "adaptieve besturing stelsel"~22 OR "adaptieve besturing inrichting"~22) OR PL AB:("based układ sterowania"~22 OR "based system sterowania"~22 OR "based oraz uklad sterowania"~22 OR "adapter do dozownika układ sterowania"~22 OR "adapter układ sterowania"~22 OR "based układ regulacji"~22 OR "based urządzenie napedowe"~22 OR "based sterowania modelem"~22 OR "adaptacyjny układ sterowania"~22) OR DA AB: ("adaptiv styresystem"~22 OR "adaptiv styreindretning"~22 OR "adapteren styresystem"~22 OR "adapterbar styresystem"~22 OR "adaptiv kontrolsystem"~22 OR "adapteren styreindretning"~22 OR "adaptiv drivindretning"~22 OR "adapterbar styreindretning"~22 OR "omstilleligt styresystem"~22)

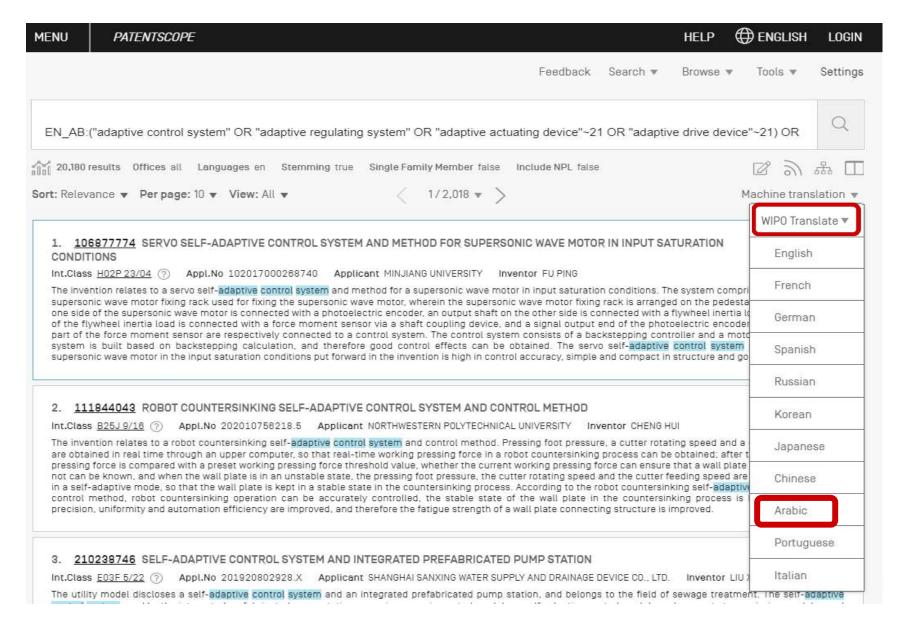


### Machine translation

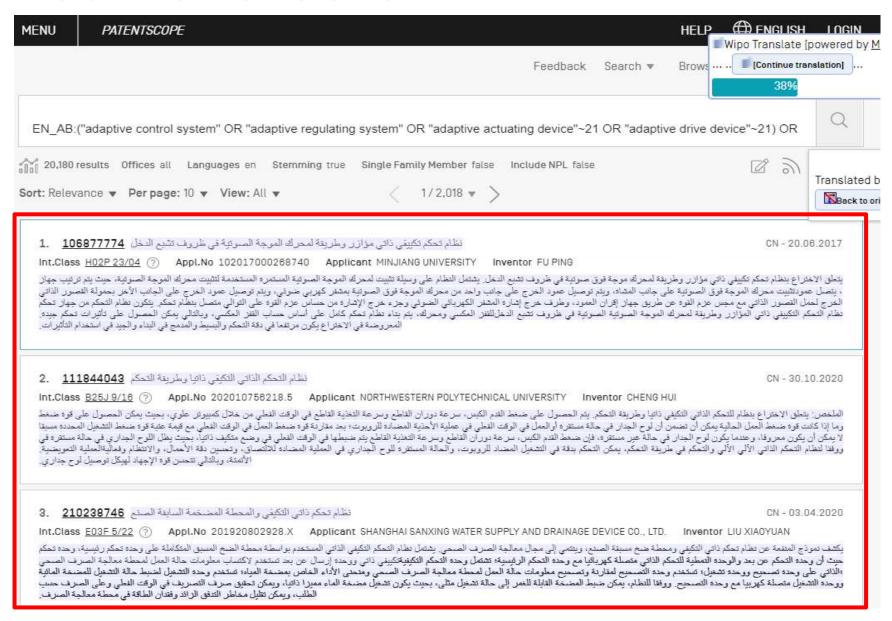




### Machine translation



#### Machine translation



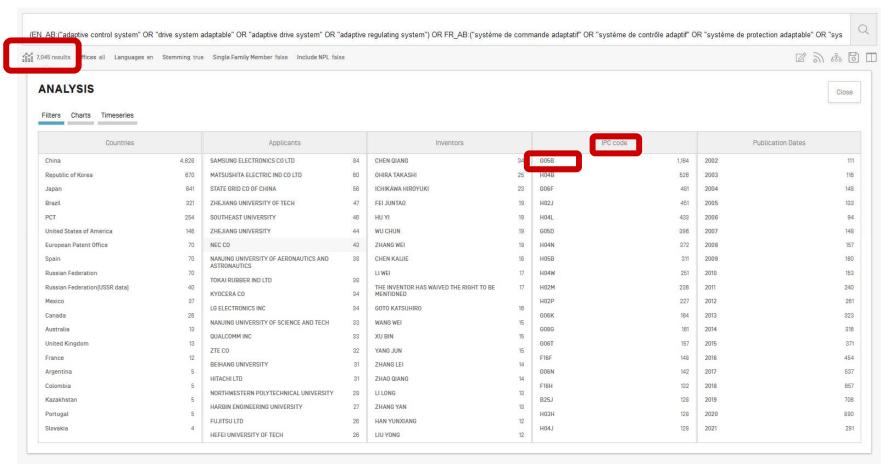
#### Task breakdown

- Access the PATENTSCOPE search service
- Retrieve patent documents based on
  - keywords
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- Analyze the whole set of results according to applicants and inventors

NTELLECTUAL PROPERTY

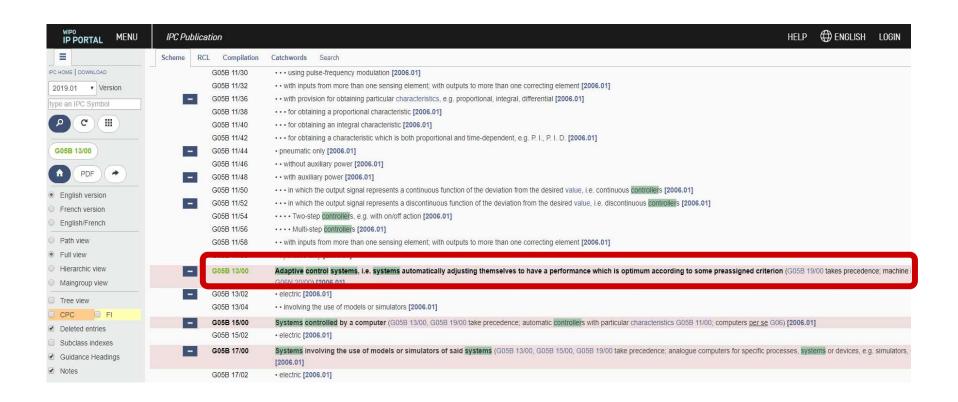
- Examine a specific patent document and its related documents within the results
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## Results: Analysis



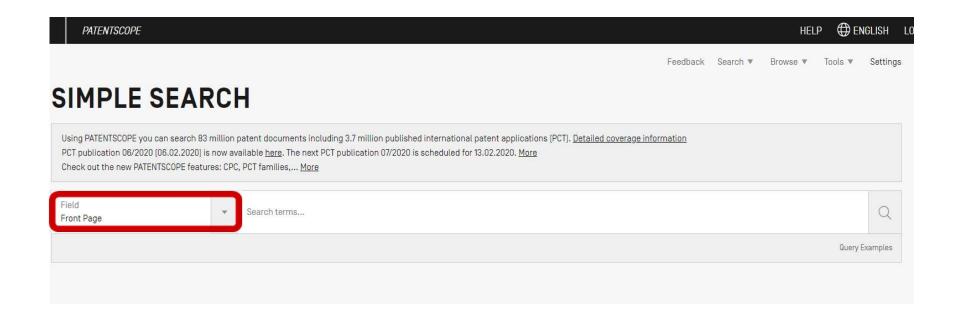
WIPO
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ORGANIZATION

#### International Patent Classification



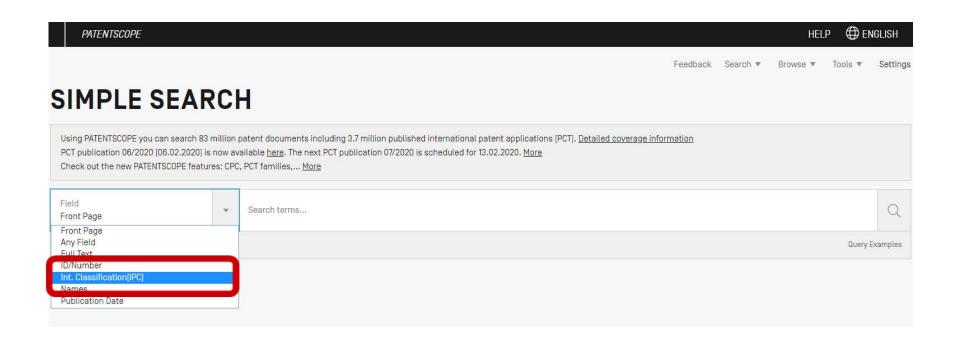


## Interfaces: Simple search



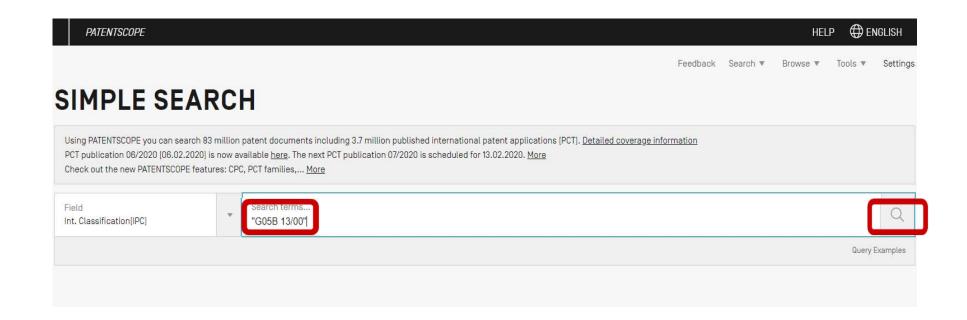


# Interfaces: Simple search



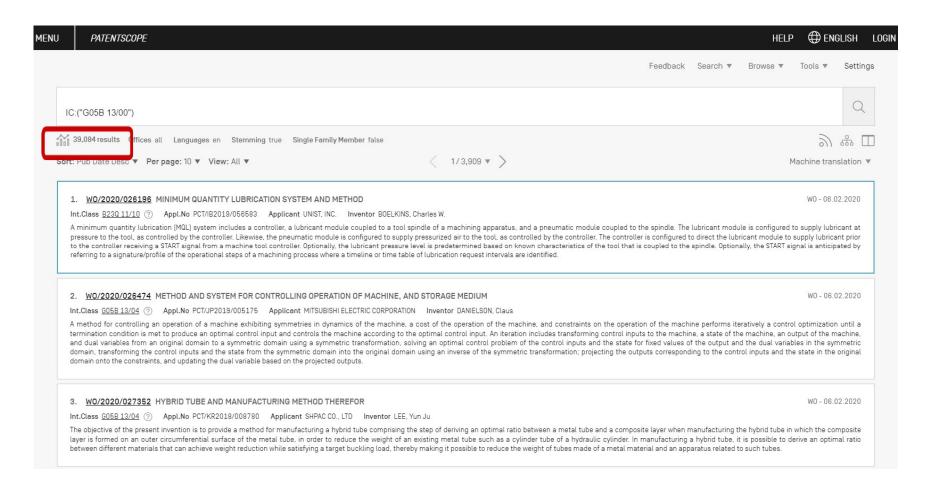


## Simple search: IPC





## Simple search: Query and results



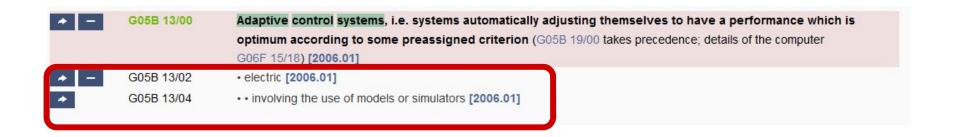


#### Scenario: A twist

The researcher now wants to focus the research on adaptive control systems adapted for the oil industry



#### Classification: G05B 13/00



→ No classification available for "Adaptive control systems ... oil industry"

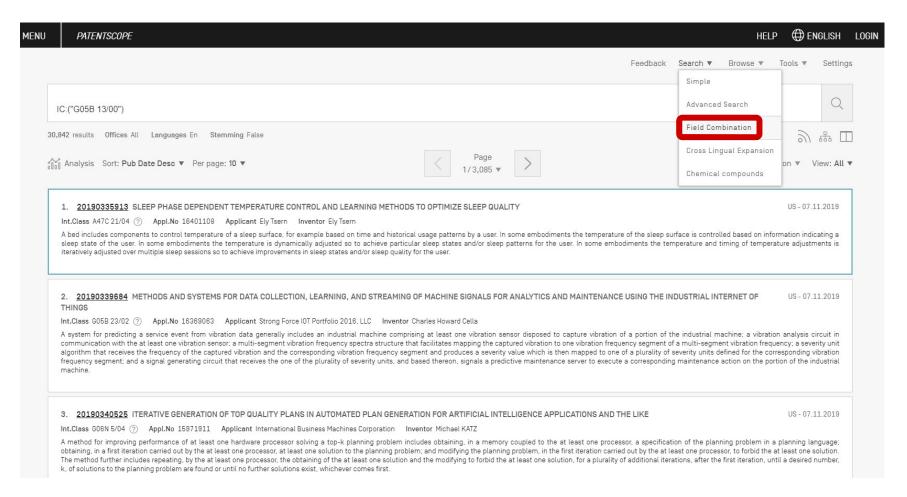


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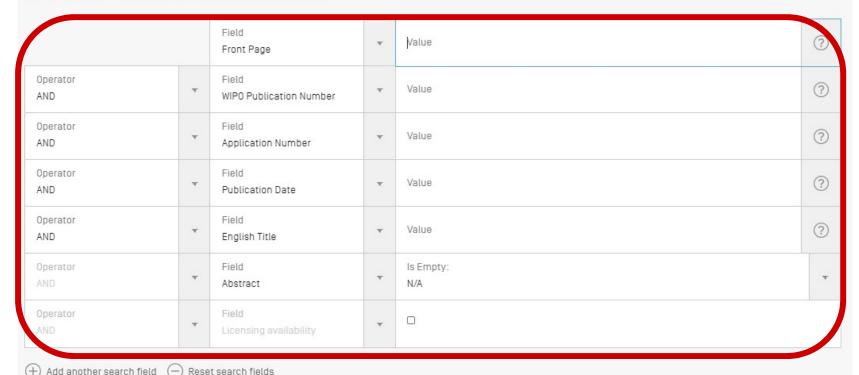
## Simple search: Field combination





## Interface: Field combination

### FIELD COMBINATION -



Offices All	٧
Languages English	Ψ.

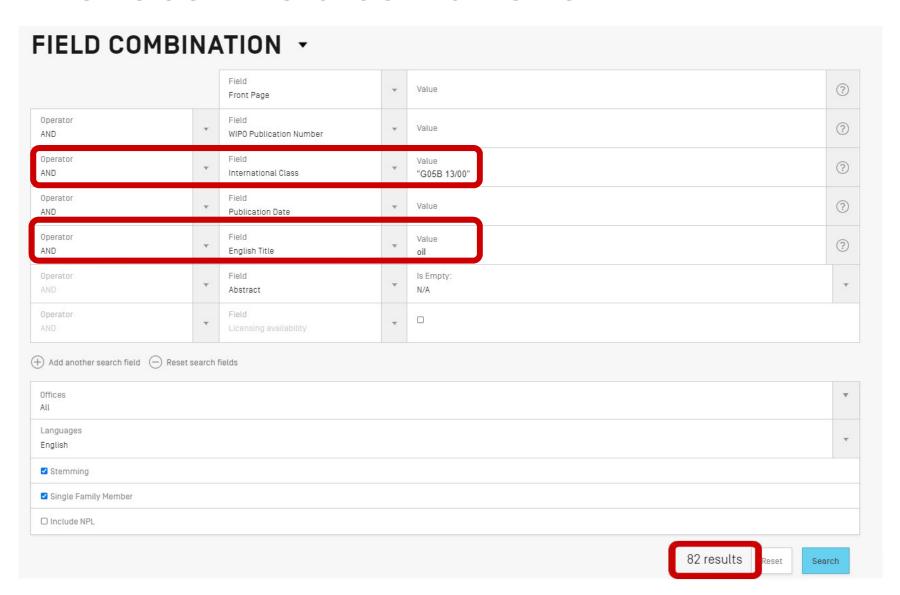
☐ Single Family Member

☐ Include NPL

☐ Stemming

PERTY

## Interface: Field combination



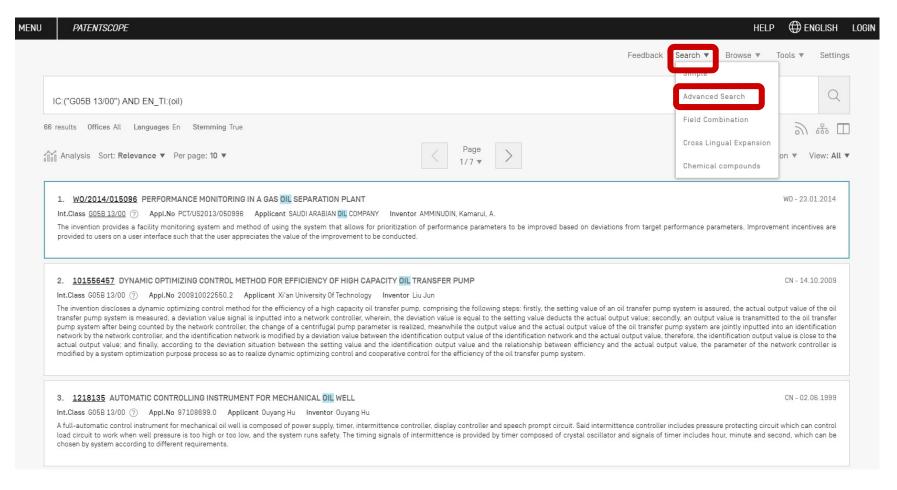
# Concepts and synonyms

oil: petroleum

→oil **OR** petroleum

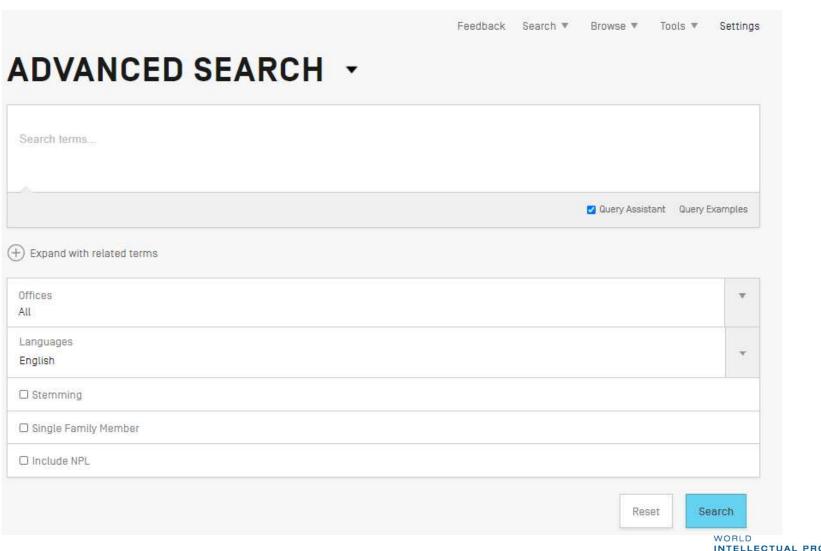


## Interface: Advanced search



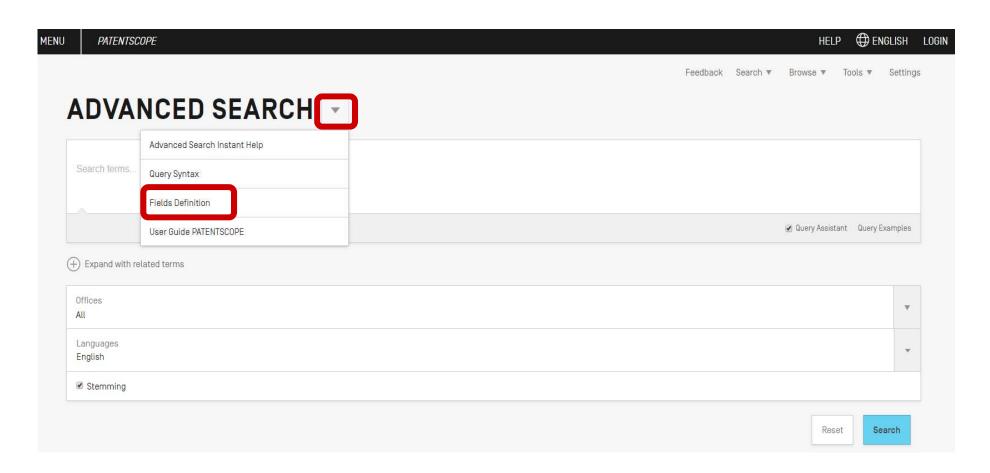


## Interface: Advanced search



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## Advanced search interface: Field codes





## Advanced search interface: Field codes

- International classification → IC:(...)
- English title
  → EN\_TI:(...)
- English abstract → EN\_AB:(...)
- English claims
  → EN\_CL:(…)

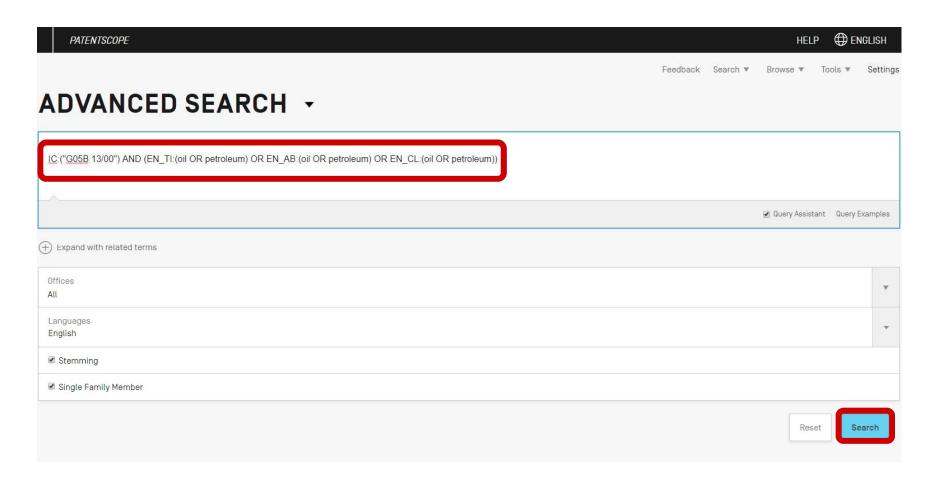


## Query

→ IC:("G05B 13/00") AND (EN\_TI:(oil OR petroleum) OR EN\_AB:(oil OR petroleum) OR EN\_CL:(oil OR petroleum))

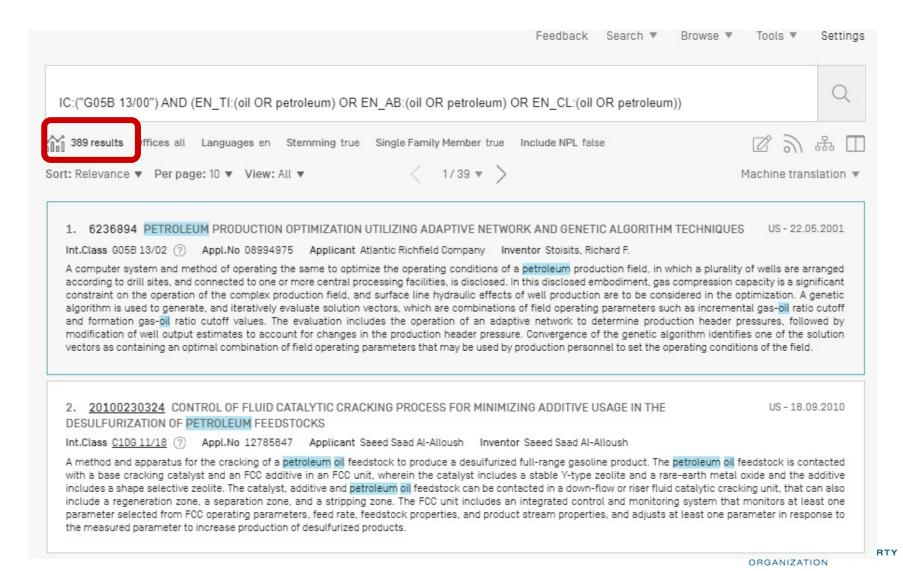


# Advanced search: Query





## Advanced search: Query and results



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### Results

IC:("G05B 13/00") AND EN TI:(oil)



2 results Offices all Languages en Stemming true Single Family Member true Include NPL false

Sort: Relevance ▼ Perpage: 10 ▼ View: All ▼

1/9 ▼ >

Machine translation 3

#### 1. WO/2014/015096 PERFORMANCE MONITORING IN A GAS OIL SEPARATION PLANT

WO - 23 01 2014

Int.Class G05B 13/00 (?) Appl.No PCT/US2013/050998 Applicant SAUDI ARABIAN OIL COMPANY Inventor AMMINUDIN, Kamarul, A.

The invention provides a facility monitoring system and method of using the system that allows for prioritization of performance parameters to be improved based on deviations from target performance parameters. Improvement incentives are provided to users on a user interface such that the user appreciates the value of the improvement to be conducted.

#### 2. 101556457 DYNAMIC OPTIMIZING CONTROL METHOD FOR EFFICIENCY OF HIGH CAPACITY OIL TRANSFER PUMP

CN - 14 10 2009

Int.Class G05B 13/00 ? Appl.No 200910022550.2 Applicant Xi'an University of Technology Inventor Liu Jun

The invention discloses a dynamic optimizing control method for the efficiency of a high capacity oil transfer pump, comprising the following steps; firstly, the setting value of an oil transfer pump. system is assured, the actual output value of the oil transfer pump system is measured, a deviation value signal is inputted into a network controller, wherein, the deviation value is equal to the setting value deducts the actual output value; secondly, an output value is transmitted to the oil transfer pump system after being counted by the network controller, the change of a centrifugal pump parameter is realized, meanwhile the output value and the actual output value of the oil transfer pump system are jointly inputted into an identification network by the network controller, and the identification network is modified by a deviation value between the identification output value of the identification network and the actual output value, therefore, the identification output value is close to the actual output value; and finally, according to the deviation situation between the setting value and the identification output value and the relationship between efficiency and the actual output value, the parameter of the network controller is modified by a system optimization purpose process so as to realize dynamic optimizing control and cooperative control for the efficiency of the oil transfer pump system.

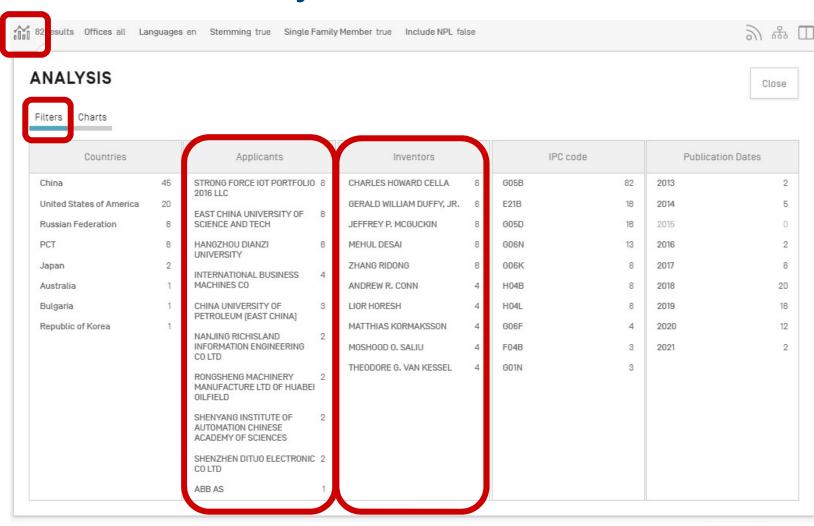
#### 3. 1218135 AUTOMATIC CONTROLLING INSTRUMENT FOR MECHANICAL OIL WELL

CN - 02 08 1999

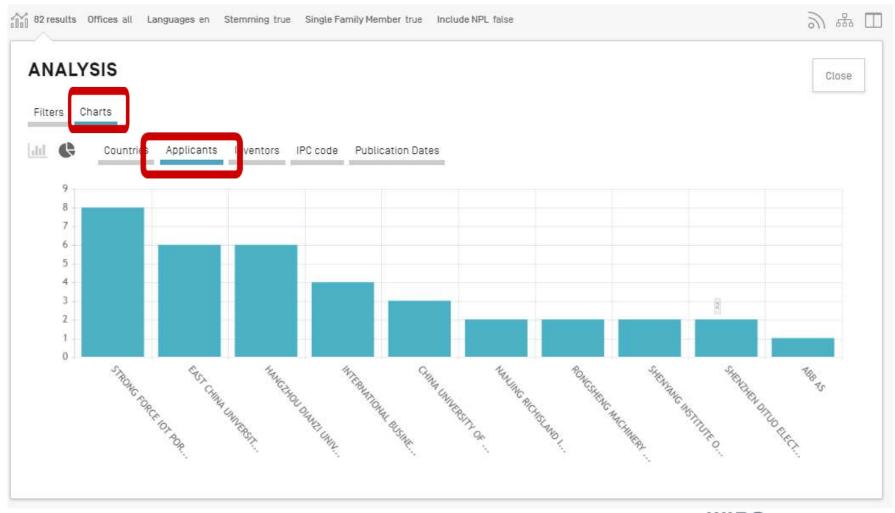
Int.Class G05B 13/00 (?) Appl.No 97108899.0 Applicant Ouyang Hu Inventor Ouyang Hu

A full-automatic control instrument for mechanical oil well is composed of power supply, timer, intermittence controller, display controller and speech prompt circuit. Said intermittence controller includes pressure protecting circuit which can control load circuit to work when well pressure is too high or too low, and the system runs safety. The timing signals of intermittence is provided by timer composed of crystal oscillator and signals of timer includes hour, minute and second, which can be chosen by system according to different requirements.

## Results: Analysis



# Results: Analysis



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### Results

#### 1. W0/2014/015096 PERFORMANCE MONITORING IN A GAS OIL SEPARATION PLANT

WO - 23.01.2014

Int.Class G05B 13/00 (?) Appl.No PCT/US2013/050998 Applicant SAUDI ARABIAN OIL COMPANY Inventor AMMINUDIN, Kamarul, A.

The invention provides a facility monitoring system and method of using the system that allows for prioritization of performance parameters to be improved based on deviations from target performance parameters. Improvement incentives are provided to users on a user interface such that the user appreciates the value of the improvement to be conducted.

#### 2. WO/2020/199665 MULTI-TARGET ONLINE OPTIMIZATION METHOD FOR CRUDE OIL BLENDING

WO - 08.10.2020

Int.Class G05B 13/04 (?) Appl.No PCT/CN2019/128928 Applicant EAST CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY Inventor QIAN, Feng

Disclosed is a multi-target online optimization method for crude oil blending. The method comprises the steps of: initializing parameters of a blending task; configuring an optimization cycle and target function weights, and configuring upper and lower limits of respective attribute indexes of blended crude oil, reserves of respective component oils, the maximum blending and refining-line flow rate of each component oil, and a unit mass cost of each component oil; acquiring, according to the preconfigured optimization cycle, attribute data of respective blending components and a tank bottom oil, and updating a reading on an oil dipstick at the tank bottom, the reserves of the respective component oils, and the remaining blending time of the present batch; and obtaining the optimal formula of each blending component in the current optimization cycle, and sending the same to a blending control system for execution.

#### 3. W0/2020/199666 BLENDING EFFECT PARAMETER CALCULATION METHOD FOR CRUDE OIL BLENDING

WO - 08.10.2020

Int.Class G05B 13/04 ② Appl.No PCT/CN2019/128971 Applicant EAST CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY Inventor QIAN, Feng

A blending effect parameter calculation method for crude oil blending. The method comprises the steps: first, performing operating parameter initialization; next, configuring an operating cycle and target function weighting; then, according to the operating cycle, acquiring a component oil characteristic, a blending formula and a characteristic of crude oil obtained by blending at a blending head; finally, using an adaptive differential evolution smart optimization algorithm to solve a blending effect parameter model.

#### 4. W0/2014/078830 PREDICTING THE OIL TEMPERATURE OF A TRANSFORMER

WO - 22.05.2014

Int.Class G05B 13/02 (?) Appl.No PCT/US2013/070898 Applicant ABB TECHNOLOGY AG Inventor DAGNINO, Aldo

Method and system for predicting an oil temperature of a transformer for a desired load and/or predicting a load that a transformer can support for a desired time. A machine learning algorithm is developed using historical data of a transformer. After the algorithm is developed, historical data corresponding to the transformer are input into the algorithm to develop a profile of the transformer describing how the temperature of oil within the transformer is expected to change as a function of a desired load. Using the profile, the oil temperature of the transformer is predicted for a desired load. In this way, a prediction is made as to whether and/or for how long a transformer may support a desired load before the oil temperature reaches a specified threshold and/or before the transformer fails due to the load.

## Record

### 1. W02014078830 - PREDICTING THE OIL TEMPERATURE OF A TRANSFORMER



PCT Biblio, Data Description Claims Drawings National Phase Patent Family Notices Documents

PermaLink Machine translation ▼

### Publication Number

W0/2014/078830

#### Publication Date

22.05.2014

#### International Application No.

PCT/US2013/070898

#### International Filing Date

19.11.2013

G05B 13/02 2008.01 H01F 27/40 2008.01

G05B 13/027 H01F 2027/408 H01F 27/12

#### Applicants

ABB TECHNOLOGY AG [CH]/[CH] Affolternstrasse 44 CH-8050 Zurich, CH

[AllExceptUS] DAGNINO, Aldo [CA]/[US] [US] CHEIM, Luiz [BR]/[US] [US] LIN, Lan [CN]/[US] [US]

PATEL, Poorvi [SE]/[US] [US]

#### Inventors

DAGNINO, Aldo CHEIM, Luiz LIN, Lan PATEL, Poorvi

Agents

#### Title

(EN) PREDICTING THE OIL TEMPERATURE OF A TRANSFORMER (FR) TRANSFORMATEUR DE PROFILAGE DE SYSTÈME D'ÉNERGIE

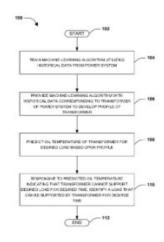
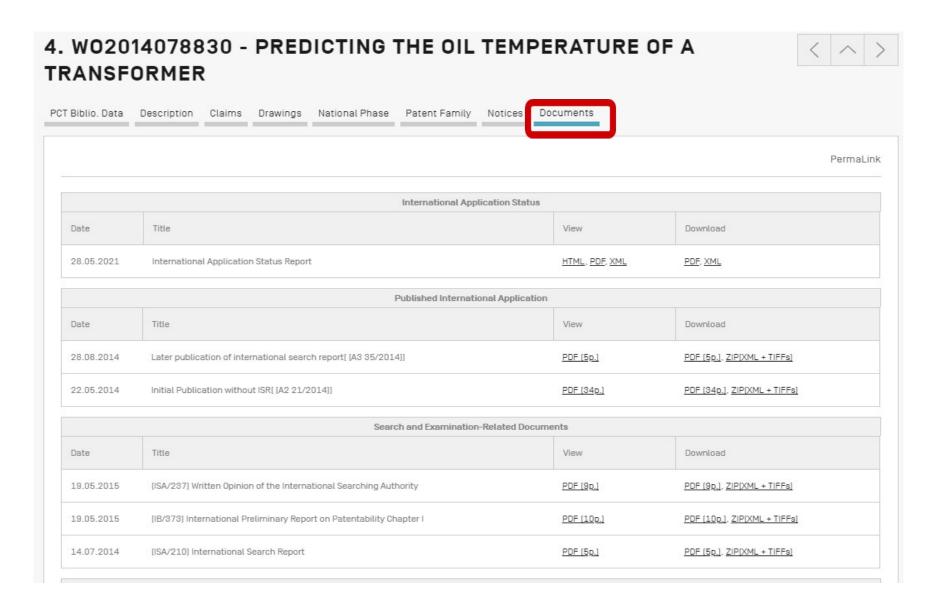


FIG. 1

#### Abstract

Method and system for predicting an oil temperature of a transformer for a desired load and/or predicting a load that a transformer can support for a desired time. A machine learning algorithm is developed using historical data of a transformer. After the algorithm is developed, historical data corresponding to the transformer are input into the algorithm to develop a profile of the transformer describing how the temperature of oil within the transformer is expected to change as a function of a desired load. Using the profile, the oil temperature of the transformer is predicted for a desired load. In this way, a prediction is made as to whether and/or for how long a transformer may support a desired load before the oil temperature reaches a specified threshold and/or before the transformer fails due to

## Record



## Documents: Application, search report

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau

(43) International Publication Date 22 May 2014 (22.05.2014)



(10) International Publication Number WO 2014/078830 A2

(51) International Patent Classification G05B 13/02 (2006.01)

(21) International Application Number:

PCT/US2013/070696

19 November 2013 (19.11.2013)

(25) Filing Language:

(26) Publication Language:

61/727,890 19 November 2012 (19:11:2012)

(71) Applicant (for all designated States except US): ABB TECHNOLOGY AG [CH/CH]; Affoltenstrasse 44, CH-

(72) Inventors; and

(71) Applicants (for US only): DAGNINO, Aldo [CA/US]; 105 Billingrath Turn Lane, Cary, NC 27519 (US). CHEIM, Lulz [BR/US]: 855 Mecauley Way, St.charles. MO 63303 (US). LIN, Lan [CN/US]; 25011 Avent Ferry Rd., Raleigh, NC 27606 (US). PATEL, Poorvi [SE/US]; Published: 2572 Hickory Manor Dr., Ballwin, MO 63011 (US).

(74) Agent: FISCHER, Marcus, A.; Cooper Legal Group, LLC, 6505 Rockside Road, Suite 330, Independence, OH 44131 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AF, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, OA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM,

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC MK MT NL NO PL PT RO RS SE SESK SM. TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: PROFILING TRANSFORMER OF POWER SYSTEM

(57) Abstract: Among other things, one or more techniques and/or systems are provided for predicting an oil temperature of a transformer for a desired load and/or predicting a load that a transformer can support for a desired time. A machine learning algorithm may be developed using historical data of a power system. After the algorithm is developed, historical data corresponding to the transformer may be input into the algorithm to develop a profile of the transformer. Using the profile, an oil temperature of the transformer may be estimated or predicted for a desired load. In this way, a prediction may be made as to whether and/or for how long a transformer may support a desired load before the oil temperature reaches a specified threshold and/or before the transformer fields due to the load.

#### INTERNATIONAL SEARCH REPORT

International application No PCT/US2013/070696

A. CLASSIFICATION OF SUBJECT MATTER INV. G05B13/02

ADD. H01F27/40

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) H01F G05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

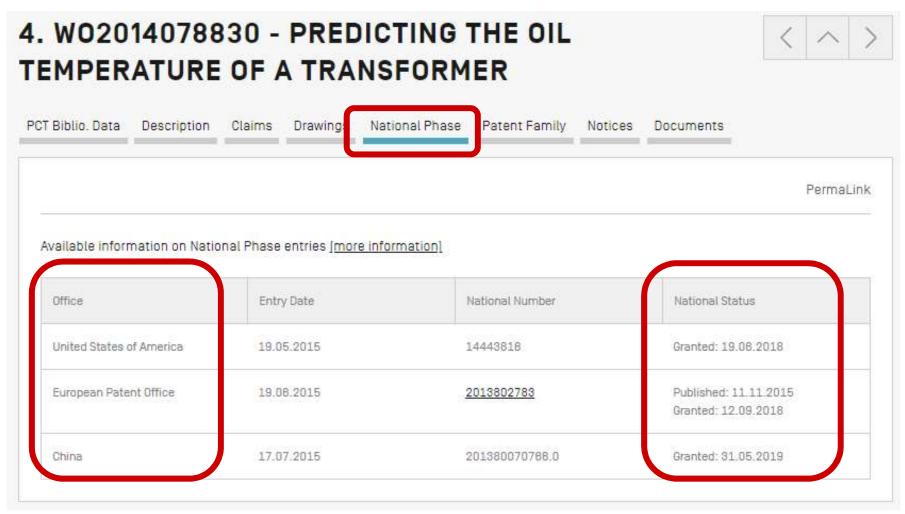
C. DOCUMENTS CONSIDERED TO BE RELEVANT

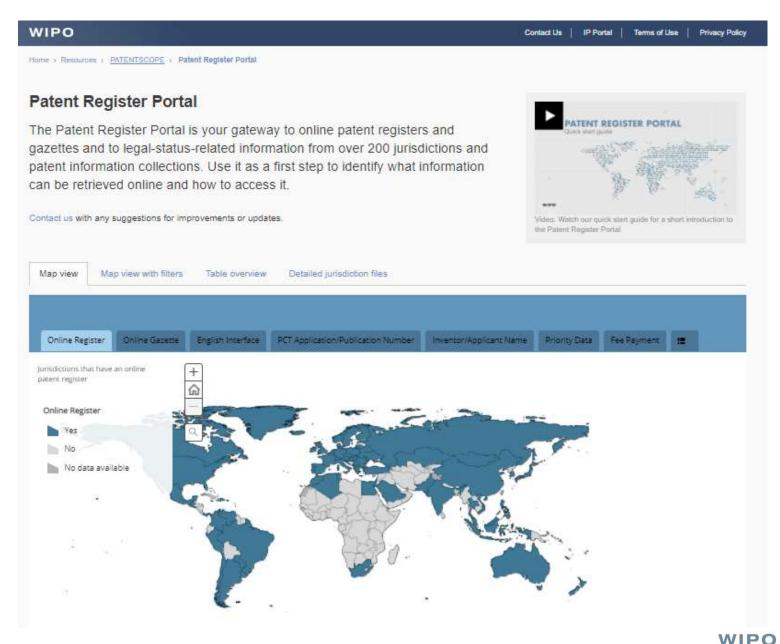
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	QING HE ET AL: "Prediction of Top-Oil Temperature for Transformers Using Neural Networks", IEEE TRANSACTIONS ON POWER DELIVERY, IEEE SERVICE CENTER, NEW YORK, NY, US, vol. 15, no. 4, 1 October 2000 (2000-10-01), XP011049941, ISSN: 0885-8977 the whole document	1-10, 18-20

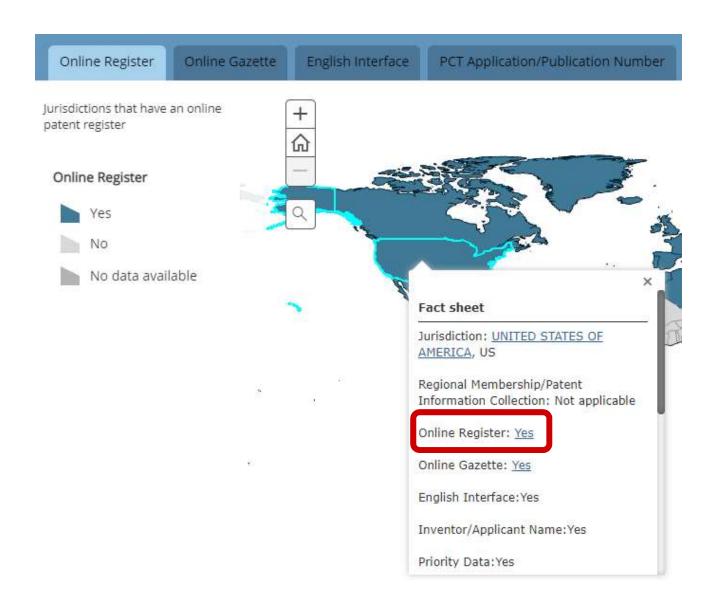
WIPO

INTELLECTUAL PROPERTY ORGANIZATION

## Record: National phase

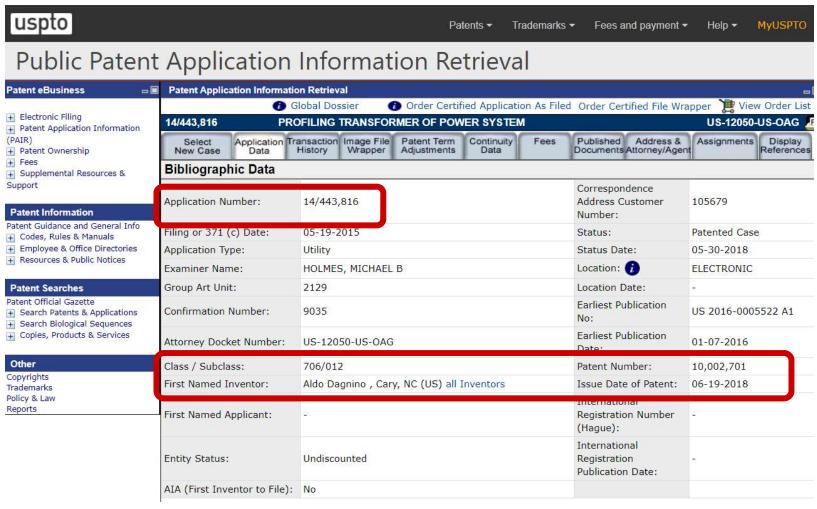






www.wipo.int/patent register portal

## Search in USPTO database



## Task breakdown

- Access the PATENTSCOPE search service
- Retrieve patent documents based on
  - keywords
  - classification
  - keywords and classification
- Analyze the whole set of results according to applicants and inventors
- Examine a specific patent document and its related documents within the results
- Keep up-to-date on new patent documents



## Results

IC:("G05B 13/00") AND EN TI:(oil)

1 82 results Offices all Languages en Stemming true Single Family Member true Include NPL false

Sort: Relevance ▼ Per page: 10 ▼ View: All ▼

< 1/9 ▼ >

Machine translation

WO - 23 01 2014

#### 1. WO/2014/015096 PERFORMANCE MONITORING IN A GAS OIL SEPARATION PLANT

Int.Class G05B 13/00 (?) Appl.No PCT/US2013/050998 Applicant SAUDI ARABIAN OIL COMPANY Inventor AMMINUDIN, Kamarul, A.

The invention provides a facility monitoring system and method of using the system that allows for prioritization of performance parameters to be improved based on deviations from target performance parameters. Improvement incentives are provided to users on a user interface such that the user appreciates the value of the improvement to be conducted.

#### 2. 101556457 DYNAMIC OPTIMIZING CONTROL METHOD FOR EFFICIENCY OF HIGH CAPACITY OIL TRANSFER PUMP

CN - 14 10 2009

Int.Class G05B 13/00 (2) Appl.No 200910022550.2 Applicant Xi'an University of Technology Inventor Liu Jun

The invention discloses a dynamic optimizing control method for the efficiency of a high capacity oil transfer pump, comprising the following steps: firstly, the setting value of an oil transfer pump. system is assured, the actual output value of the oil transfer pump system is measured, a deviation value signal is inputted into a network controller, wherein, the deviation value is equal to the setting value deducts the actual output value; secondly, an output value is transmitted to the oil transfer pump system after being counted by the network controller, the change of a centrifugal pump parameter is realized, meanwhile the output value and the actual output value of the oil transfer pump system are jointly inputted into an identification network by the network controller, and the identification network is modified by a deviation value between the identification output value of the identification network and the actual output value, therefore, the identification output value is close to the actual output value; and finally, according to the deviation situation between the setting value and the identification output value and the relationship between efficiency and the actual output value, the parameter of the network controller is modified by a system optimization purpose process so as to realize dynamic optimizing control and cooperative control for the efficiency of the oil transfer pump system.

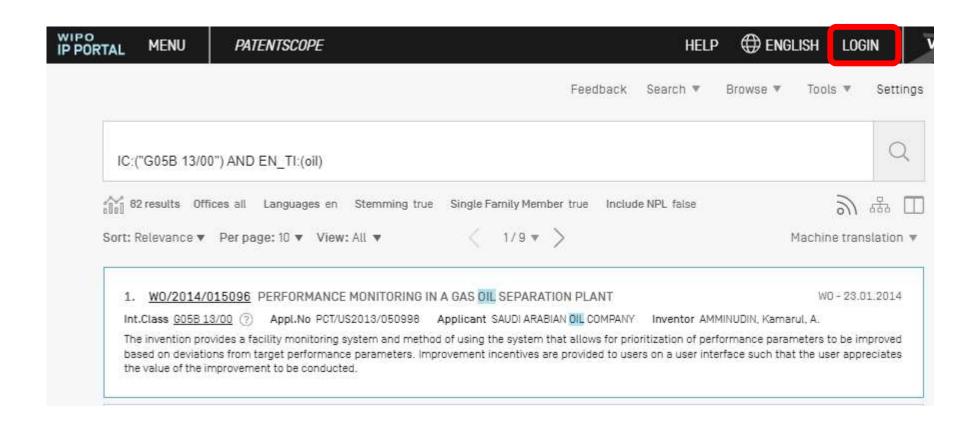
#### 3. 1218135 AUTOMATIC CONTROLLING INSTRUMENT FOR MECHANICAL OIL WELL

CN - 02 08 1999

Int.Class G05B 13/00 (?) Appl.No 97108699.0 Applicant Ouyang Hu Inventor Ouyang Hu

A full-automatic control instrument for mechanical oil well is composed of power supply, timer, intermittence controller, display controller and speech prompt circuit. Said intermittence controller includes pressure protecting circuit which can control load circuit to work when well pressure is too high or too low, and the system runs safety. The timing signals of intermittence is provided by timer composed of crystal oscillator and signals of timer includes hour, minute and second, which can be chosen by system according to different requirements.

## PATENTSCOPE Accounts



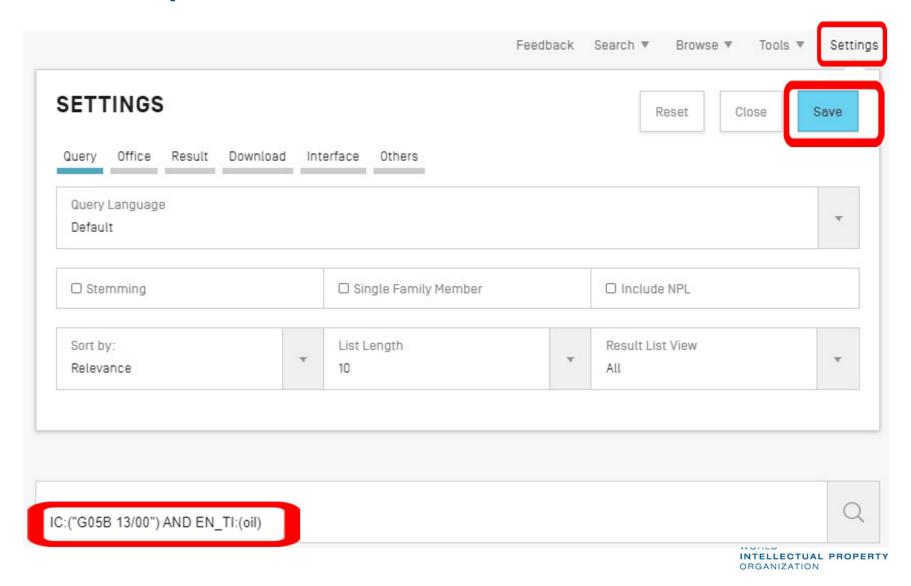


## PATENTSCOPE Accounts

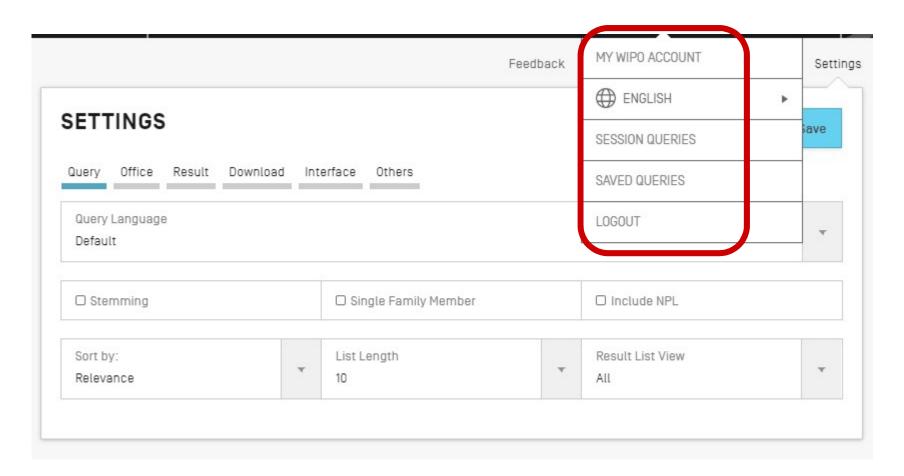
- Save queries
- View saved and session queries
- Export data
- Chemical Compounds Search



# Save queries and customization

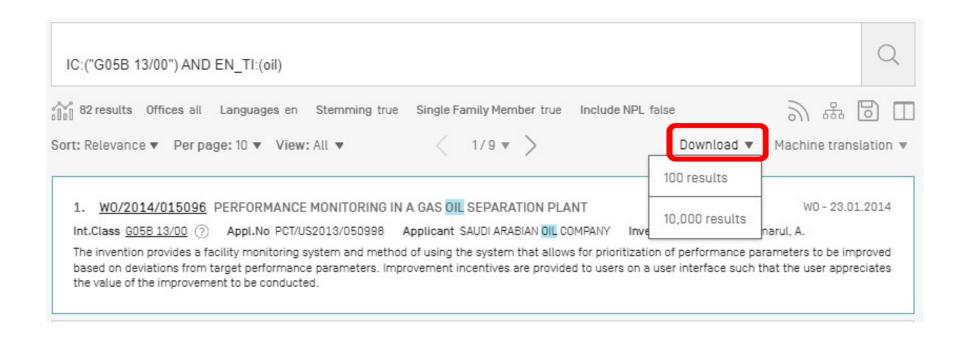


# View saved queries

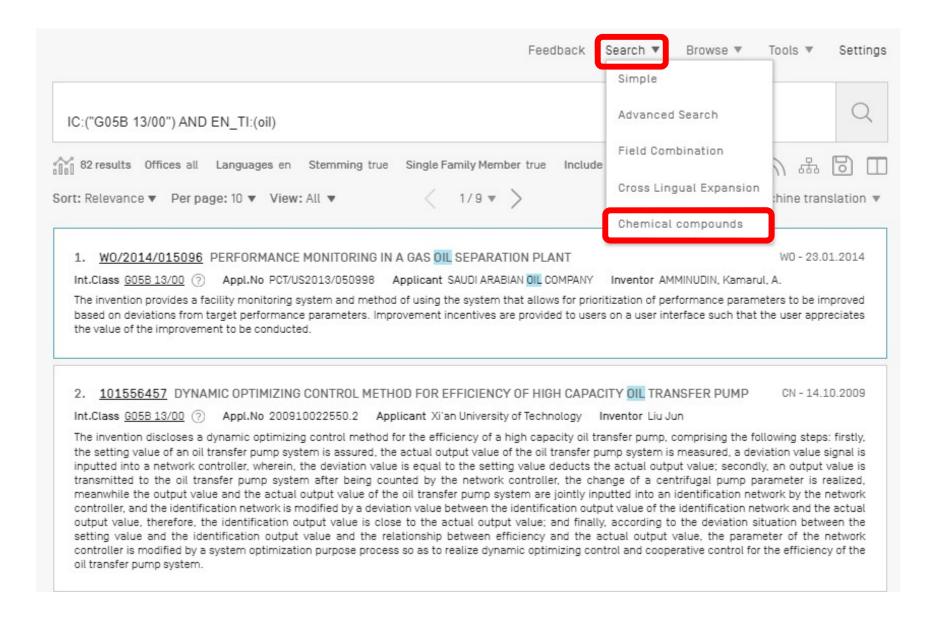




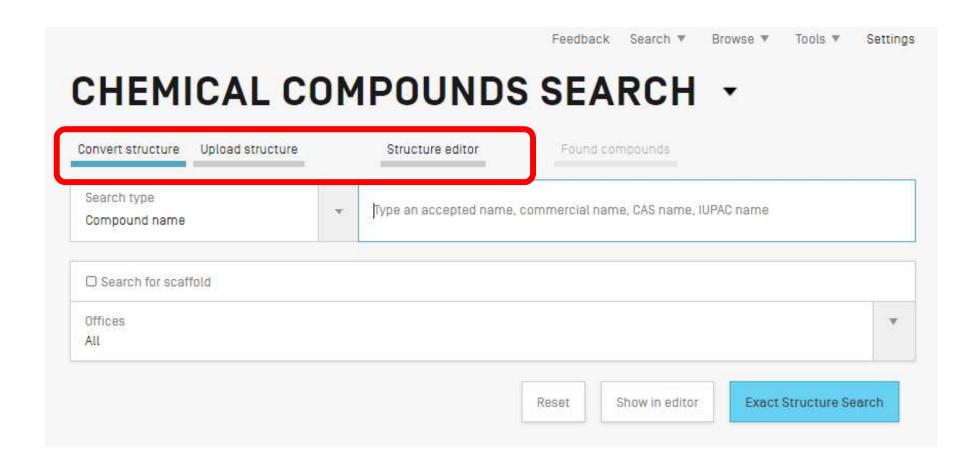
## **Export results**



## Chemical structure search interface

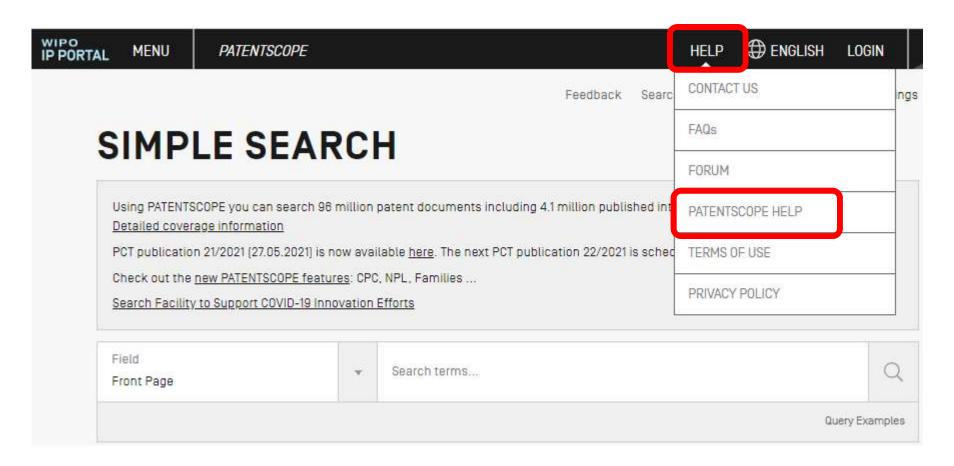


## Chemical structure search interface



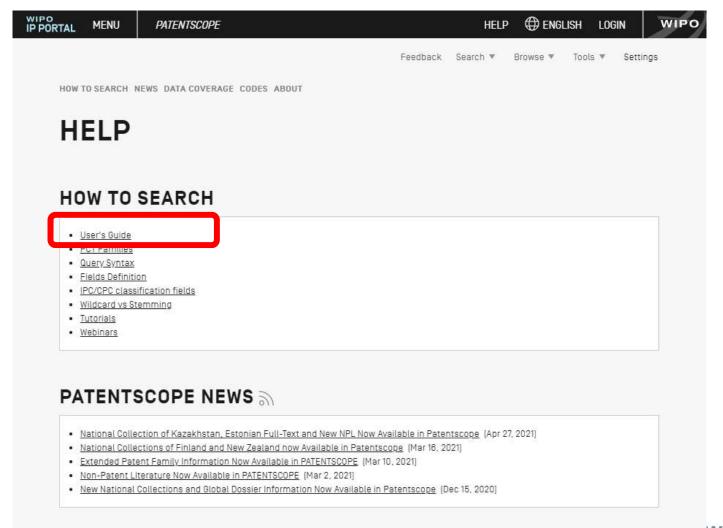


# PATENTSCOPE Help Page





## PATENTSCOPE User Guide



DATA COVERAGE

# PATENTSCOPE: Learning Resources

### Resources



### Video tutorials

Watch our video tutorials to learn how to use PATENTSCOPE. (Tutorials are available in English only.)



### Webinars

We offer free webinars to deliver information, training and updates on the PATENTSCOPE search system.

https://www.wipo.int/patentscope/en/

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