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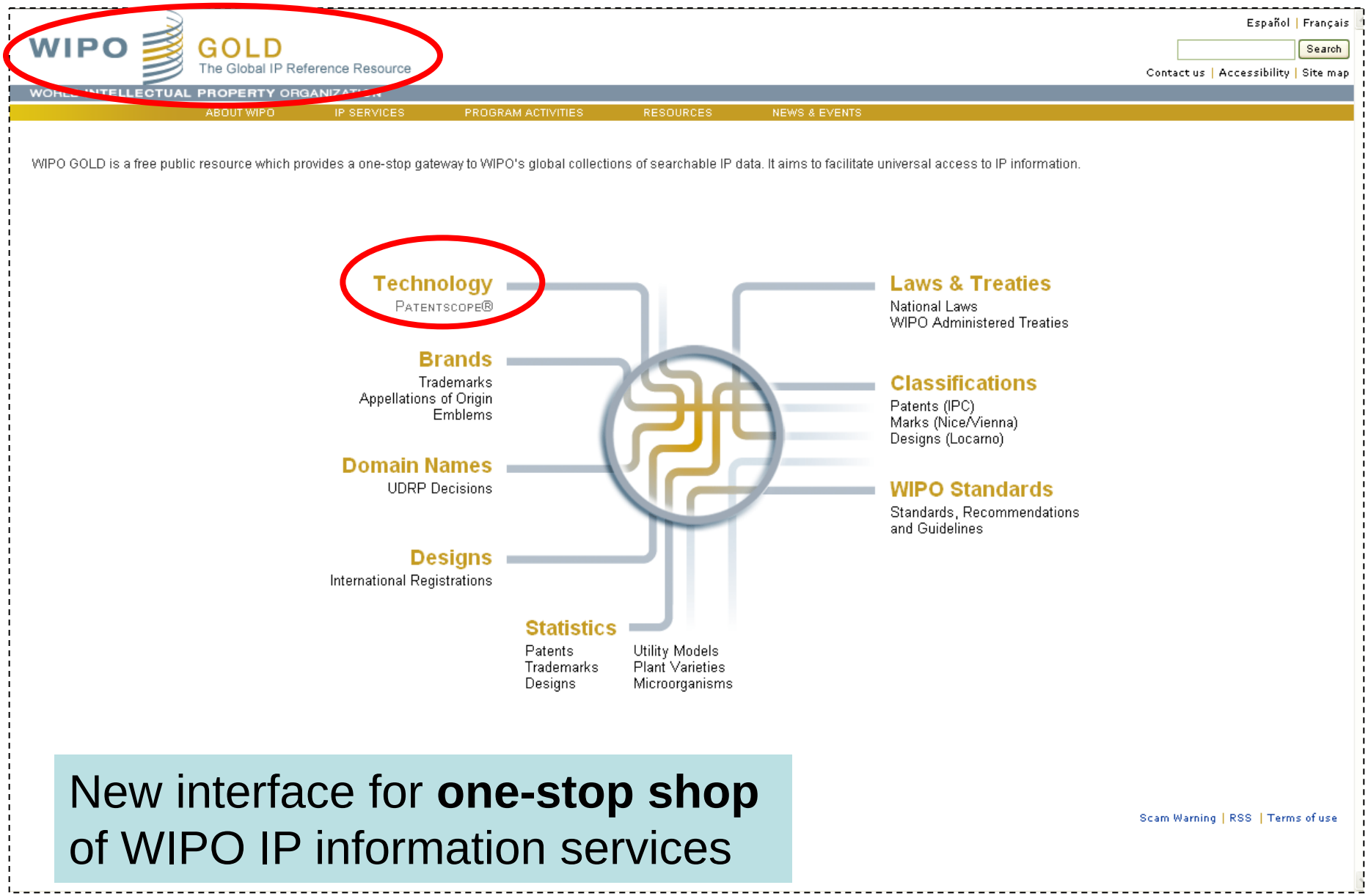
# Overview of WIPO's Patentscope Services

*Recent developments and efforts to secure and increase access to the "World of Technology"*

Gregory Sadyalunda, Project Manager
Infrastructure Modernization Division

Manila, Philippines
7 – 9 December
2010




New interface for **one-stop shop** of WIPO IP information services

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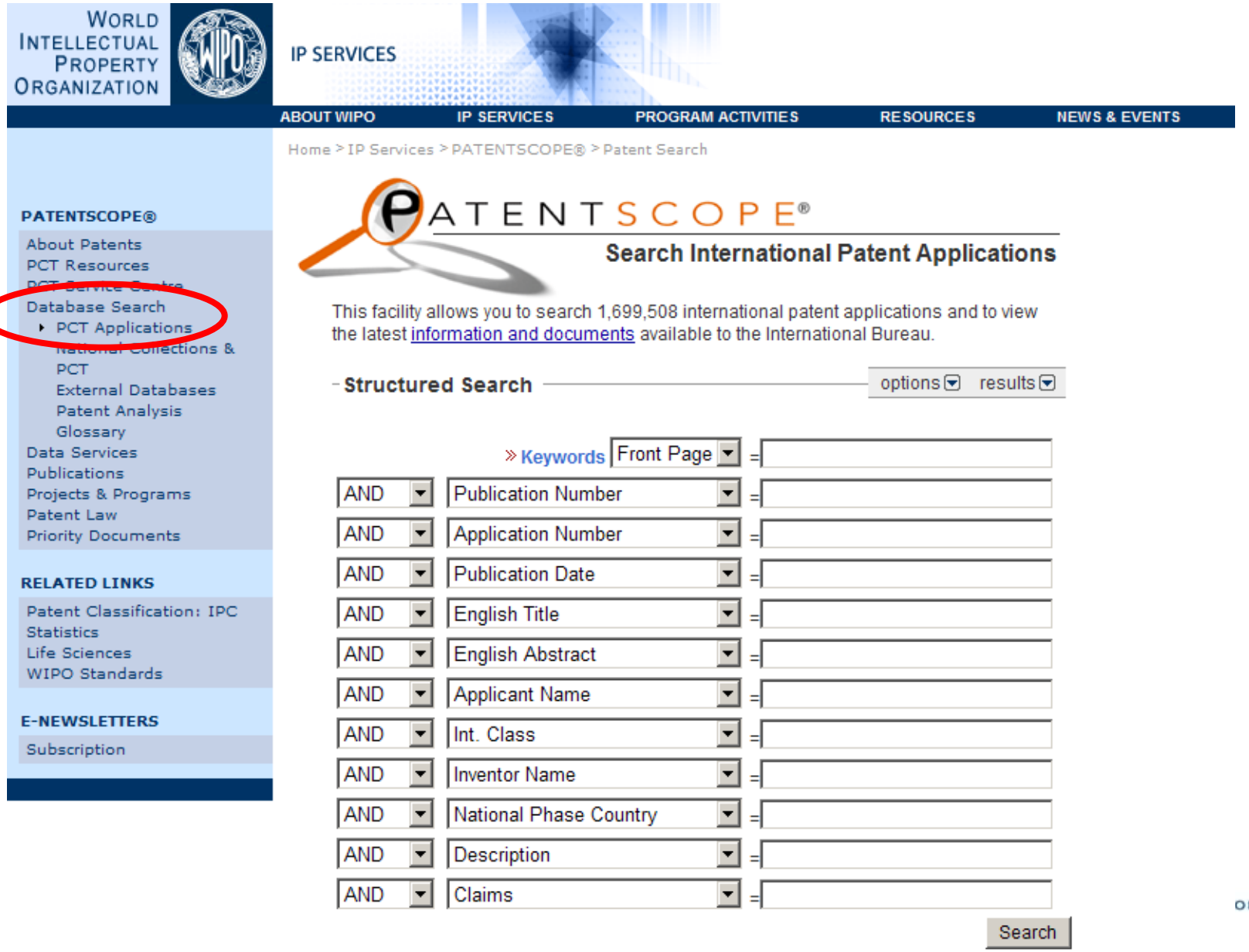
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# Traditional PATENTSCOPE® - Interface

- Full Text Search **PCT applications**
  - Description and/or Claims
  - Unlimited Keywords
  - Highlighted Keywords
- **National phase entry** data
- Related PCT procedural documents (**file inspection**)
- Graphical analysis tool
- RSS Notifications


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AND
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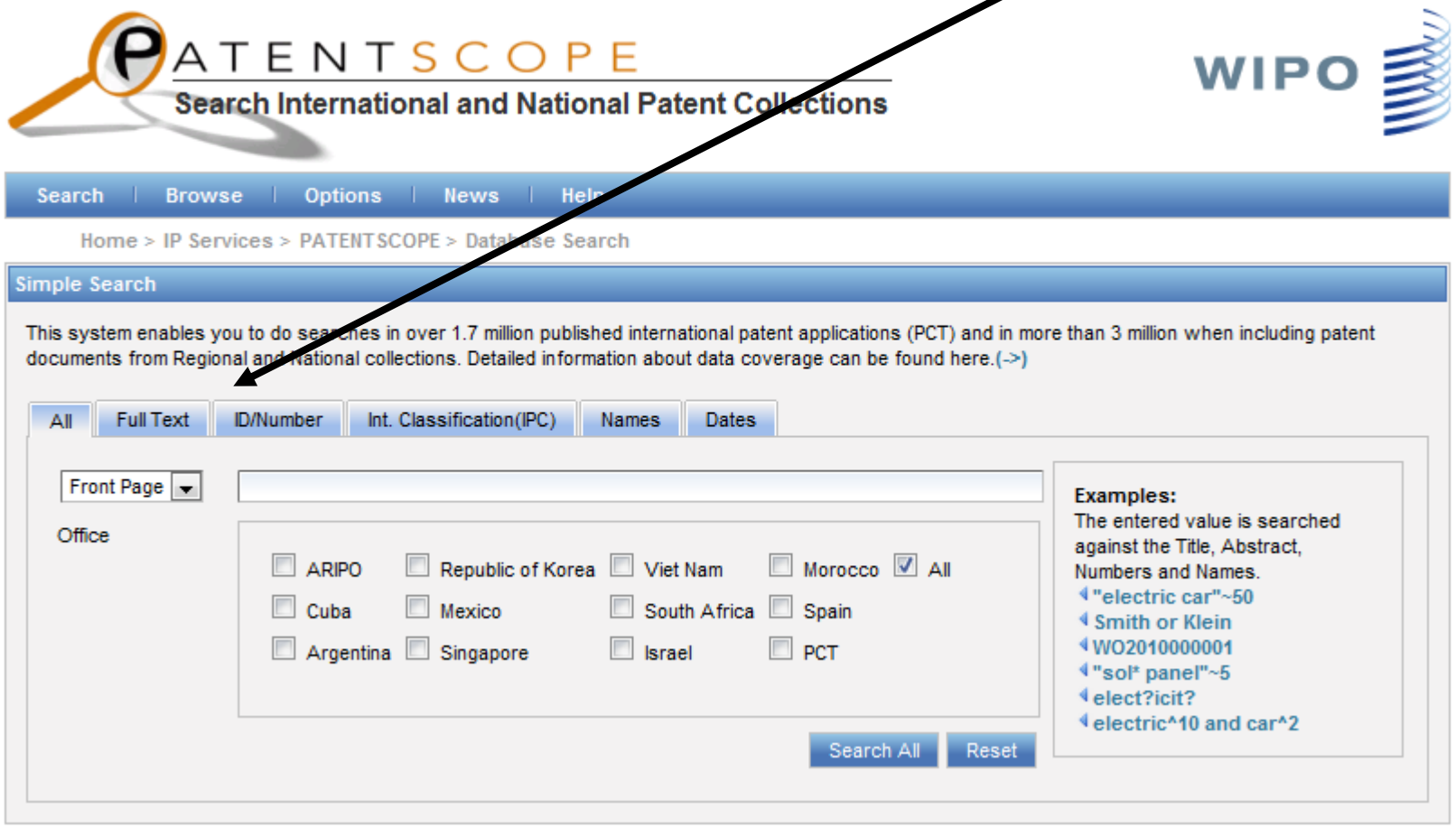
Application Number
Publication Date
English Title
English Abstract
Applicant Name
Int. Class
Inventor Name
National Phase Country
Description
Claims
Search

# What has changed lately ?

New **Simple Search** Interface

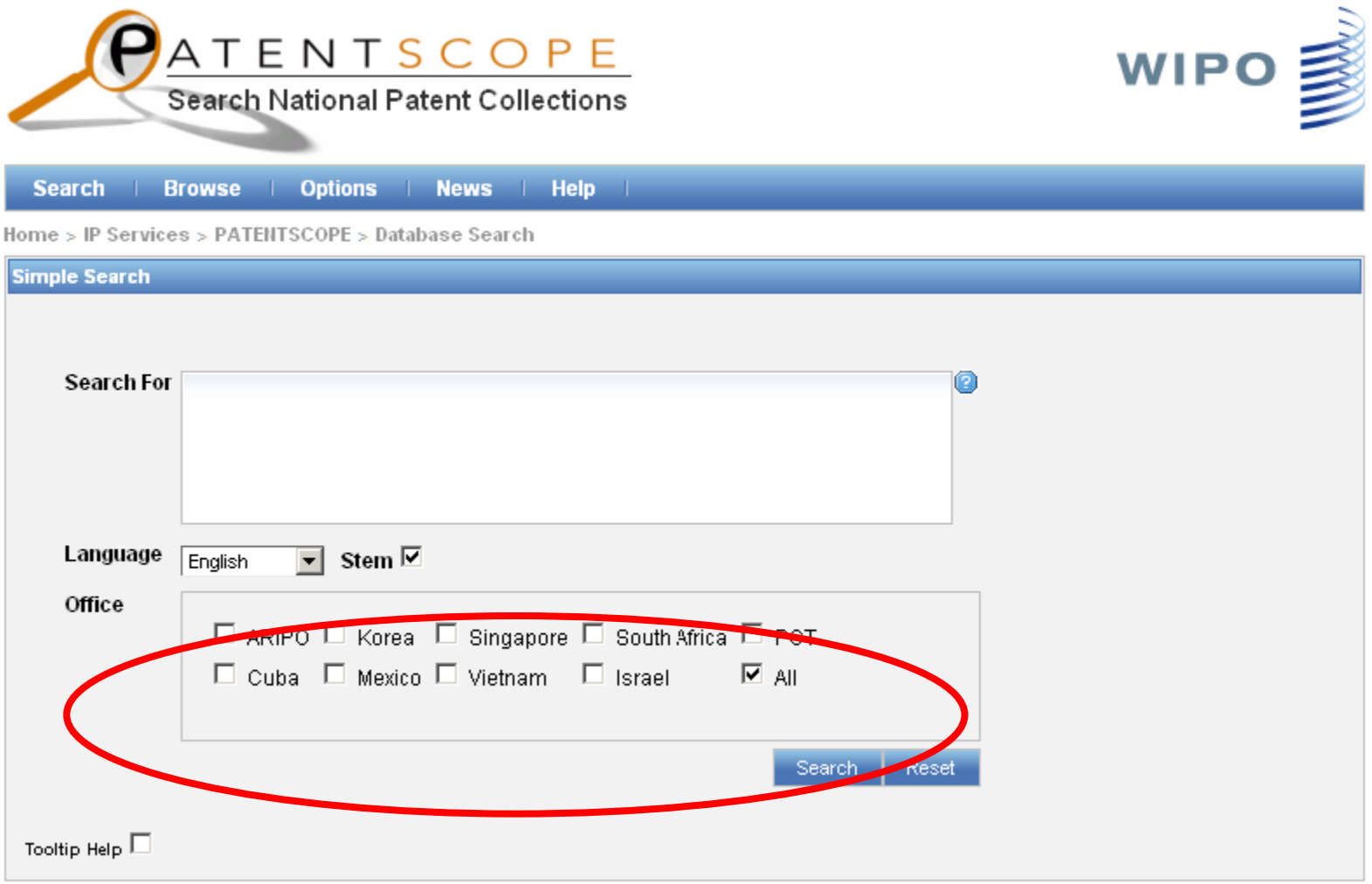
Reorganized menu



# New PATENTSCOPE®

- New search engine (open source) with new features:
  - more powerful search query engine (**Lucene**)
  - **word stemming** (electric, electrical, electricity, …)
  - search supported in multiple languages
  - **automatic statistical analysis** of results
  - better **relevance ranking**
  - **machine translation** of titles and abstracts
  - full text descriptions and claims with embedded images
- New enhanced coverage: PCT and national collections from **AR**, AP, CU, ES, KR, IL, MO, MX, SG, VN and ZA
- **Cross-lingual search** (CLIR)
- http://www.wipo.int/patentscope/search/en/search.jsf

# National Collections & PCT

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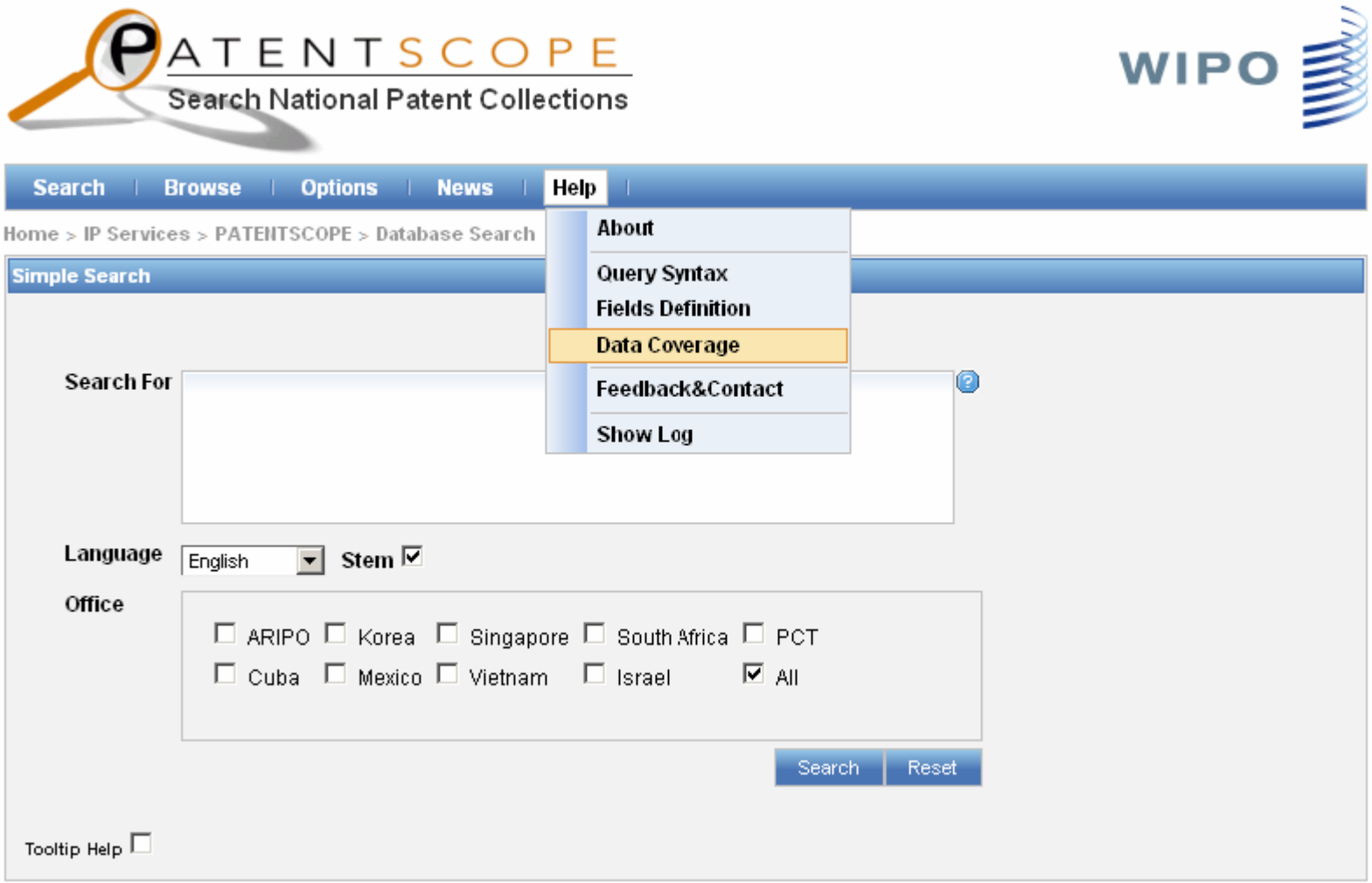
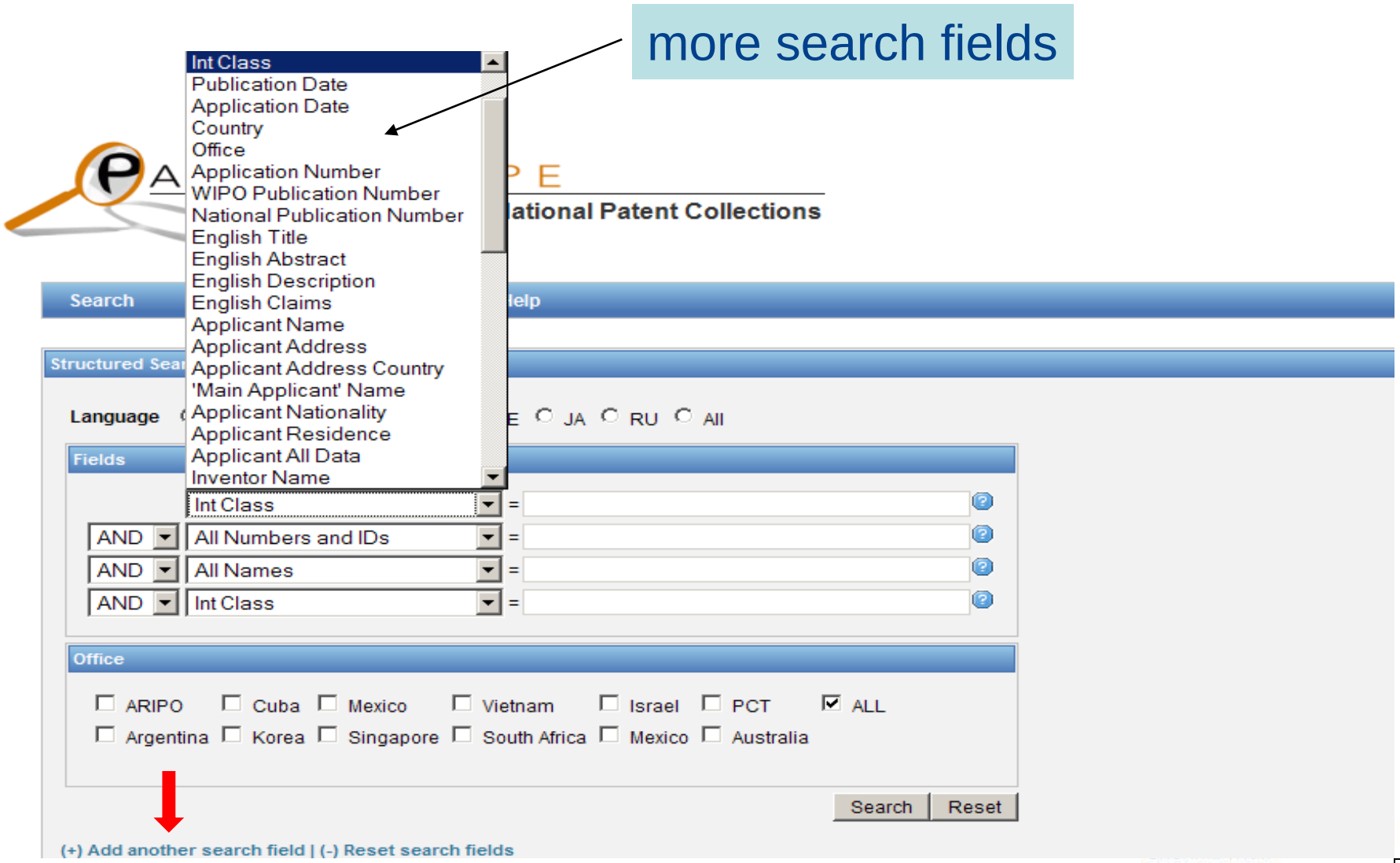
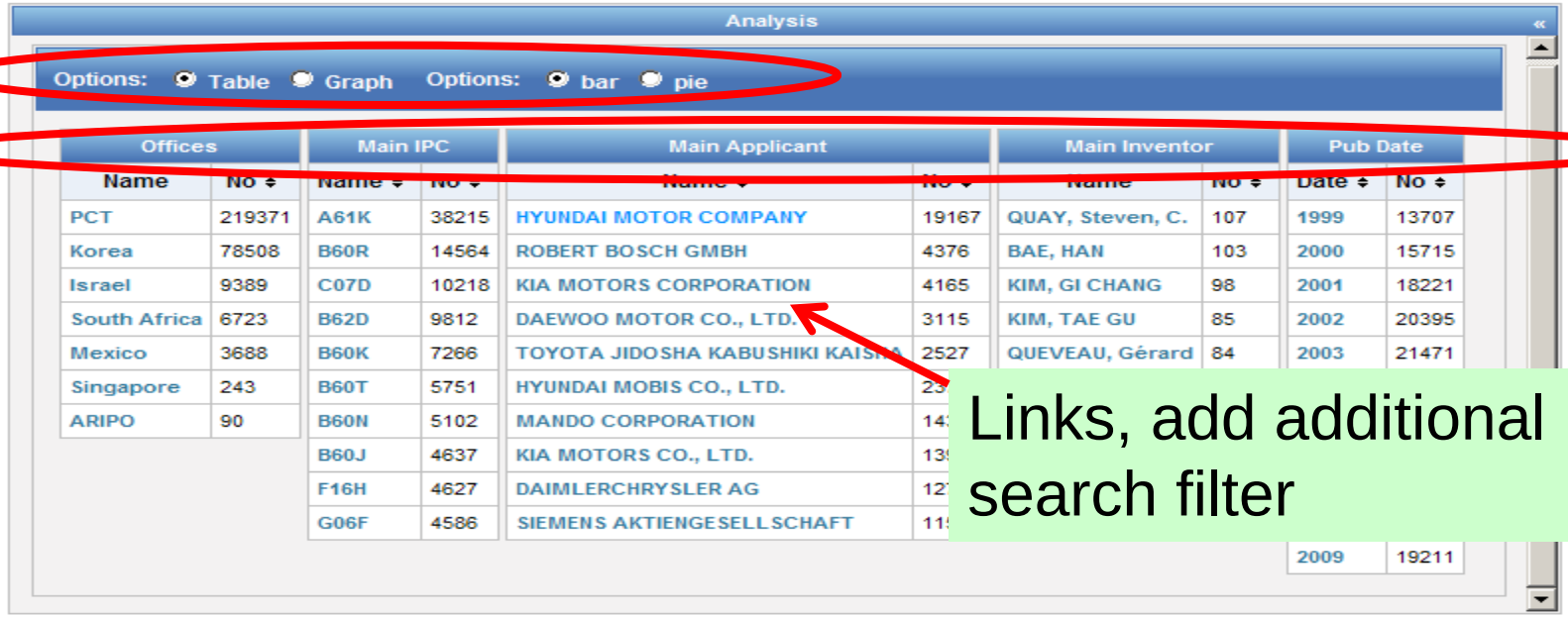
# National Collections & PCT



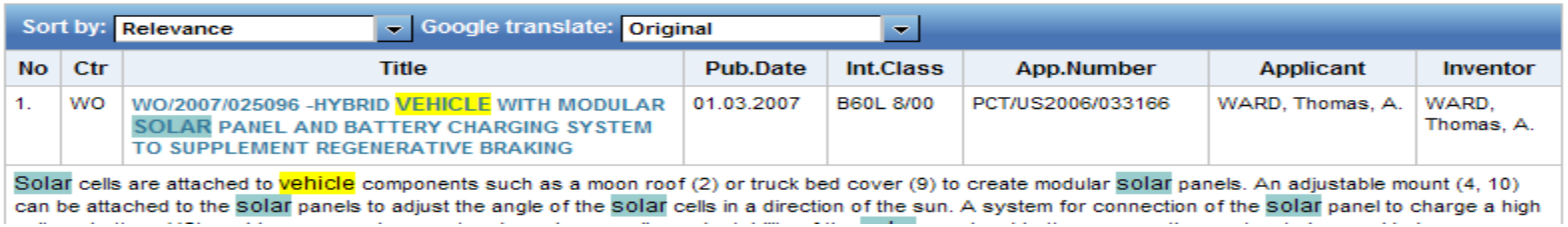
# Structured Search interface



# Search Results – Tabular Analysis Clusters




Links, add additional search filter




►Instant analysis of thousands of search results by **cluster** (e.g. office, IPC, applicant, inventor, and filing date)

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# Search Results – Tabular Analysis Clusters

Analysis

Options: Table Graph Options: bar pie

| Offices | | Main IPC | | Main Applicant | | Main Inventor | | Pub Date | |
|---|---|---|---|---|---|---|---|---|---|
| Name | No | Name | No | Name | No | Name | No | Date | No |
| PCT | 219371 | A61K | 38215 | HYUNDAI MOTOR COMPANY | 19167 | QUAY, Steven, C. | 107 | 1999 | 13707 |
| Korea | 78508 | B60R | 14564 | ROBERT BOSCH GMBH | 4376 | BAE, HAN | 103 | 2000 | 15715 |
| Israel | 9389 | C07D | 10218 | KIA MOTORS CORPORATION | 4165 | KIM, GI CHANG | 98 | 2001 | 18221 |
| South Africa | 6723 | B62D | 9812 | DAEWOO MOTOR CO., LTD. | 3115 | KIM, TAE GU | 85 | 2002 | 20395 |
| Mexico | 3688 | B60K | 7266 | TOYOTA JIDOSHA KABUSHIKI KAISHA | 2527 | QUEVEAU, Gérard | 84 | 2003 | 21471 |
| Singapore | 243 | B60T | 5751 | HYUNDAI MOBIS CO., LTD. | 2375 | OH, MAN JU | 84 | 2004 | 22378 |
| ARIPO | 90 | B60N | 5102 | MANDO CORPORATION | 1435 | JANG, JAE DEOK | 80 | 2005 | 26497 |
| | | B60J | 4637 | KIA MOTORS CO., LTD. | 1397 | BEVEC, Dorian | 79 | 2006 | 26822 |
| | | F16H | 4627 | DAIMLERCHRYSLER AG | 1278 | PETERS, Dan | 74 | 2007 | 27375 |
| | | G06F | 4586 | SIEMENS AKTIENGESELLSCHAFT | 1156 | KIM, YONG HUI | 71 | 2008 | 24707 |
| | | | | | | | | 2009 | 19211 |

Sort by: Relevance Google translate: Original

| No | Ctr | Title | Pub.Date | Int.Class | App.Number | Applicant | Inventor |
|---|---|---|---|---|---|---|---|
| 1. | WO | WO/2007/025096 -HYBRID VEHICLE WITH MODULAR SOLAR PANEL AND BATTERY CHARGING SYSTEM TO SUPPLEMENT REGENERATIVE BRAKING | 01.03.2007 | B60L 8/00 | PCT/US2006/033166 | WARD, Thomas, A. | WARD, Thomas, A. |

Solar cells are attached to vehicle components such as a moon roof (2) or truck bed cover (9) to create modular solar panels. An adjustable mount (4, 10) can be attached to the solar panels to adjust the angle of the solar cells in a direction of the sun. A system for connection of the solar panel to charge a high

►Instant analysis of thousands of search results by **cluster** (e.g. office, IPC, applicant, inventor, and filing date)

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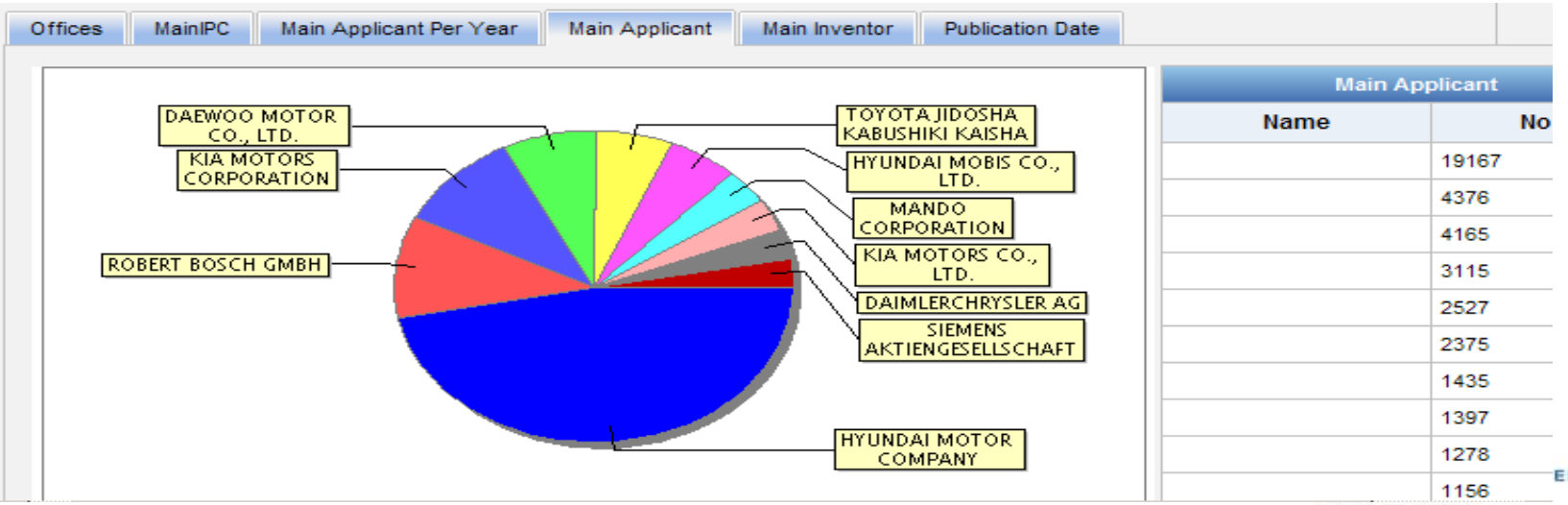
# Graphical Analysis – Bar or Pie Chart


Main IPC

| Name | No |
|---|---|
| A61K | 38215 |
| B60R | 14564 |
| C07D | 10218 |
| B62D | 9812 |
| B60K | 7266 |
| B60T | 5751 |
| B60N | 5102 |
| B60J | 4637 |
| F16H | 4627 |
| G06F | 4586 |

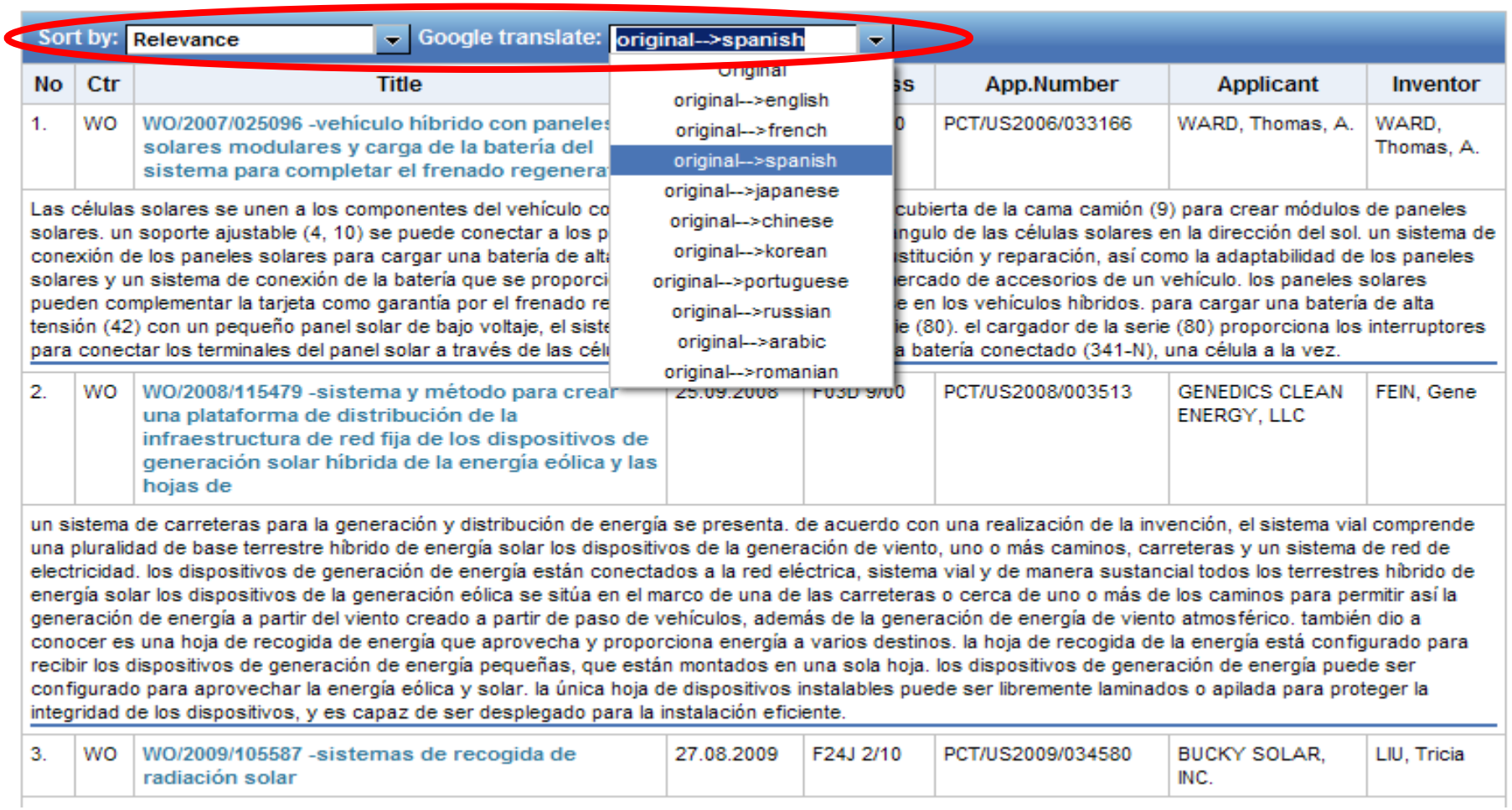



Main Applicant

| Name | No |
|---|---|
| | 19167 |
| | 4376 |
| | 4165 |
| | 3115 |
| | 2527 |
| | 2375 |
| | 1435 |
| | 1397 |
| | 1278 |
| | 1156 |

ERTY

# Search Results – Google translate




| No | Ctr | Title | | | App.Number | Applicant | Inventor |
|---|---|---|---|---|---|---|---|
| 1. | WO | WO/2007/025096 -vehículo híbrido con paneles solares modulares y carga de la batería del sistema para completar el frenado regenera | | | PCT/US2006/033166 | WARD, Thomas, A. | WARD, Thomas, A. |
| Las células solares se unen a los componentes del vehículo co cubierta de la cama camión (9) para crear módulos de paneles solares. un soporte ajustable (4, 10) se puede conectar a los p ngulo de las células solares en la dirección del sol. un sistema de conexión de los paneles solares para cargar una batería de alt stitución y reparación, así como la adaptabilidad de los paneles solares y un sistema de conexión de la batería que se proporci ercado de accesorios de un vehículo. los paneles solares pueden complementar la tarjeta como garantía por el frenado re e en los vehículos híbridos. para cargar una batería de alta tensión (42) con un pequeño panel solar de bajo voltaje, el siste ie (80). el cargador de la serie (80) proporciona los interruptores para conectar los terminales del panel solar a través de las cél a batería conectado (341-N), una célula a la vez. | | | | | | | |
| 2. | WO | WO/2008/115479 -sistema y método para crear una plataforma de distribución de la infraestructura de red fija de los dispositivos de generación solar híbrida de la energía eólica y las hojas de | 25.09.2008 | F03D 9/00 | PCT/US2008/003513 | GENEDICS CLEAN ENERGY, LLC | FEIN, Gene |
| un sistema de carreteras para la generación y distribución de energía se presenta. de acuerdo con una realización de la invención, el sistema vial comprende una pluralidad de base terrestre híbrido de energía solar los dispositivos de la generación de viento, uno o más caminos, carreteras y un sistema de red de electricidad. los dispositivos de generación de energía están conectados a la red eléctrica, sistema vial y de manera sustancial todos los terrestres híbrido de energía solar los dispositivos de la generación eólica se sitúa en el marco de una de las carreteras o cerca de uno o más de los caminos para permitir así la generación de energía a partir del viento creado a partir de paso de vehículos, además de la generación de energía de viento atmosférico. también dio a conocer es una hoja de recogida de energía que aprovecha y proporciona energía a varios destinos. la hoja de recogida de la energía está configurado para recibir los dispositivos de generación de energía pequeñas, que están montados en una sola hoja. los dispositivos de generación de energía puede ser configurado para aprovechar la energía eólica y solar. la única hoja de dispositivos instalables puede ser libremente laminados o apilada para proteger la integridad de los dispositivos, y es capaz de ser desplegado para la instalación eficiente. | | | | | | |
| 3. | WO | WO/2009/105587 -sistemas de recogida de radiación solar | 27.08.2009 | F24J 2/10 | PCT/US2009/034580 | BUCKY SOLAR, INC. | LIU, Tricia |

►Option to translate titles and abstracts

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# More powerful search language

- **Boolean operators**

- AND (Default)
  electric car = electric AND car ≠ "electric car"
- +
  +electric +car = electric car
- OR
- NOT
- ANDNOT
- -

# More powerful search language

- **Fields, e.g.**
- EN_CL  > English claims
  EN_CL:"solar heating"
- FR_DE  > French description
  FR_DE/chauffage
- Default: EN_ALL
- valid only for immediately following term

- **Date searches**
- DP:01.02.2010
- DP:20100201
- DP/201002

# More powerful search language

- **Grouping/Nesting**

- ()
- For fields and operators:

  EN_CL:("fuel cell" "electric vehicle") ≠
  EN_CL:"fuel cell" "electric vehicle"

  CL:(rasor  OR rasierer) AND (battery OR batterie)
  CL:((rasor  OR rasierer) AND (battery OR batterie))

# More powerful search language

- **Wildcards**

- zero or one character: **?**
- any number of characters: ***
- te?t

  > test, text
- electric*

  > electricity, electrical,..
- no left truncation !
- induces non-stemming of respective term

# More powerful search language

- **Ranges**
  - inclusive: [...TO...]
  - e.g.: DP:[01.01.2009 TO 01.01.2010]
    DP:[20090101 TO 20100101]
  - exclusive: {...TO...}

- **Empty fields**
  - DP:2010 NOT IC:[A* TO H*]

# Proximity searching – using “~”

EN_TI:“battery car”~4

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4. | KR | 100167497 -CIRCUIT FOR SAVING CAR PHONE BATTERY USING CAR BATTERY | 28.09.1998 | H04B 7/26 | 1019950062446 | DAEWOO MOTOR CO., LTD. | KIM, TAE GU |

PURPOSE: A circuit for saving a car phone battery using a car battery is provided to reduce power consumption of a car phone battery by using a car battery instead of the car phone battery.

CONSTITUTION: A circuit for saving a car phone battery using a car battery comprises a first relay(8) a voltage distributor(9), a second relay(10), and a car battery(11). The first relay is connected between a resistance(8) and a hook switch(1) to receive a supply power from a car battery instead of a car phone battery. The voltage distributor connected between the first relay and the car battery to provide a supply power of 3 volt to a car phone circuit. The second relay is connected between the relay and a dial IC to provide the supply power of the car battery to the dial IC. The car battery provides the supply power to the car phone circuit when the second relay is switched to a terminal of the first relay.



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5. | WO | WO/1987/002512 -SOLAR CAR BATTERY | 23.04.1987 | B60J 1/00 | PCT/RO1985/000002 | INTREPRINDEREA DE CALCULATOARE ELECTRONICE | DOICARU, Vladimir |

The patent refers to the duplex windscreen which contains a solar cells chain, 2 or 3 inches, that are injecting the electrical current to different car electrical consummers as air conditioning, refrigerator, ventilator, radio-telephone station, printer for cellular radio. The system gives maximum performances as voltage at peak power 17.5V and current at peak power between 0.8-1.6A as function of insolation, temperature, altitude etc. The solar cells chain internal resistor is used as a radio car antenna or a burglar alarm antenna using two inductances (L1 and L2) and a condenser (C) which allow the high frequency and DC component separation.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8. | WO | WO/2002/022388 -BATTERY POWERED SHUTTLE CAR | 21.03.2002 | E21F 13/02 | PCT/US2001/028369 | PHILLIPS MACHINE SERVICE, INC. | ALLEN, Claude, R. |

A battery powered shuttle car (10) incorporates features and components that facilitate use and operation and effect efficient application in a mining environment. The shuttle car (10) incorporates at least one battery (20) that is secured to the vehicle frame (11) between one of a left front wheel (17) and a left rear wheel (17) or the right front wheel (17) and the right rear wheel (17). A battery change-over mechanism (51) facilitates battery replacement. Additionally, the shuttle car (10) may be provided with an integral discharge end (81) having a substantially fixed height (82). A full load indicator mechanism

# Relevance weighting – using "^"

"air condition" vehicle solar

Result List. Sort by: Relevance Pub Date App Date

| No | Ctr | Title | Pub.Date | Int.Class | App.Number | Applicant |
|---|---|---|---|---|---|---|
| 1. | WO | 2007025096-HYBRID VEHICLE WITH MODULAR SOLAR PANEL AND BATTERY CHARGING SYSTEM TO SUPPLEMENT REGENERATIVE BRAKING | 01.03.2007 | B60L 8/00 | US2006033166 | WARD, Thomas, A. |

Solar cells are attached to vehicle components such as a moon roof (2) or truck bed cover (9) to create modular solar panels. An adjustable mount (4, 10) can be attached to the solar panels to adjust the angle of the solar cells in a direction of the sun. A system for connection of the solar panel to charge a high voltage battery (42) enables easy replacement and repair, as well as adaptability of the solar panel and battery connection system to be provided as an aftermarket component for a vehicle. The solar panels can supplement charge provided by regenerative braking, typically used in hybrid vehicles. To charge a high voltage battery (42) with a small low voltage solar panel, the system includes a series charger (80). The series charger (80) provides switches to connect solar panel terminals across individual series connected battery cells (341-n), one cell at a time.

| | | | | | | |
|---|---|---|---|---|---|---|
| 2. | WO | 2005034656-PROCEDURE AND FACILITY FOR PROCESSING AGRICULTURAL PRODUCE, ESPECIALLY FRUITS, AND SOLAR COLLECTOR, PRE-DRIER, GRINDING PLANT, SECONDARY DRIER AND AIR-CONDITIONING PLANT ESPECIALLY FOR THE FACILITY | 21.04.2005 | B02C 9/04 | HU2004000067 | CSORBA, István |

In the course of the procedure the agricultural produce - after it is prepared for drying, especially after it is sorted and/or washed and/or chopped in a given case - is dried, and powdered final product is made from the dried produce. The procedure is based on that the produce is predried using heat gained from solar collector(s) (12), and then it is powdered by air-jet grinding; and the powdered product is submitted to secondary drying. The facility has drying and grinding units, and it is based on that - it has one or more decentralised processing units (2), which contain a fix indoor drying equipment (7) and - in a given case - outdoor mobile drying equipment, and - it has a centralised processing unit (11) provided with an air-jet grinding plant and secondary dryer (19) and with a compressor connected to this equipment. Also the facility has solar collectors (12) belonging to the processing units (2; 11), for the purpose of producing hot air that can be used for the drying operations, for making hot water for use and/or for heating the building.

| | | | | | | |
|---|---|---|---|---|---|---|
| 3. | WO | 2007023340-VEHICULAR AIR CONDITIONING SYSTEM AND AIR CONDITIONING METHOD | 01.03.2007 | B60H 1/00 | IB2006002078 | TOYOTA JIDOSHA KABUSHIKI KAISHA |

When there is a command for pre-air conditioning to be performed, an inlet switches to an inside air recirculating mode and a compressor and a blower fan are driven to blow air that was drawn in toward a lower portion in a vehicle cabin (130 to 136). Then when a door switch detects that an occupant may get into the vehicle (100, 102), air is blown from an outlet toward the upper portion in the vehicle cabin while the inlet remains in the inside air recirculation mode (114 to 124). That is, cooled air in the lower portion in the vehicle cabin is drawn in, cooled, and then blown toward the occupant. Also, when starting the pre-air conditioning, the battery state-of-charge is detected and pre-air conditioning is prohibited if the battery state-of-charge is less than a predetermined value (116, 126, 128).

| | | | | | | |
|---|---|---|---|---|---|---|
| 4. | WO | 2006076792-TRANSPORTATION SYSTEM WITH SELF-ELEVATING VEHICLES | 27.07.2006 | B61B 13/04 | CA2006000050 | PRUTTON, Richard |

A transportation vehicle, system and method are disclosed. A transportation region is accessible by a first network of roadways, generally at grade, and a second network of guideways, generally not at grade. A dual-purpose vehicle is adapted to alternately operate along the guideways and park at grade, optionally operating along the roadways as well. The vehicle is adapted to operate on the roadways analogously to a conventional automobile; however, the vehicle also includes means for releasably engaging the guideways for travel there along. Desirably, the outside surface of the vehicle may include one or more solar cells for converting solar energy into electrical energy to power the

"air condition" vehicle^5 solar

Result List. Sort by: Relevance Pub Date App Date

| No | Ctr | Title | Pub.Date | Int.Class | App.Number | Applicant |
|---|---|---|---|---|---|---|
| 1. | WO | 2008154088-SYSTEM AND METHOD FOR USING VEHICLE ATTRIBUTES TO IDENTIFY A VEHICLE UNDER SERVICE | 18.12.2008 | G06F 7/40 | US2008062491 | SNAP-ON INCORPORATED |

A system and method directed to determining vehicle attributes associated with a vehicle under service so as to eliminate the need for a user of a vehicle service tool to enter the vehicle attributes or to reduce the quantity of vehicle attributes that the user has to enter in order for the vehicle service tool to identify the vehicle under service and, in turn, to retrieve vehicle reference data associated with the vehicle under service. The vehicle service tool may include vehicle service applications for servicing various systems and/or components of the vehicle under service. A vehicle service application selected by the user may function as a requestor application that queries other applications and/or data storage for the vehicle attributes needed by the requestor application to identify the vehicle under service.

| | | | | | | |
|---|---|---|---|---|---|---|
| 2. | WO | 2006076792-TRANSPORTATION SYSTEM WITH SELF-ELEVATING VEHICLES | 27.07.2006 | B61B 13/04 | CA2006000050 | PRUTTON, Richard |

A transportation vehicle, system and method are disclosed. A transportation region is accessible by a first network of roadways, generally at grade, and a second network of guideways, generally not at grade. A dual-purpose vehicle is adapted to alternately operate along the guideways and park at grade, optionally operating along the roadways as well. The vehicle is adapted to operate on the roadways analogously to a conventional automobile; however, the vehicle also includes means for releasably engaging the guideways for travel there along. Desirably, the outside surface of the vehicle may include one or more solar cells for converting solar energy into electrical energy to power the vehicle, excess electrical energy being available for supply to an electrical distribution system via the guideway to help power the network or other vehicles, even when the supplying vehicle is not being operated for transportation.

| | | | | | | |
|---|---|---|---|---|---|---|
| 3. | WO | 2003036192-FLUID HEAT EXCHANGER ASSEMBLY | 01.05.2003 | F01P 9/06 | US2002032100 | VAN WINKLE, John |

A vehicle system for transferring thermal energy in relation to a vehicle fluid (32-36, 94) comprising at least one thermoelectric device (10), having at least two surfaces (12,14), concurrently dissipating thermal energy on a warmer surface and absorbing thermal energy on a cooler surface, mounted in proximity to a contained vehicle fluid, and providing thermal communication between the contained vehicle fluid and at least one of the warmer and cooler surfaces of the thermoelectric device, wherein the cooler surface of the thermoelectric device is adjacent to a vehicle fluid reservoir (94), and wherein the vehicle system is mounted such that the cooler surface of the thermoelectric device is in thermal communication with the vehicle fluid reservoir, wherein the vehicle fluid reservoir includes a thermal energy transfer rod (102), extending at least partially therein, which is in thermal communication with the cooler surface of the thermoelectric device.

| | | | | | | |
|---|---|---|---|---|---|---|
| 4. | WO | 2007025096-HYBRID VEHICLE WITH MODULAR SOLAR PANEL AND BATTERY CHARGING SYSTEM TO SUPPLEMENT REGENERATIVE BRAKING | 01.03.2007 | B60L 8/00 | US2006033166 | WARD, Thomas, A. |

Solar cells are attached to vehicle components such as a moon roof (2) or truck bed cover (9) to create modular solar panels. An adjustable mount (4, 10) can be attached to the solar panels to adjust the angle of the solar cells in a direction of the sun. A system for connection of the solar panel to charge a high voltage battery (42) enables easy replacement and repair, as well as adaptability of the solar panel and battery connection system to be provided as an aftermarket component for a vehicle. The solar panels can supplement charge provided by regenerative braking, typically used in hybrid vehicles. To charge a high voltage battery (42) with a small low voltage solar panel, the system includes a series charger (80). The series charger (80) provides switches to connect solar panel terminals across individual series connected battery cells (341-n), one cell at a

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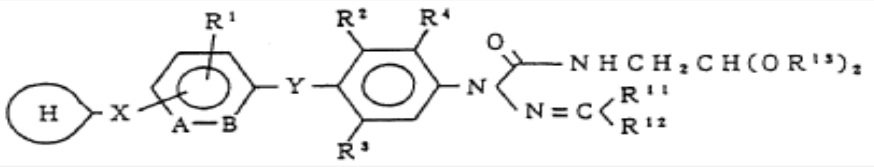
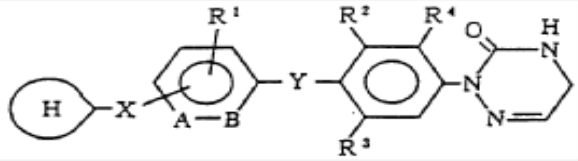
# Description - Embedded Images

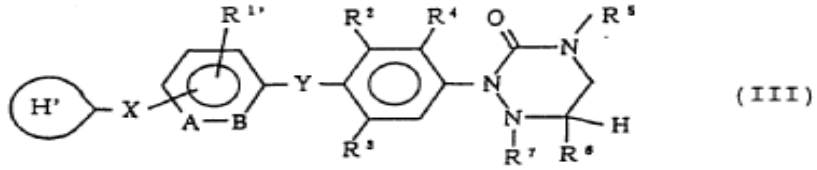
described in [13] above or a salt thereof, which comprises subjecting a compound of the formula: 4
11



wherein R . 11 R and R have the same meanings as defined in [12] above, and the other symbols have the same meanings as defined in [13] above; or a salt thereof to a cyclization reaction to provide a compound of the formula:

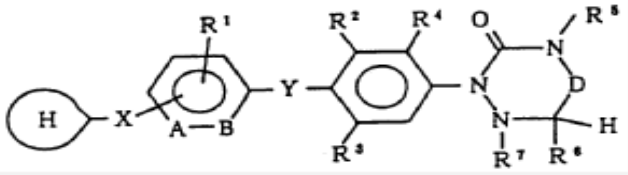


wherein each symbol has the same meaning as defined in [13] above, or a salt thereof, and if necessary, subjecting the resulting compound to a reduction reaction or a substitution reaction,
[15] a compound represented by the formula:



(III)

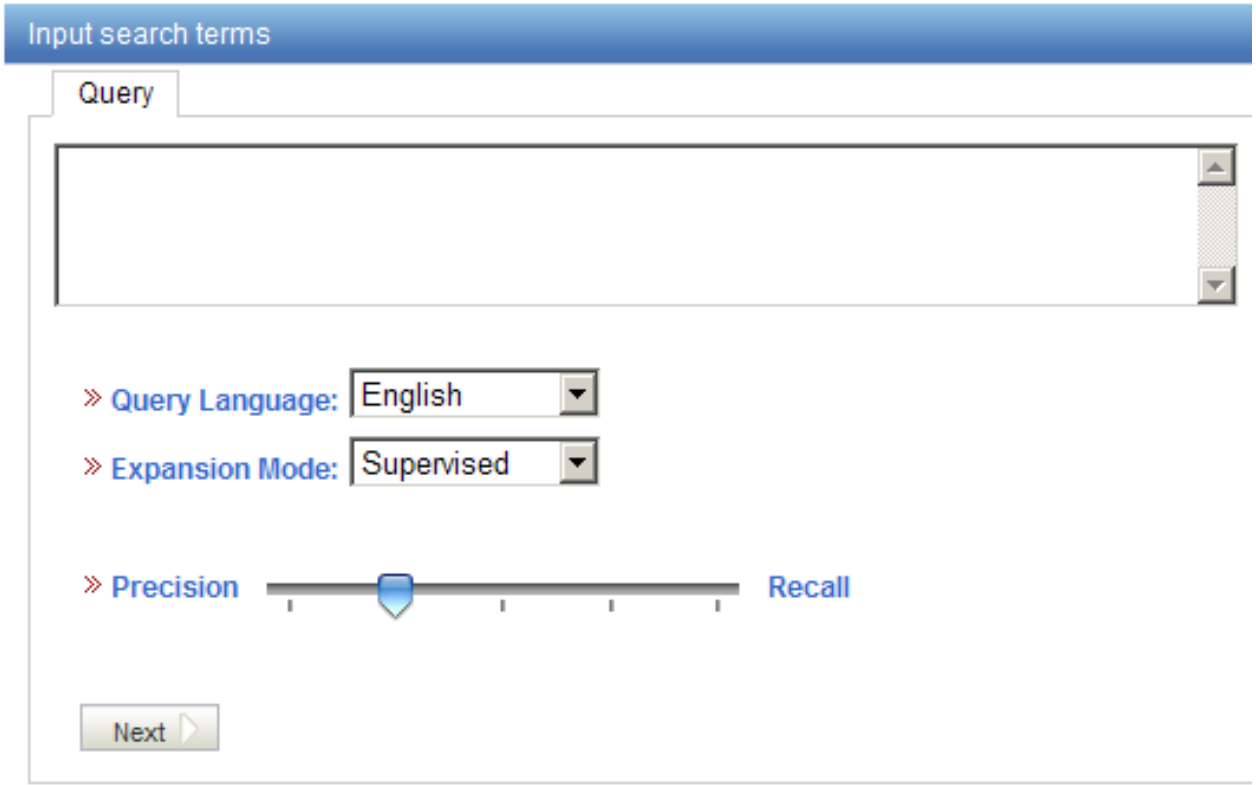
wherein ring H' has the same meaning as defined in [13] above, $R^{1'}$ is a $C_{1\text{-}6}$ alkyl group, and the other symbols have the same meanings as defined in [1] above, or a salt thereof, namely a compound represented by the formula:



# Cross-lingual search

- Enter a search query in either EN, DE, ES, FR or JP and it will be **expanded** in the original language and **translated** into the other languages (keywords translation)
- Automatic or **supervised** mode
- Sliding bar to balance between precision and recall
- Disambiguation by **technical domains** and by selection of appropriate synonyms
- Built from bilingual **dictionnaries** extracted statistically from Patent corpuses

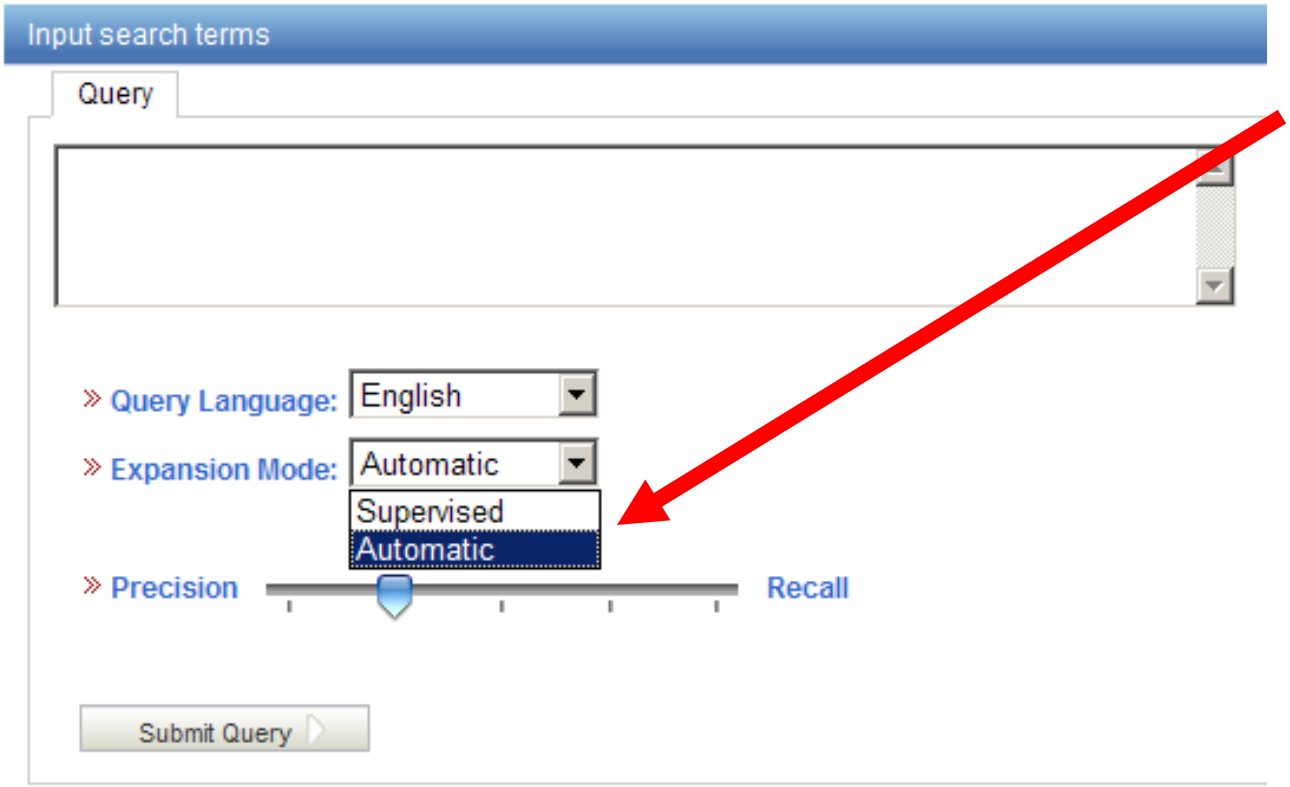
# CLIR: Walkthrough in automatic mode




1) **Select expansion mode**
2) **Enter keywords**
3) **Select search precision level**
4) **Submit Query**
5) **View Results**

WIPO
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

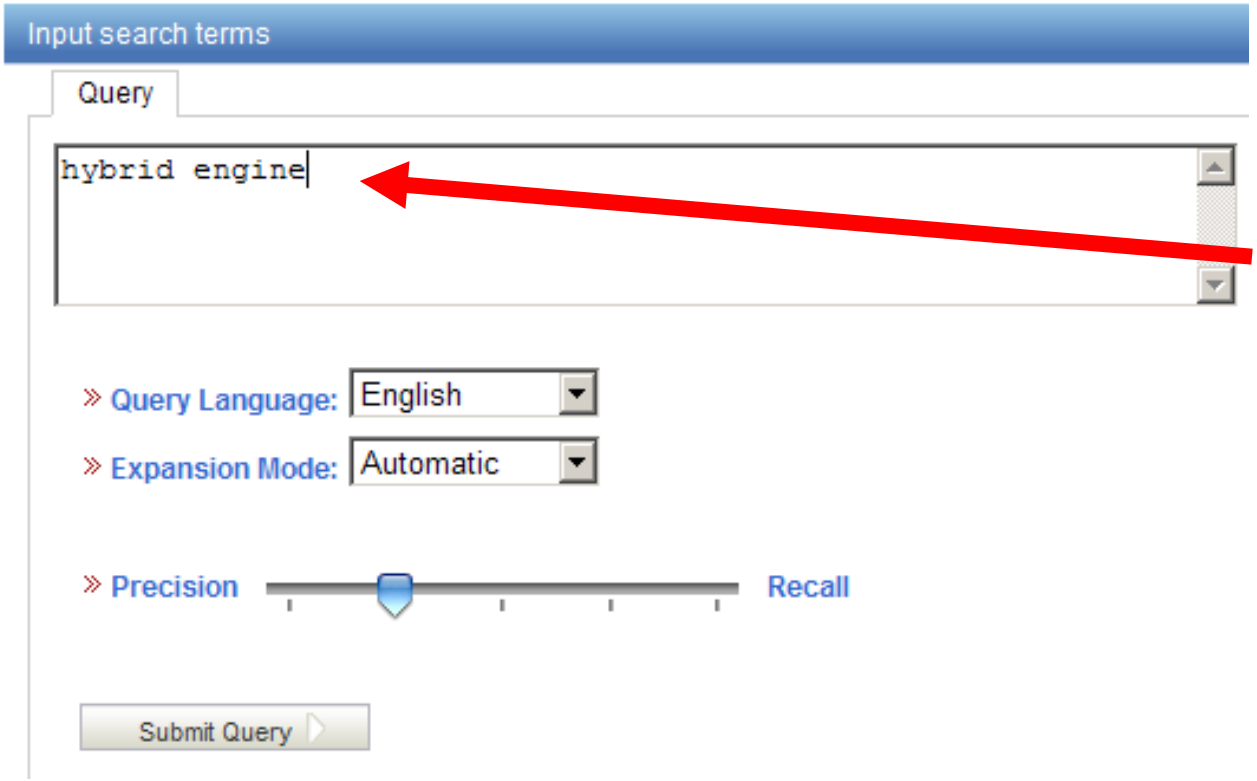
# CLIR: Walkthrough in automatic mode




1) **Select expansion mode**
2) **Enter keywords**
3) **Select search precision level**
4) **Submit Query**
5) **View Results**

WIPO
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

# CLIR: Walkthrough automatic mode




1) Select expansion mode
2) Enter keywords
3) Select search precision level
4) Submit Query
5) View Results

WIPO
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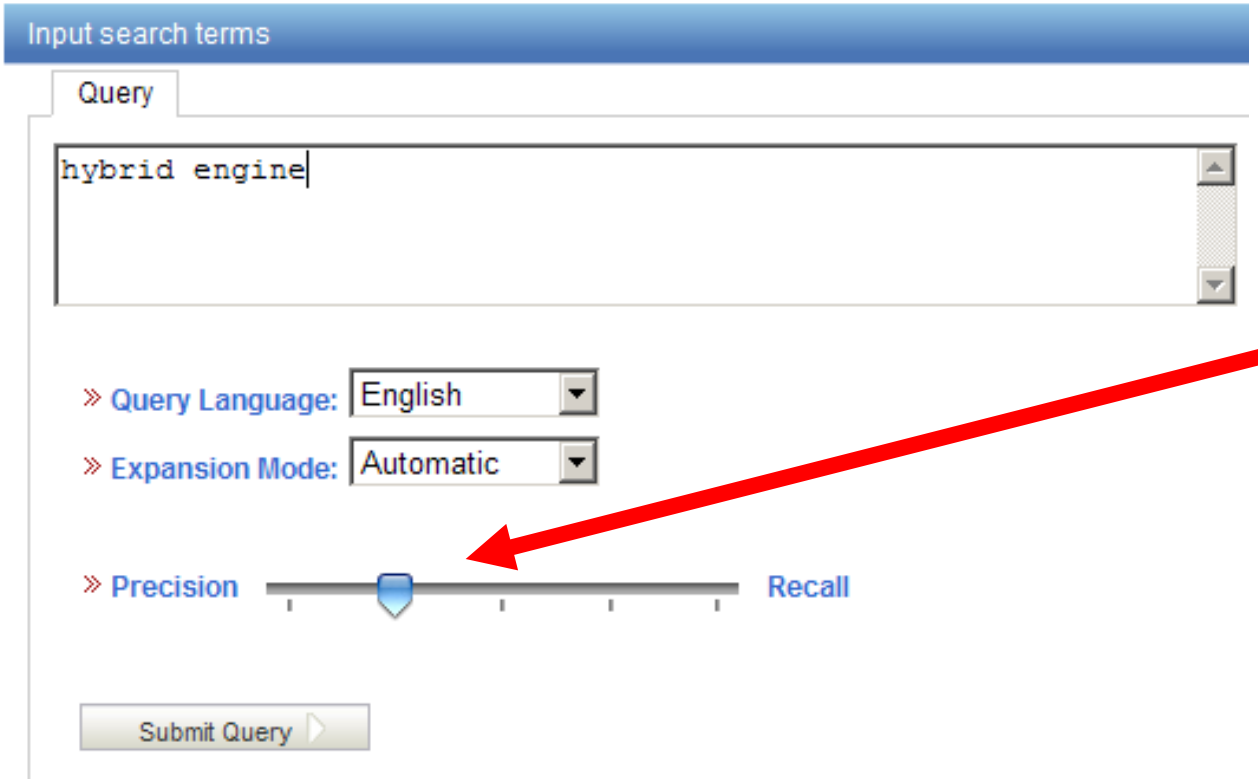
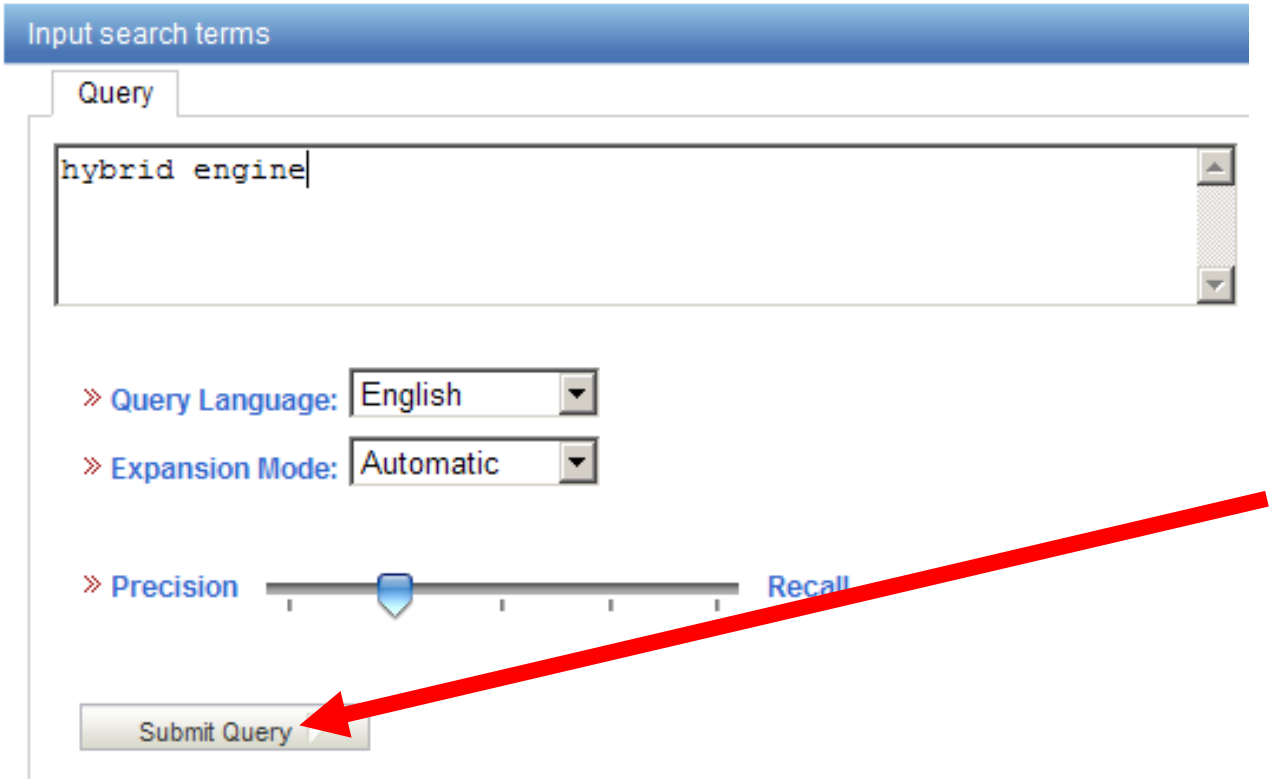
INTELLECTUAL PROPERTY
ORGANIZATION

# CLIR: Walkthrough automatic mode




1) Select expansion mode
2) Enter keywords
3) Select search precision level
4) Submit Query
5) View Results

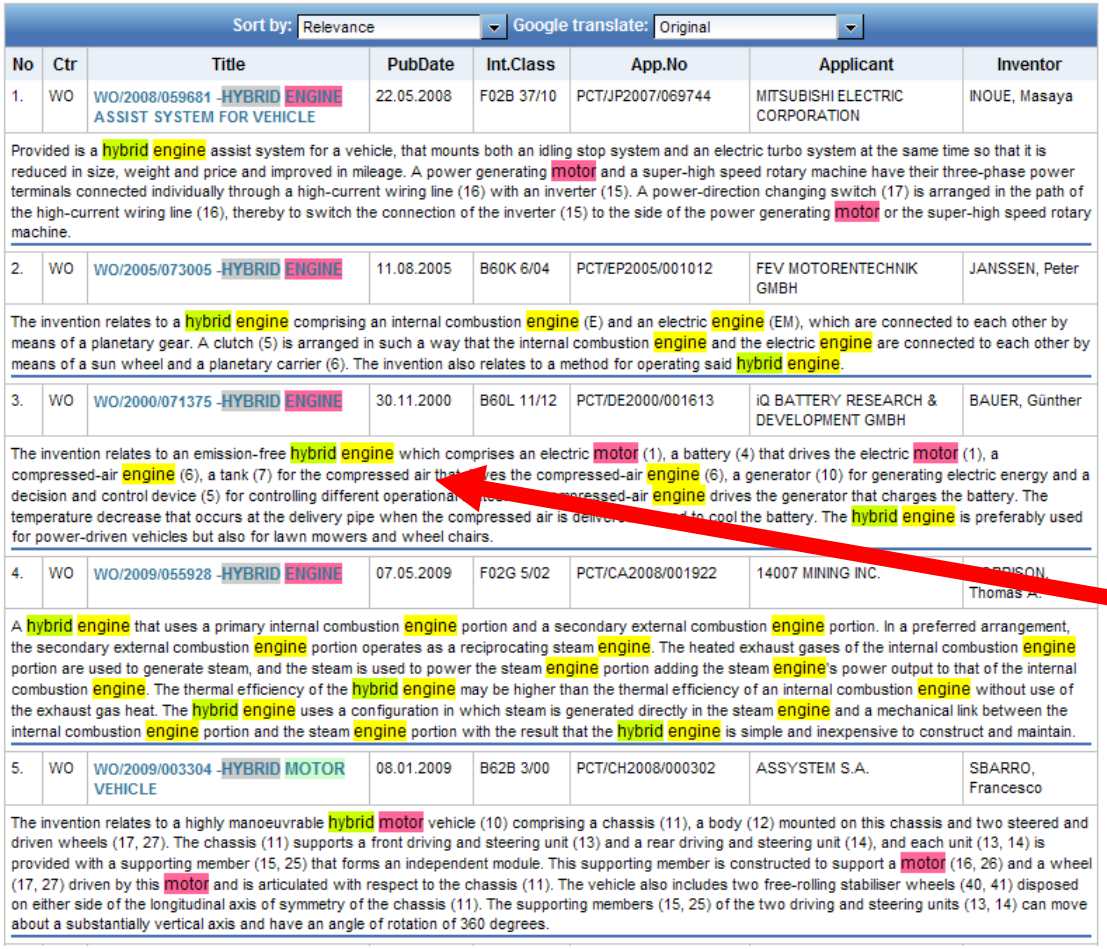
# CLIR: Walkthrough automatic mode




1) Select expansion mode
2) Enter keywords
3) Select search precision level
4) **Submit Query**
5) View Results

WIPO
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

# CLIR: Walkthrough automatic mode



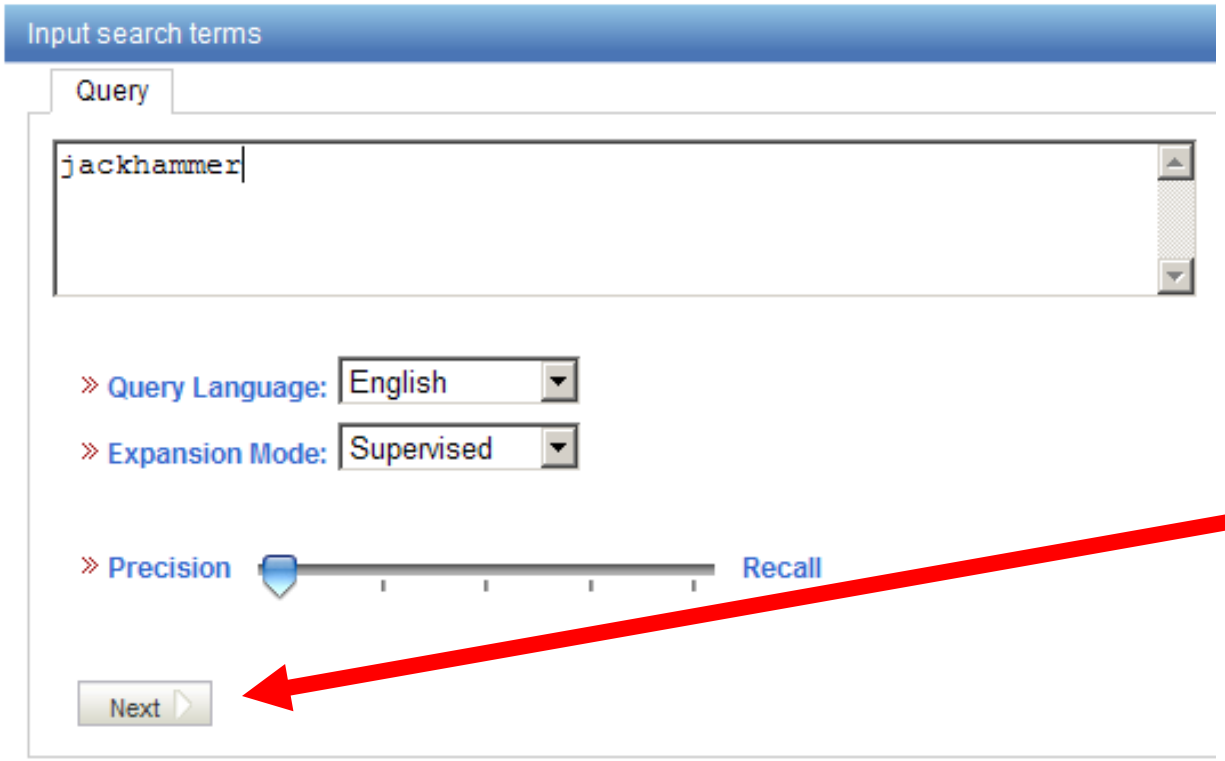
Sort by: Relevance  Google translate: Original

| No | Ctr | Title | PubDate | Int.Class | App.No | Applicant | Inventor |
|---|---|---|---|---|---|---|---|
| 1. | WO | WO/2008/059681 -HYBRID ENGINE ASSIST SYSTEM FOR VEHICLE | 22.05.2008 | F02B 37/10 | PCT/JP2007/069744 | MITSUBISHI ELECTRIC CORPORATION | INOUE, Masaya |
| Provided is a hybrid engine assist system for a vehicle, that mounts both an idling stop system and an electric turbo system at the same time so that it is reduced in size, weight and price and improved in mileage. A power generating motor and a super-high speed rotary machine have their three-phase power terminals connected individually through a high-current wiring line (16) with an inverter (15). A power-direction changing switch (17) is arranged in the path of the high-current wiring line (16), thereby to switch the connection of the inverter (15) to the side of the power generating motor or the super-high speed rotary machine. | | | | | | | |
| 2. | WO | WO/2005/073005 -HYBRID ENGINE | 11.08.2005 | B60K 6/04 | PCT/EP2005/001012 | FEV MOTORENTECHNIK GMBH | JANSSEN, Peter |
| The invention relates to a hybrid engine comprising an internal combustion engine (E) and an electric engine (EM), which are connected to each other by means of a planetary gear. A clutch (5) is arranged in such a way that the internal combustion engine and the electric engine are connected to each other by means of a sun wheel and a planetary carrier (6). The invention also relates to a method for operating said hybrid engine. | | | | | | | |
| 3. | WO | WO/2000/071375 -HYBRID ENGINE | 30.11.2000 | B60L 11/12 | PCT/DE2000/001613 | iQ BATTERY RESEARCH & DEVELOPMENT GMBH | BAUER, Günther |
| The invention relates to an emission-free hybrid engine which comprises an electric motor (1), a battery (4) that drives the electric motor (1), a compressed-air engine (6), a tank (7) for the compressed air that drives the compressed-air engine (6), a generator (10) for generating electric energy and a decision and control device (5) for controlling different operational [illegible] compressed-air engine drives the generator that charges the battery. The temperature decrease that occurs at the delivery pipe when the compressed air is delivered to cool the battery. The hybrid engine is preferably used for power-driven vehicles but also for lawn mowers and wheel chairs. | | | | | | | |
| 4. | WO | WO/2009/055928 -HYBRID ENGINE | 07.05.2009 | F02G 5/02 | PCT/CA2008/001922 | 14007 MINING INC. | [illegible] Thomas A. |
| A hybrid engine that uses a primary internal combustion engine portion and a secondary external combustion engine portion. In a preferred arrangement, the secondary external combustion engine portion operates as a reciprocating steam engine. The heated exhaust gases of the internal combustion engine portion are used to generate steam, and the steam is used to power the steam engine portion adding the steam engine's power output to that of the internal combustion engine. The thermal efficiency of the hybrid engine may be higher than the thermal efficiency of an internal combustion engine without use of the exhaust gas heat. The hybrid engine uses a configuration in which steam is generated directly in the steam engine and a mechanical link between the internal combustion engine portion and the steam engine portion with the result that the hybrid engine is simple and inexpensive to construct and maintain. | | | | | | | |
| 5. | WO | WO/2009/003304 -HYBRID MOTOR VEHICLE | 08.01.2009 | B62B 3/00 | PCT/CH2008/000302 | ASSYSTEM S.A. | SBARRO, Francesco |
| The invention relates to a highly manoeuvrable hybrid motor vehicle (10) comprising a chassis (11), a body (12) mounted on this chassis and two steered and driven wheels (17, 27). The chassis (11) supports a front driving and steering unit (13) and a rear driving and steering unit (14), and each unit (13, 14) is provided with a supporting member (15, 25) that forms an independent module. This supporting member is constructed to support a motor (16, 26) and a wheel (17, 27) driven by this motor and is articulated with respect to the chassis (11). The vehicle also includes two free-rolling stabiliser wheels (40, 41) disposed on either side of the longitudinal axis of symmetry of the chassis (11). The supporting members (15, 25) of the two driving and steering units (13, 14) can move about a substantially vertical axis and have an angle of rotation of 360 degrees. | | | | | | | |

1) Select expansion mode
2) Enter keywords
3) Select search precision level
4) Submit Query
5) View Results

WIPO WORLD INTELLECTUAL PROPERTY ORGANIZATION

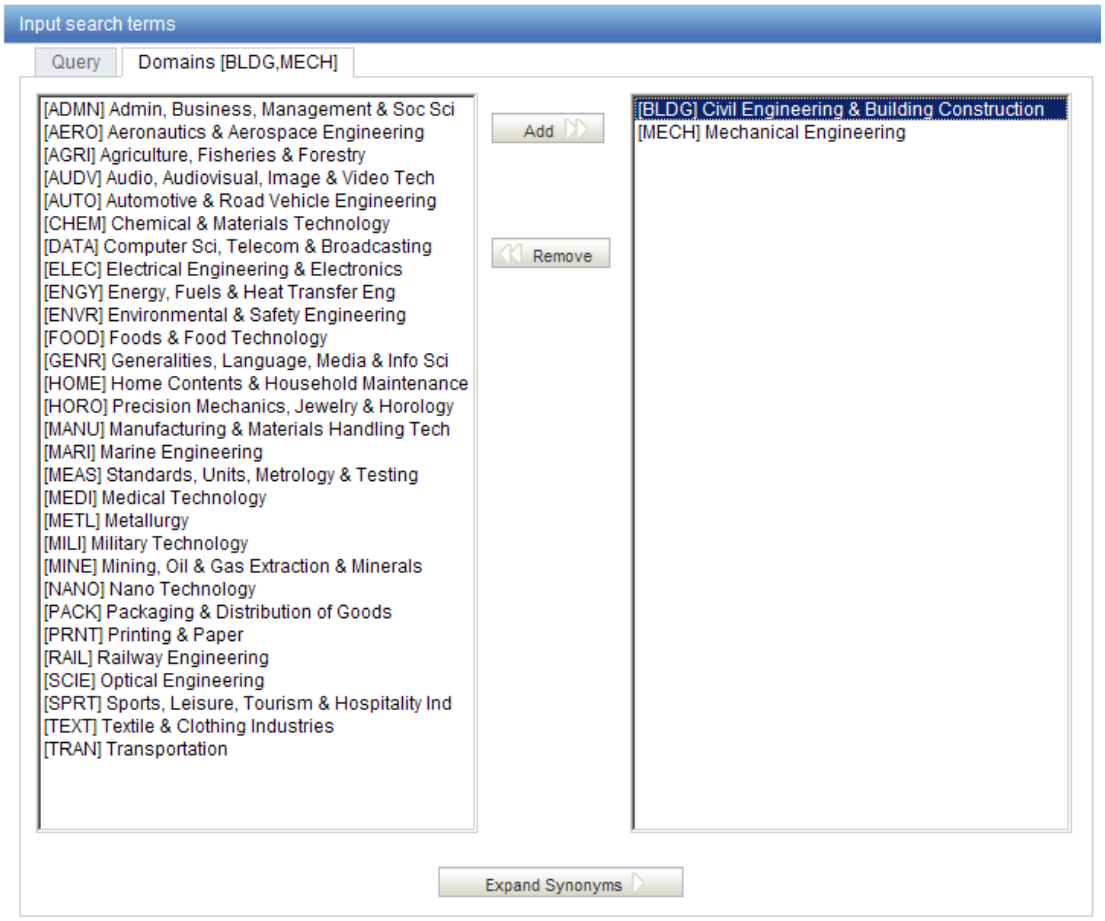
# CLIR: Walkthrough supervised mode




1) Select expansion mode
2) Enter keywords
3) Select search precision level
4) **Next**

...

# CLIR: Walkthrough supervised mode




5) **Select technical domains**

6) **For each term, select variants**

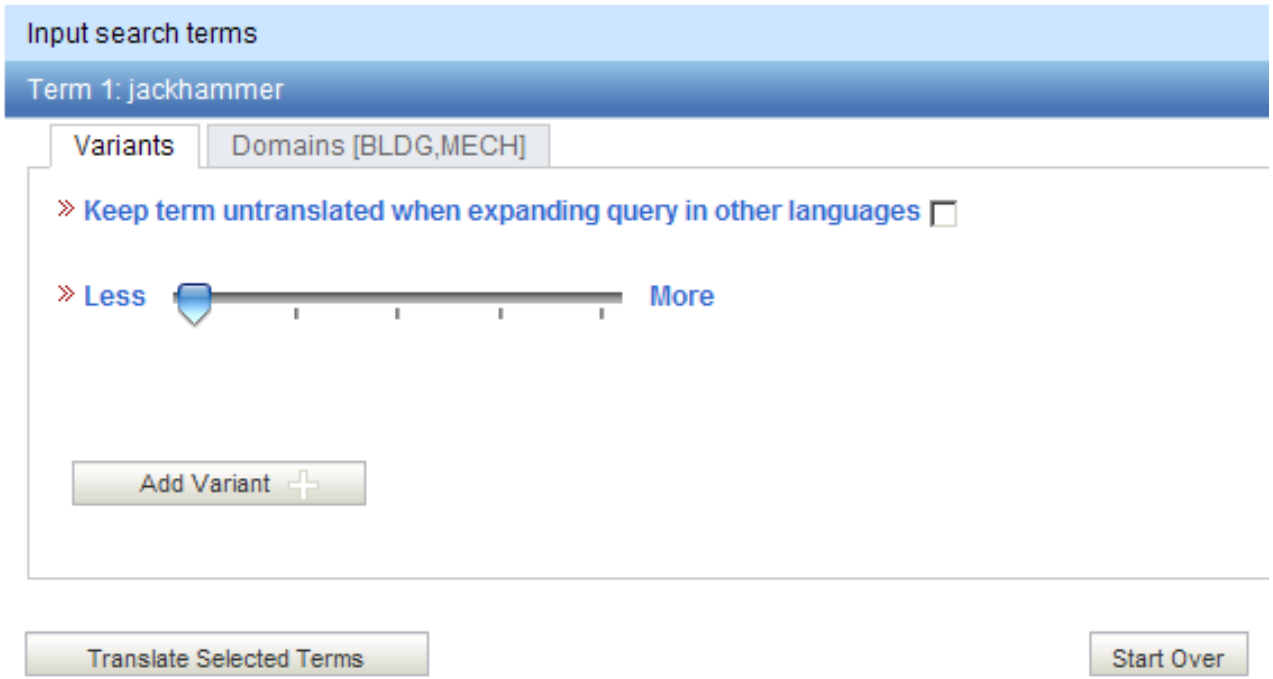
7) **Review expansions**

8) **Choose parameters**

9) **Submit query**

WIPO
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

# CLIR: Walkthrough supervised mode




5) Select technical domains

6) For each term, select variants

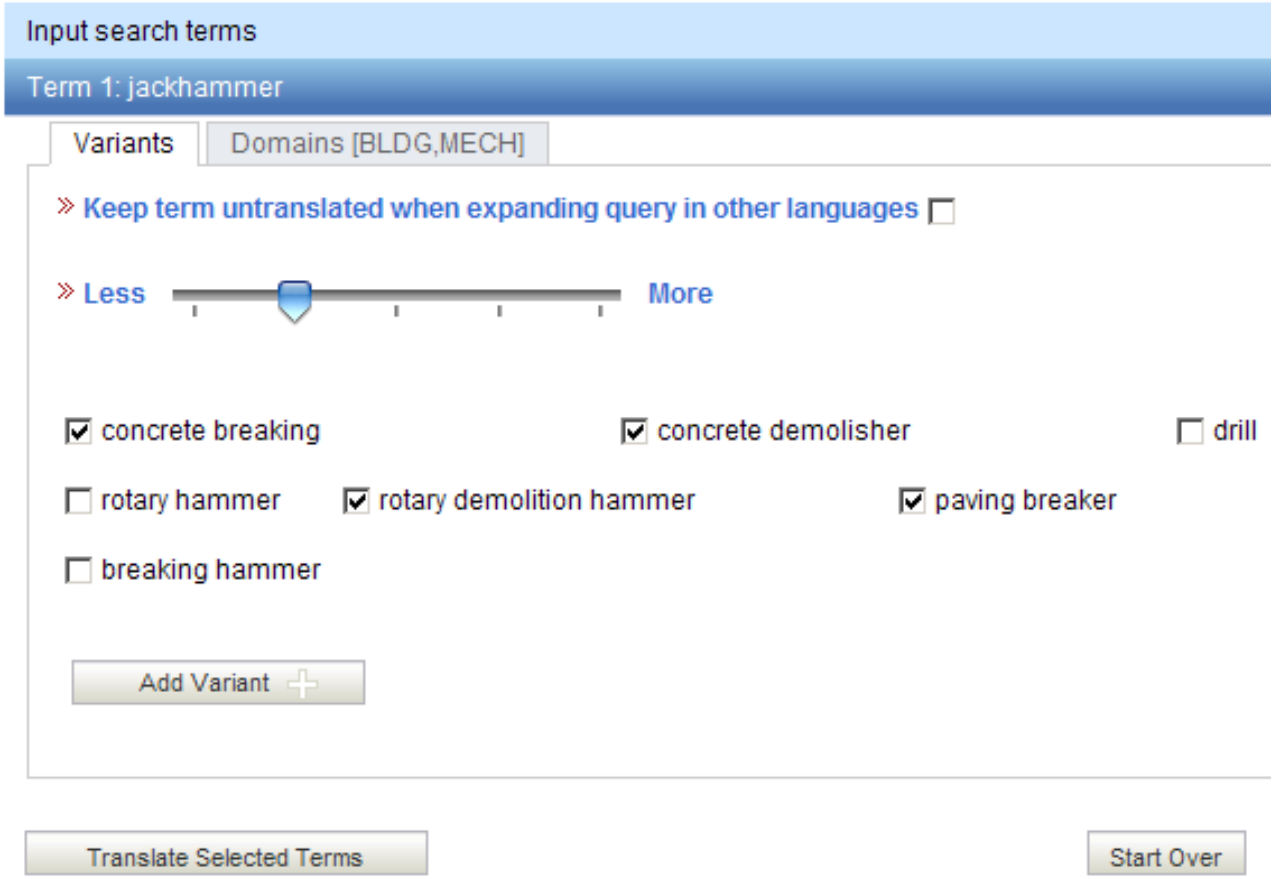
7) Review expansions

8) Choose parameters

9) Submit query

WIPO
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

# CLIR: Walkthrough supervised mode




5) Select technical domains

6) For each term, select variants

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8) Choose parameters

9) Submit query

WIPO
WORLD
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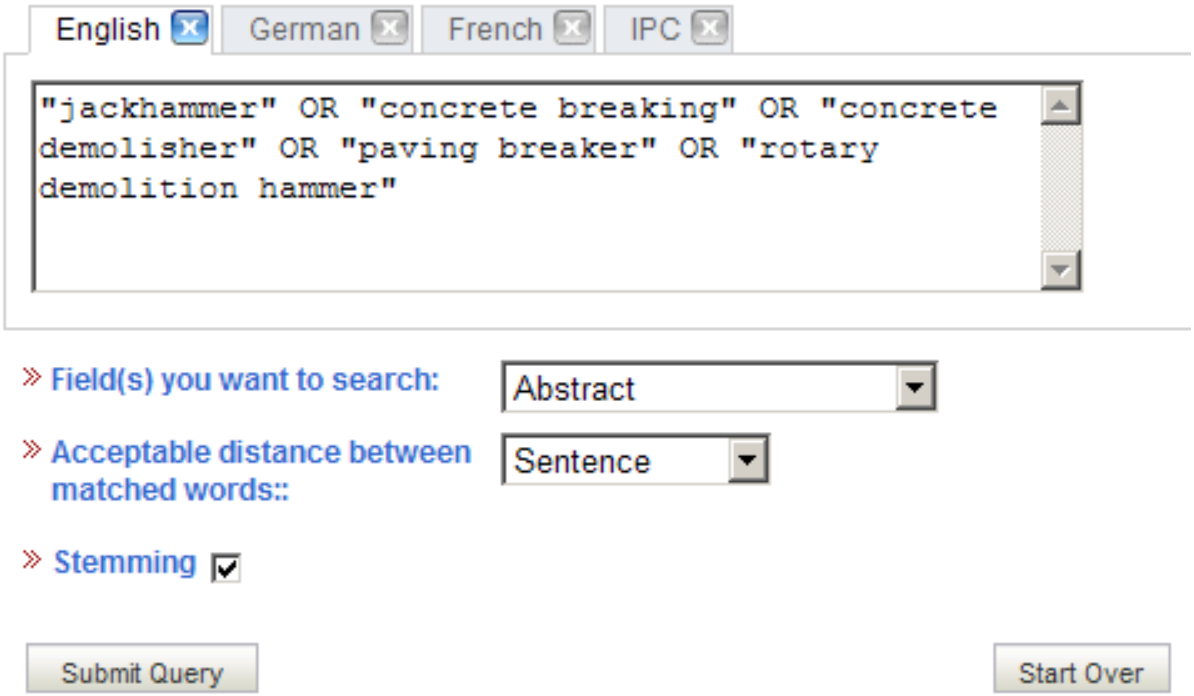
ORGANIZATION

# CLIR: Walkthrough supervised mode




5) Select technical domains

6) For each term, select variants

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8) Choose parameters

9) Submit query

WIPO
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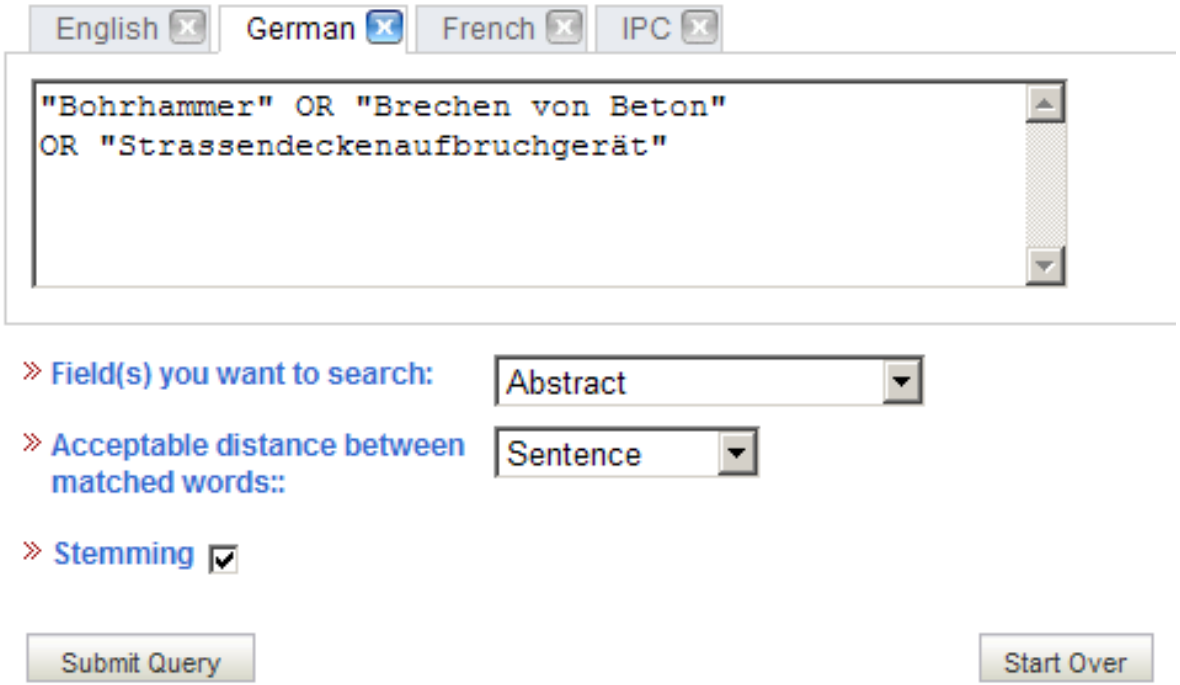
ORGANIZATION

# CLIR: Walkthrough supervised mode

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WIPO
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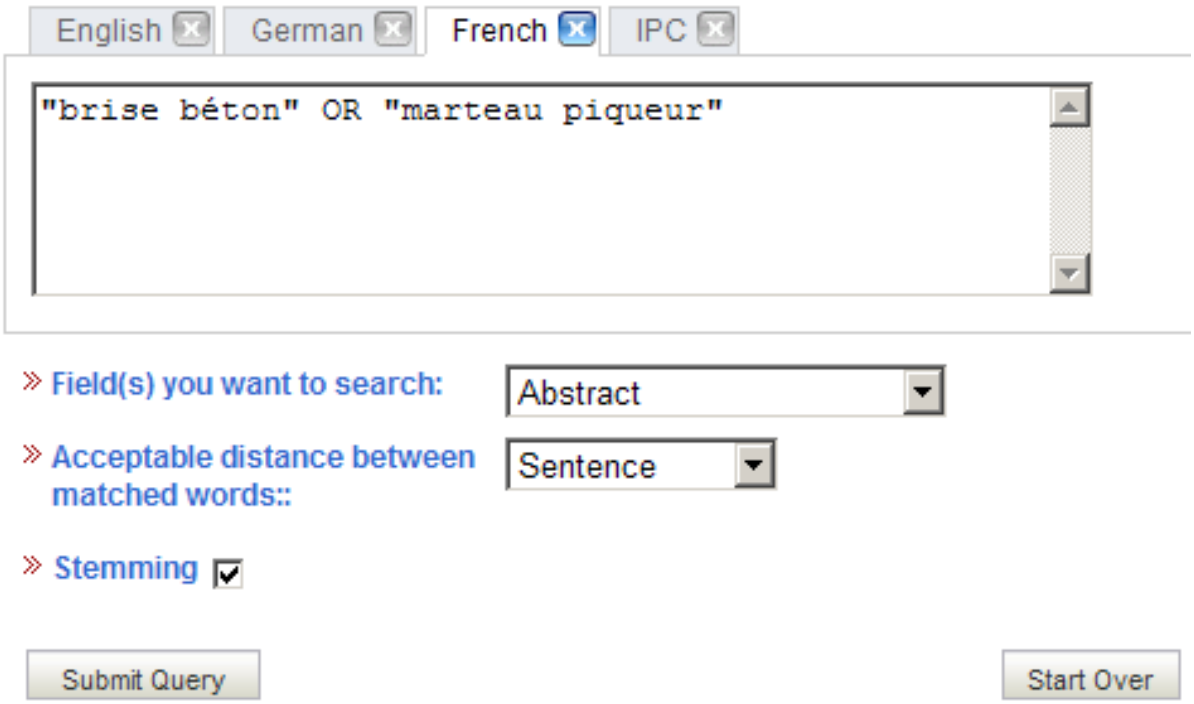
# CLIR: Walkthrough supervised mode

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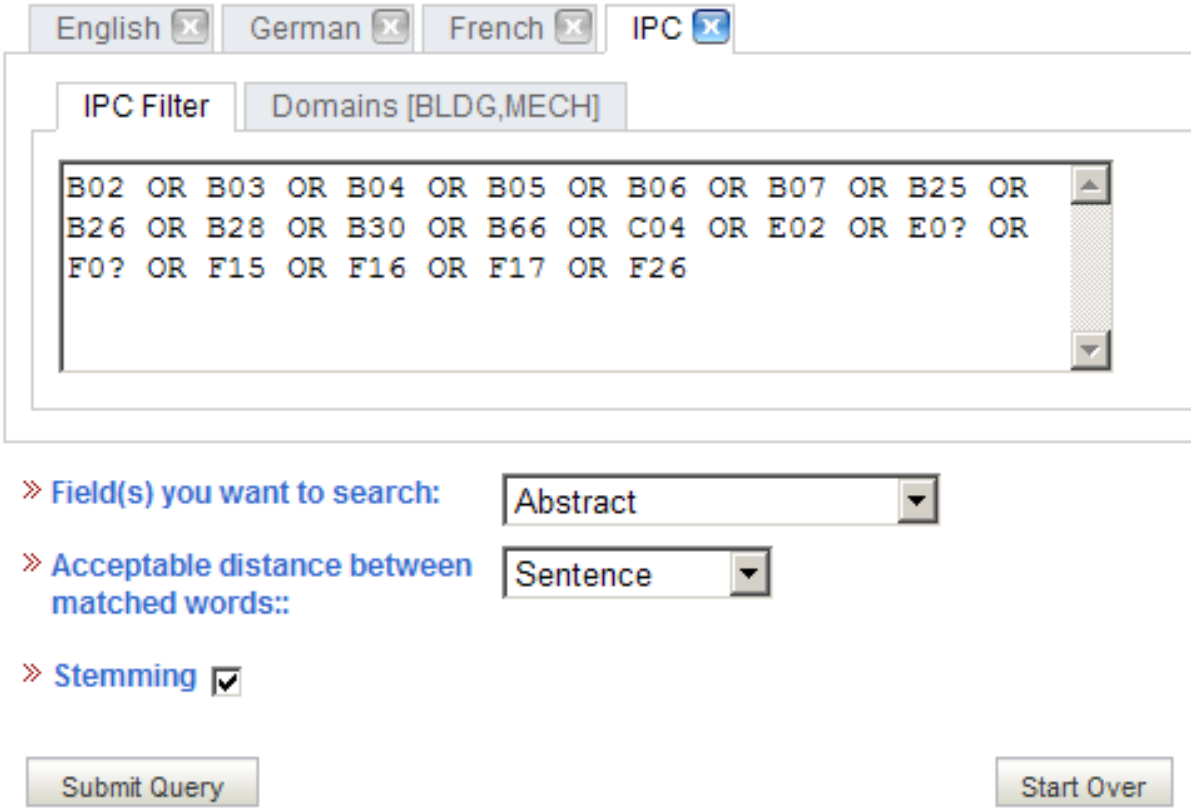
WIPO
WORLD INTELLECTUAL PROPERTY ORGANIZATION

# CLIR: Walkthrough supervised mode

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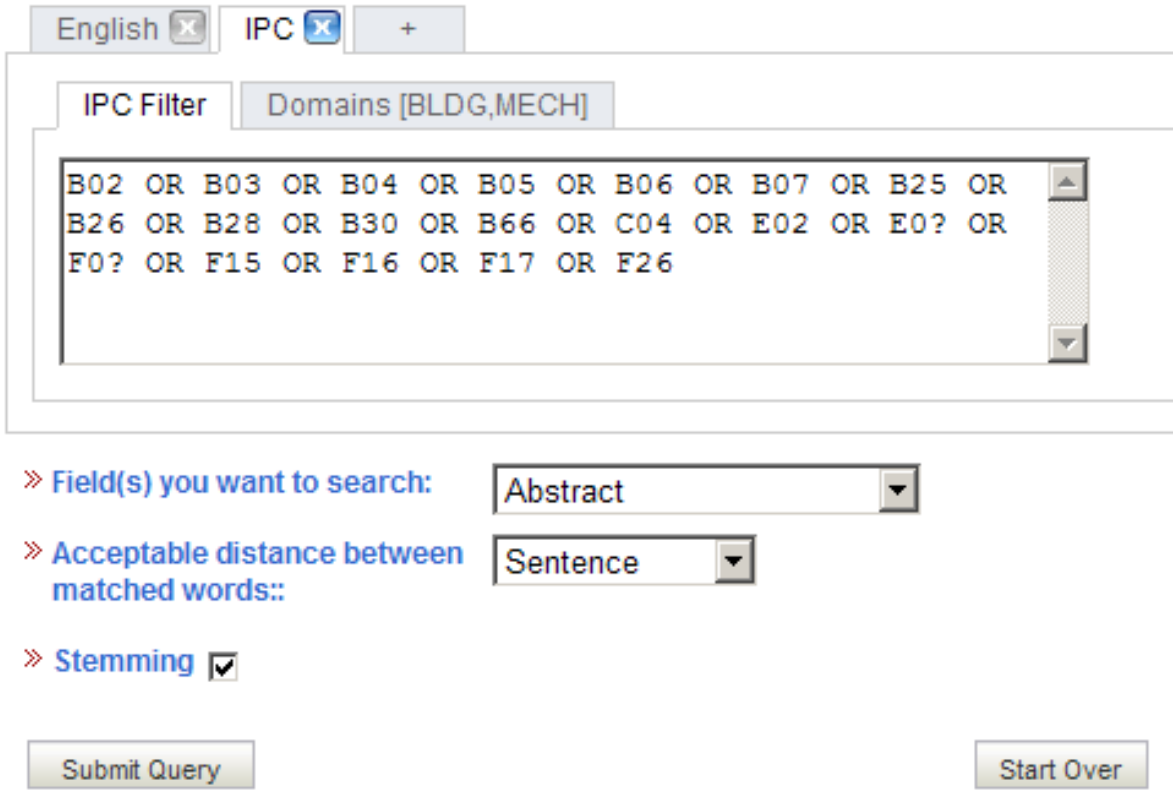
WIPO
WORLD INTELLECTUAL PROPERTY ORGANIZATION

# CLIR: Walkthrough supervised mode




5) Select technical domains

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WIPO
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INTELLECTUAL PROPERTY
ORGANIZATION

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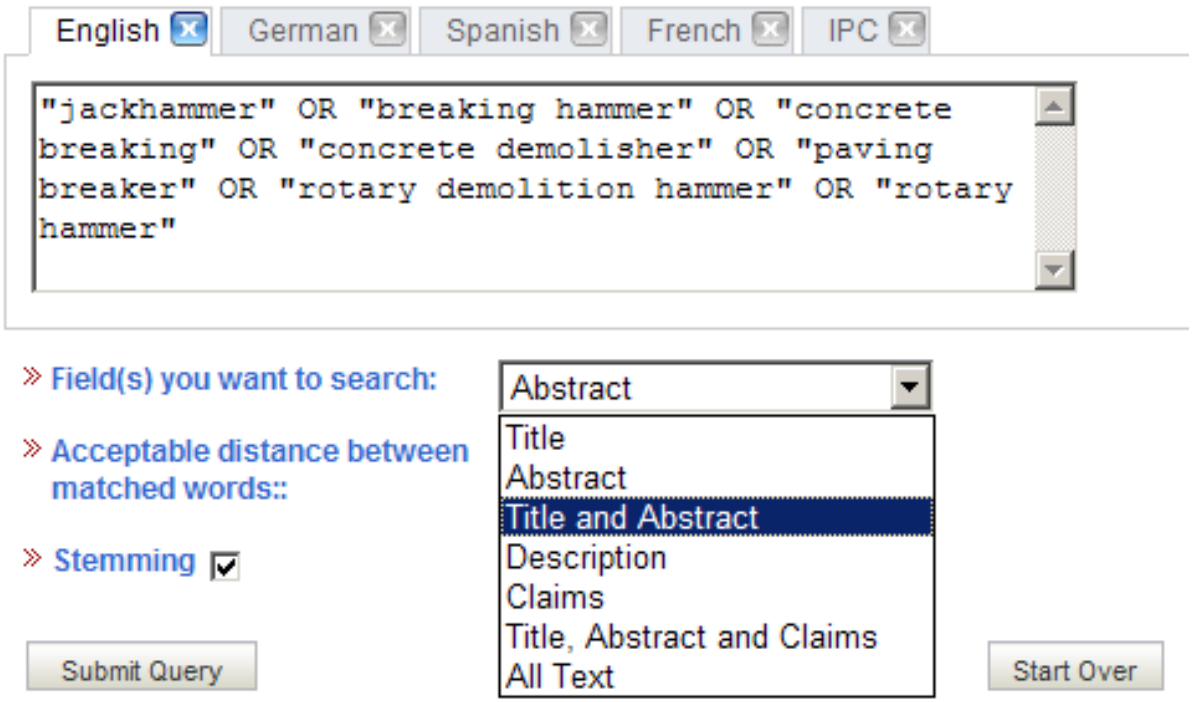


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8) **Choose parameters**

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WIPO
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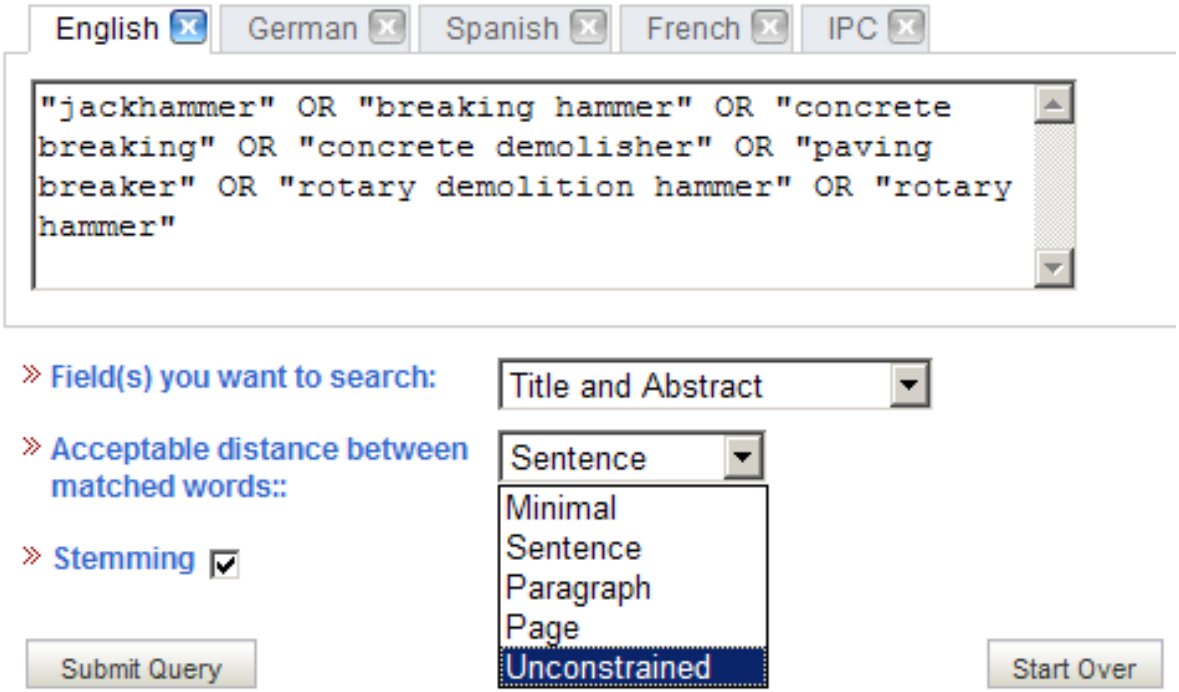
INTELLECTUAL PROPERTY
ORGANIZATION

# CLIR: Walkthrough supervised mode




5) Select technical domains

6) For each term, select variants

7) Review expansions

8) **Choose parameters**

9) Submit query

WIPO
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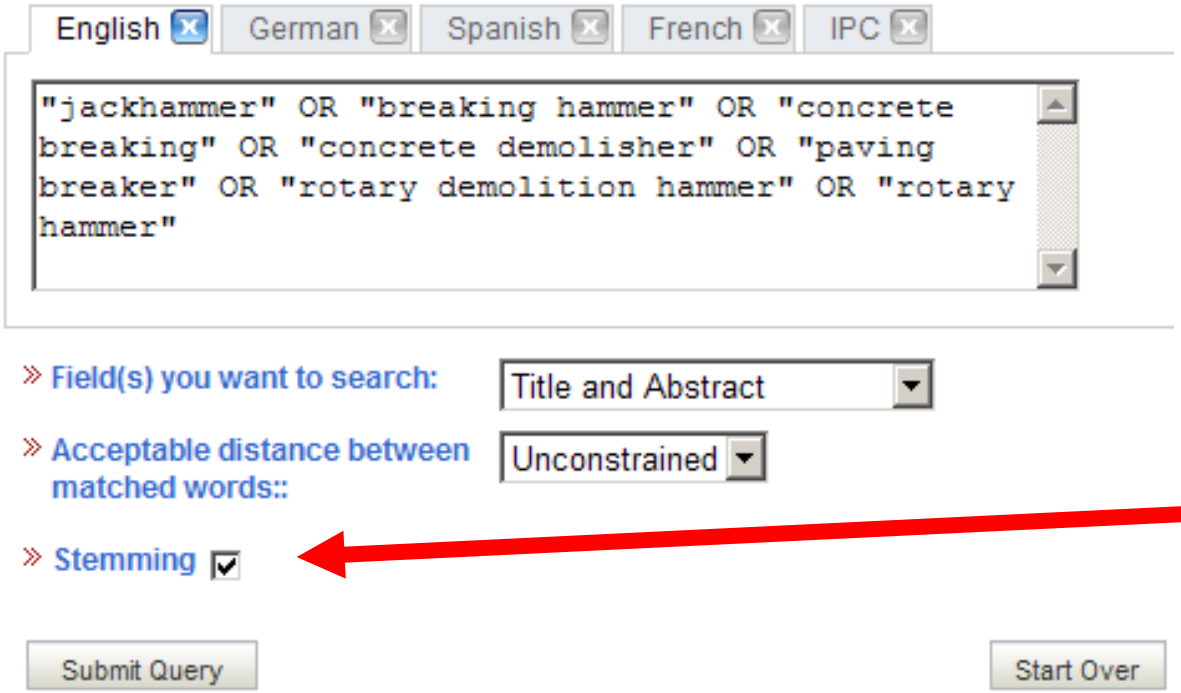
INTELLECTUAL PROPERTY
ORGANIZATION

# CLIR: Walkthrough supervised mode




5) Select technical domains

6) For each term, select variants

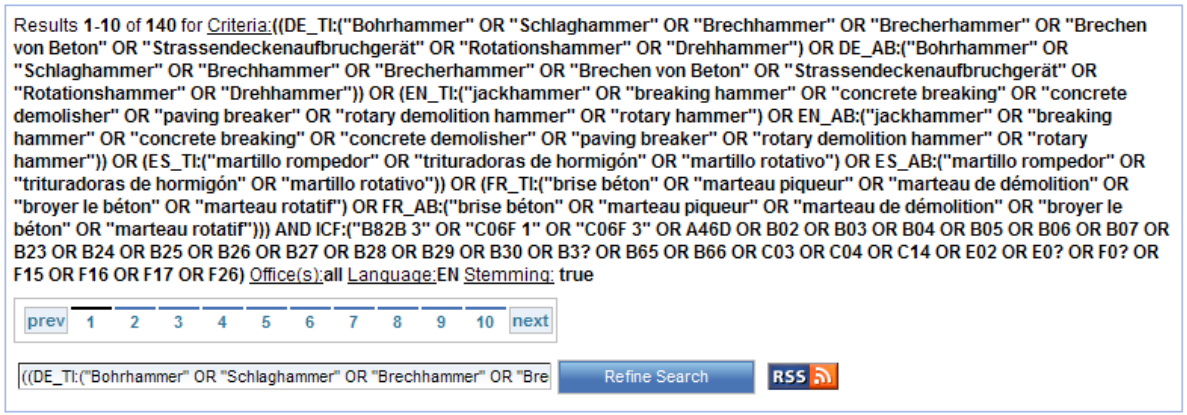
7) Review expansions

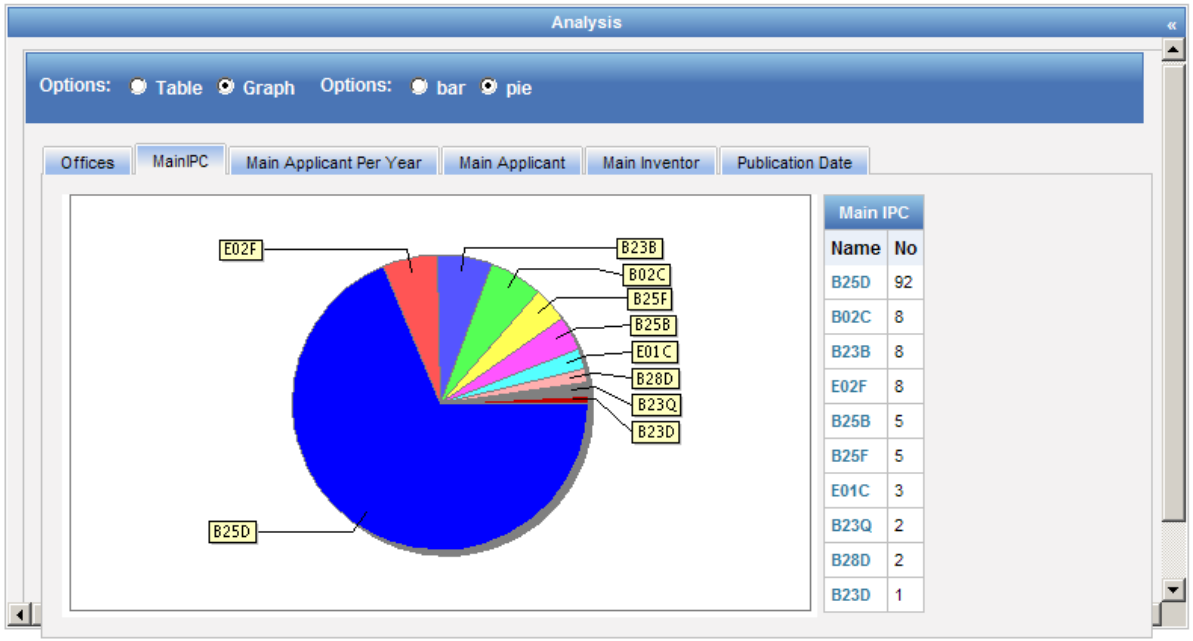
8) **Choose parameters**

9) Submit query

WIPO
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

# CLIR: Walkthrough supervised mode




5) Select technical domains

6) For each term, select variants

7) Review expansions

8) Choose parameters

**9) Submit query**

WIPO WORLD INTELLECTUAL PROPERTY ORGANIZATION

# Cross-lingual search: an example

- Search « shaver rotating head »
- Step 2: synonym selection
- For example:
  - select « rotary », « rotatable », « revolving », « rotational » for the sub-expression « **rotating** »
  - select « razor » for the sub-expression « **shaver** »

and so on

# Cross-lingual search: an example

- Search « shaver rotating head »

- Step 3: obtain expanded query

- <u>English expansion:</u>
- ( ( razor OR shaver ) AND ( "rotating head" OR "rotary head" ) ) OR ( ( razor OR shaver ) AND ( revolving OR rotating OR rotary ) AND head )

# Cross-lingual search: an example

- Search « shaver rotating head »

- Step 3: obtain expanded query

- <u>German expansion:</u>
- ( ( Rasiergerät OR Rasierapparat OR raiser OR Rasierer ) AND ( "drehbarem Kopf" OR Rotationskopf OR "rotierenden Kopf" OR Drehkopf OR "Rotierender Schleifkopf" ) )

# Cross-lingual search: an example

- Search « shaver rotating head »
- Step 3: obtain expanded query
- <u>Spanish expansion:</u>
- ( afeitar AND ( "cabezal rotatorio" OR "cabeza rotatoria" ) )

# Cross-lingual search: an example

- Search « shaver rotating head »
- Step 3: obtain expanded query
- <u>French expansion:</u>
- ( rasoir AND ( "tête rotative" OR "tête tournante" ) )

# Cross-lingual search: an example

- Search « shaver rotating head »
- Step 3: obtain expanded query
- Japanese expansion:
- ( ( "シェーバ" OR "シェーバー" OR "かみそり" OR "式髭" OR "そり" OR "シェイバー" OR "剃刀" ) AND ( "回転頭" OR "回転ヘッド" OR "回転ヘッド付き" OR "回転可能なヘッド" ) ) OR ( ( "シェーバ" OR "シェーバー" OR "かみそり" OR "式髭" OR "そり" OR "シェイバー" OR "剃刀" ) AND ( "アン" OR "レボルビング" OR "旋回" OR "回転" ) AND "ヘッド" )

# Cross-lingual search: an example

- Search « shaver rotating head »
- Step 3: obtain expanded query

- IPC filter:

- [MANU], [MECH]:
- A46D OR B07 OR "B82B 3" OR B23 OR B24 OR B25 OR B26 OR B27 OR B28 OR B29 OR B3? OR B65 OR B66 OR C03 OR C04 OR "C06F 1" OR "C06F 3" OR C14 OR B02 OR B03 OR B04 OR B05 OR B06 OR B07 OR B25 OR B26 OR B30 OR E02 OR F0? OR F15 OR F16 OR F26

# Cross-lingual search: what does it change?

- Search **« shaver rotating head »** in abstracts

- Level 1: shaver and rotating and head:
  **4 hits**
- Level 2: shaver and rotating and head (stemming):
  **14 hits**
- Level 3: English monolingual expansion with stemming:
  **44 hits**
- Level 3: cross lingual expansion with stemming:
  **45 hits**

# Cross-lingual search: what does it change?

- Search **« Rasiergerät  Drehkopf»** in abstracts

- Level 1: Rasiergerät and Drehkopf:
  **0 hits**
- Level 2: Rasiergerät and Drehkopf (stemming):
  **0 hits**
- Level 3: German monolingual expansion with stemming:
  **0 hits**
- Level 3: cross lingual expansion with stemming:
  **25 hits**

# Cross-lingual search: what does it change?

- Search **« afeitadora cabeza rotatoria»** in abstracts

- Level 1: afeitadora and cabeza and rotatoria :
  **0 hits**
- Level 2: afeitadora and cabeza and rotatoria (stemming):
  **0 hits**
- Level 3: Spanish monolingual expansion with stemming:
  **3 hits**
- Level 3: cross lingual expansion with stemming:
  **33 hits**

# Known limitations of current system

1. Maximum length of queries around 10’000 characters using Firefox and 250 characters with Internet Explorer (larger queries induce navigation and performance issues) => use Firefox for CLIR
2. Maximum number of keywords 5, 10 characters for Japanese

# Next considered languages

- Korean
- Chinese
- Portuguese
- Russian

- Difficult to predict when they will be available