

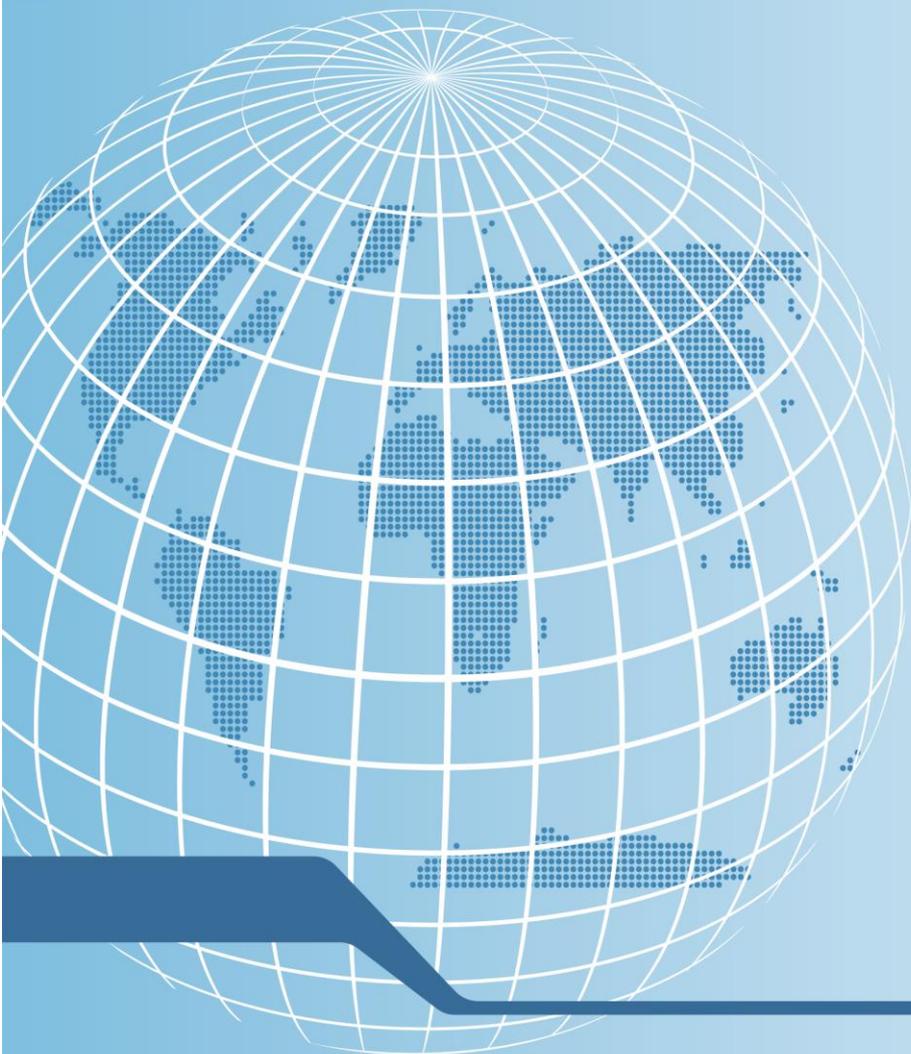
# Taller Nacional

**La búsqueda de novedad y el estado del arte para evaluar la estrategia de protección. Elementos a tomar en cuenta en la formulación de las solicitudes de invención.**

**Pablo Paz**

Bogotá, Colombia

21 al 23 de Junio de 2016



# Estrategias de protección

- ✓ Proteger en los países mas relevantes para la invención
- ✓ Buscar posibles licenciatarios o socios en la protección
- ✓ Buscar estrategias de protección de empresas competidoras lideres

# Entonces ..¿ Dónde patentar ?

- ✓ **¿ Conocer de los Recursos financieros disponibles?**
  
- ✓ **Presentación**
  - ✓ Redacción de patentes (incluido realización de figuras)
  - ✓ Tramitación de la patente
  - ✓ Traducciones
  - ✓ Tasas oficiales
  
- ✓ **Tramitación:**
  - ✓ Contestación de observaciones
  - ✓ Anualidades (Desde 3<sup>er</sup> año en algunos países, aún sin concesión)
  - ✓ Tasas de concesión

# ¿ Dónde patentar ?

## ✓ **Primero, la Solicitud nacional**

- ✓ Menores costos (menos intermediarios)
- ✓ Idioma local (No existen costos de traducción)
- ✓ Derecho de prioridad ( la fecha nacional es considerada en otros países y fija un momento particular)

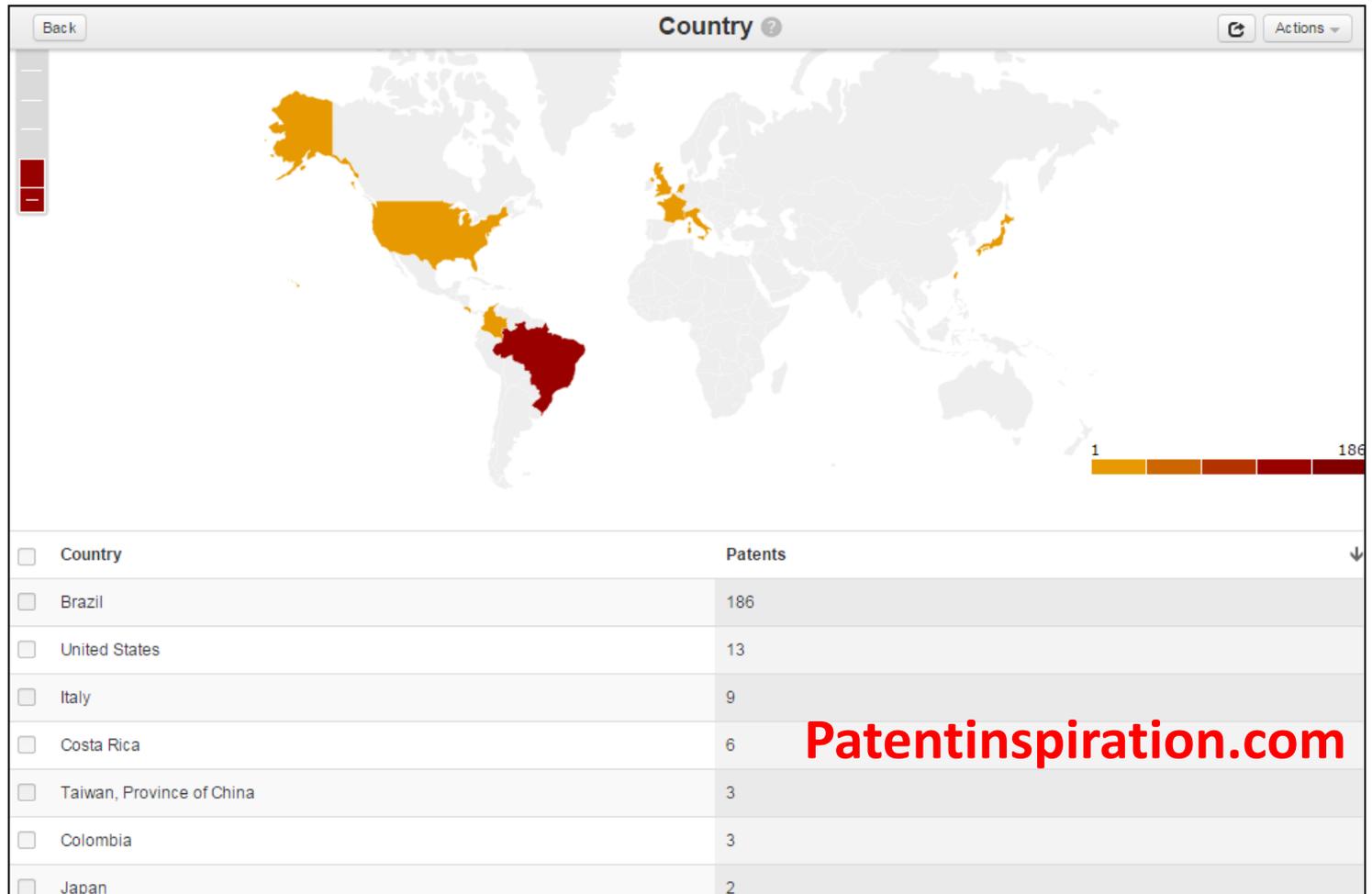
## ✓ **Luego en el exterior. Pero .. ¿ En que países ?**

- ✓ ¿Mercado?
- ✓ ¿Clientes/usuarios?
- ✓ ¿Competidores/ infractores/licenciatarios?
- ✓ ¿Es patentable en todos los países?
- ✓ Fortaleza legal de una patente en dichos países

# ¿ Que bases de datos usar ?

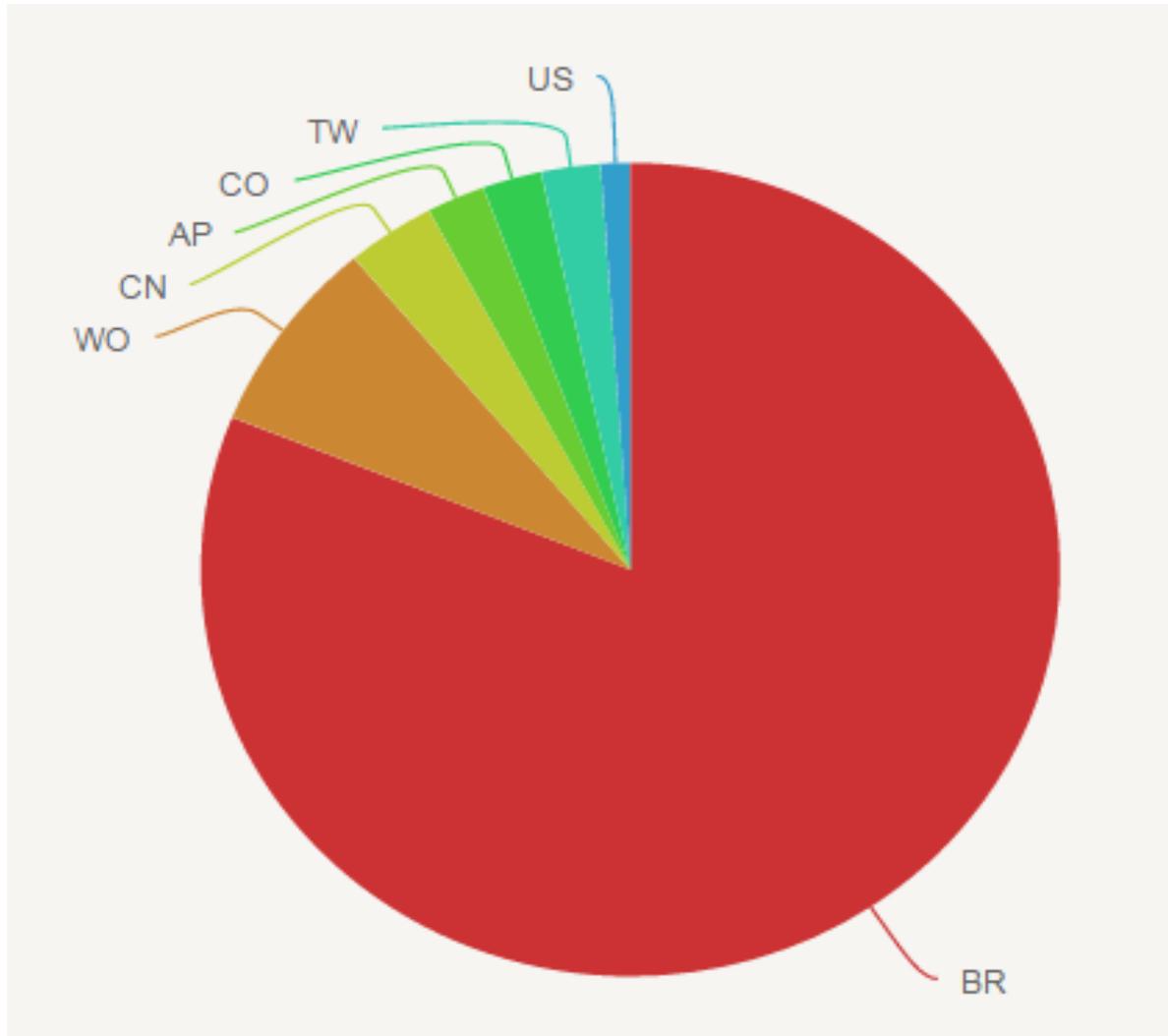
- ✓ Bases que nos ofrezcan información estadística
- ✓ De uso libre y gratuito
  - ✓ Patentscope
  - ✓ Lens.org
  - ✓ Patentinspiration

# ¿ Países donde se desarrolla ?

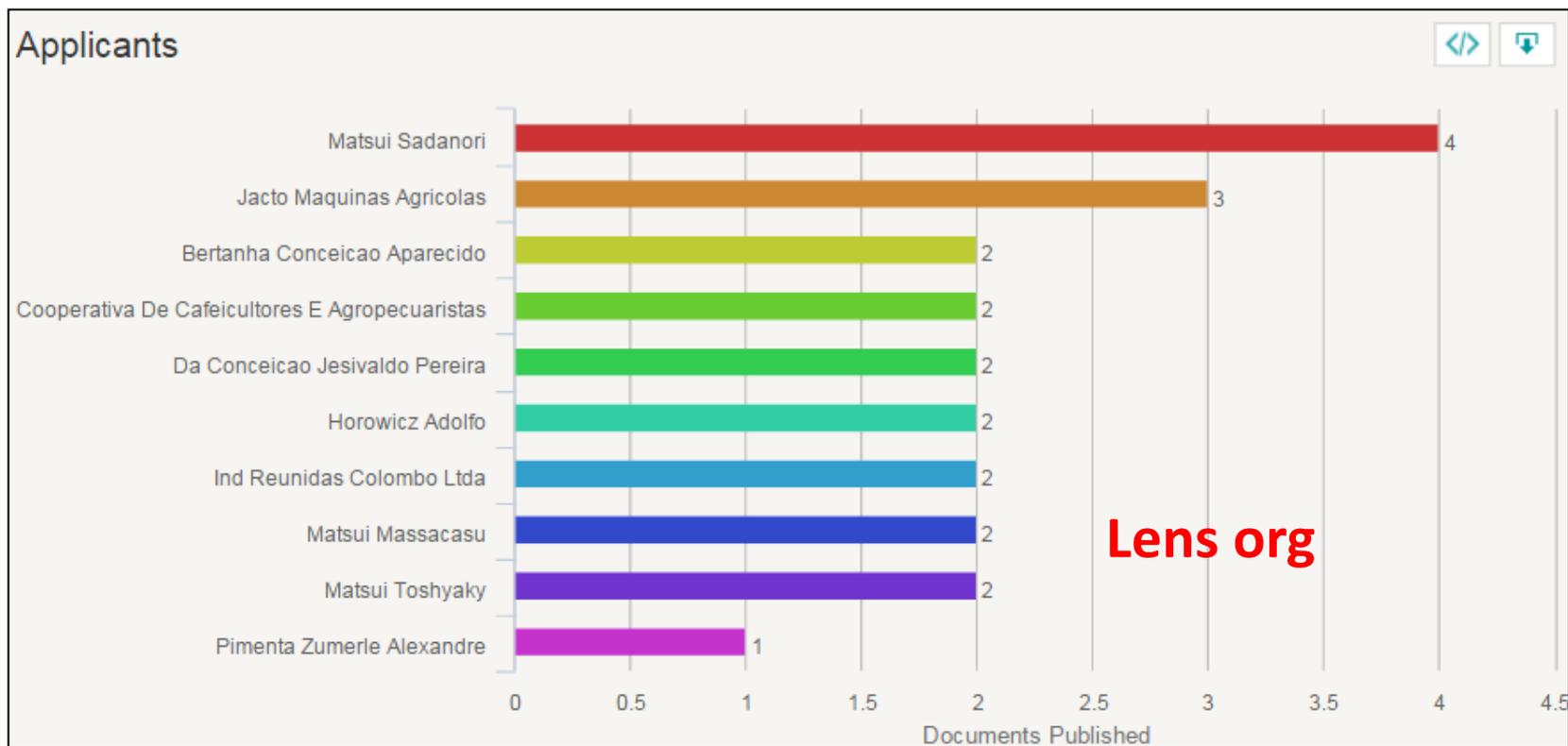


# ¿ Países que reciben más patentes?

Lens.org



# ¿ Empresas que más patentan?





# ¿ Competidores , Licenciatarios ?

Patentinspiration.com

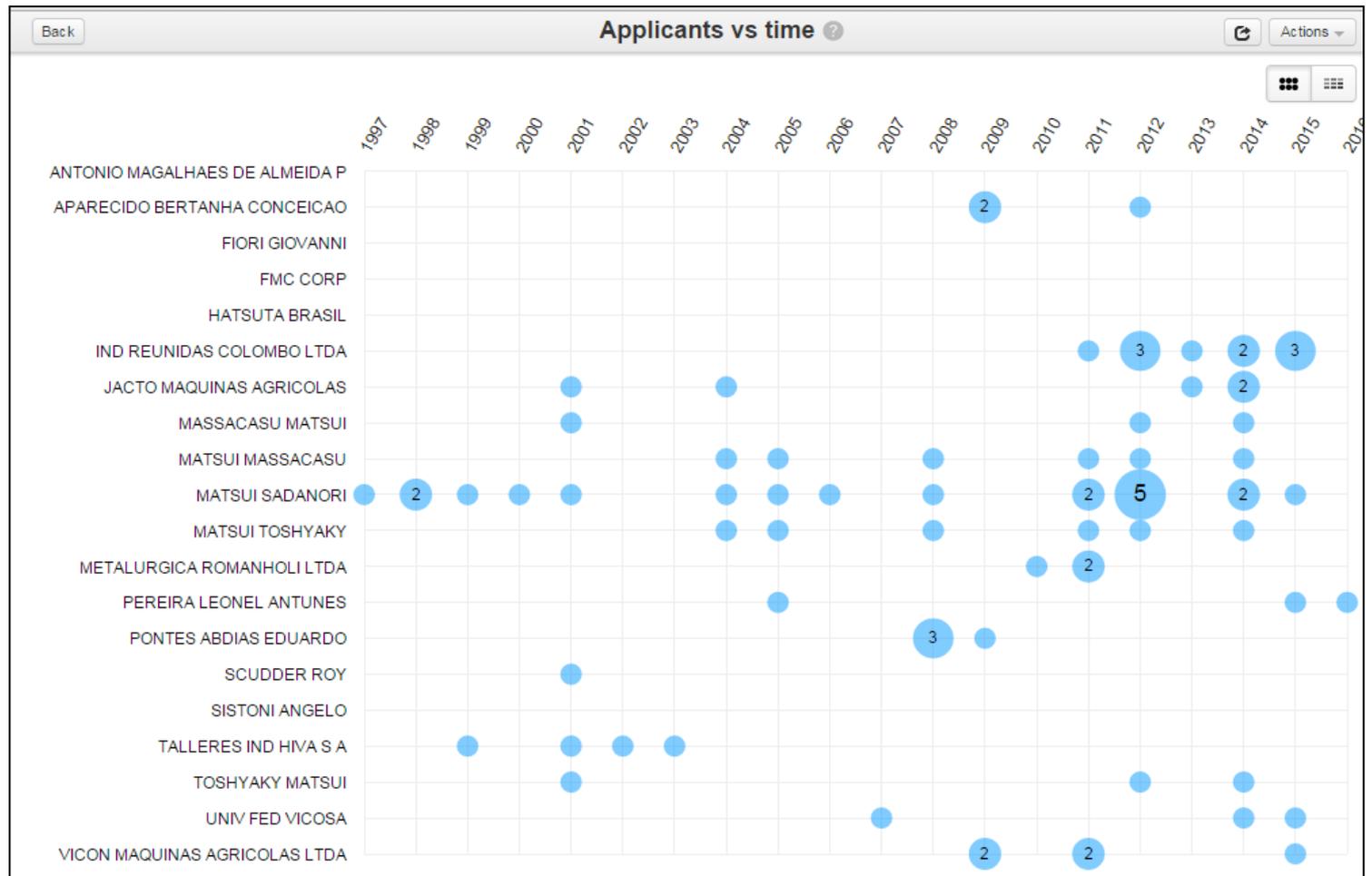
Applicant ? Actions

5 10 20 30 40 5

ANTONIO MAGALHAES DE ALMEIDA P • APARECIDO BERTANHA CONCEICAO  
BERTANHA CONCEICAO APARECIDO • BRUDDEN EQUIP • CAMIC CAJURU MAQUINAS IND E CO  
DA CONCEICAO JESIVALDO PEREIRA • FEDERACION NAC DE CAFETEROS DE COLOMBIA • FIORI GIOVANNI  
**FMC CORP** • FORSTER NILBERTO JOAO • GUIMARAES FRANCISCO DOS REIS F • HATSUTA BRASIL  
HIDALGO VARGAS EDGAR • HOROWICZ ADOLFO • IGUACUMEC ELETROMECHANICA LTDA  
**IND REUNIDAS COLOMBO LTDA** • INOVACAO EM MECANIZACAO AGRICOLA CEIFA LTDA  
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MASSACASU MATSUI • MATSUI MASSACASU • **MATSUI SADANORI**  
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NISHIMURA TAKASHI • PEREIRA LEONEL ANTUNES • PEREIRA SALVIO • PONTES ABDIAS EDUARDO  
RUY PAMPLONA • SCUDDER ROY • SHUNICHI OBATA • **SISTONI ANGELO** • SPIRLANDELLI AUGUSTO  
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**VICON MAQUINAS AGRICOLAS LTDA**

# Evolución en el tiempo por empresa

Patentinspiration.com



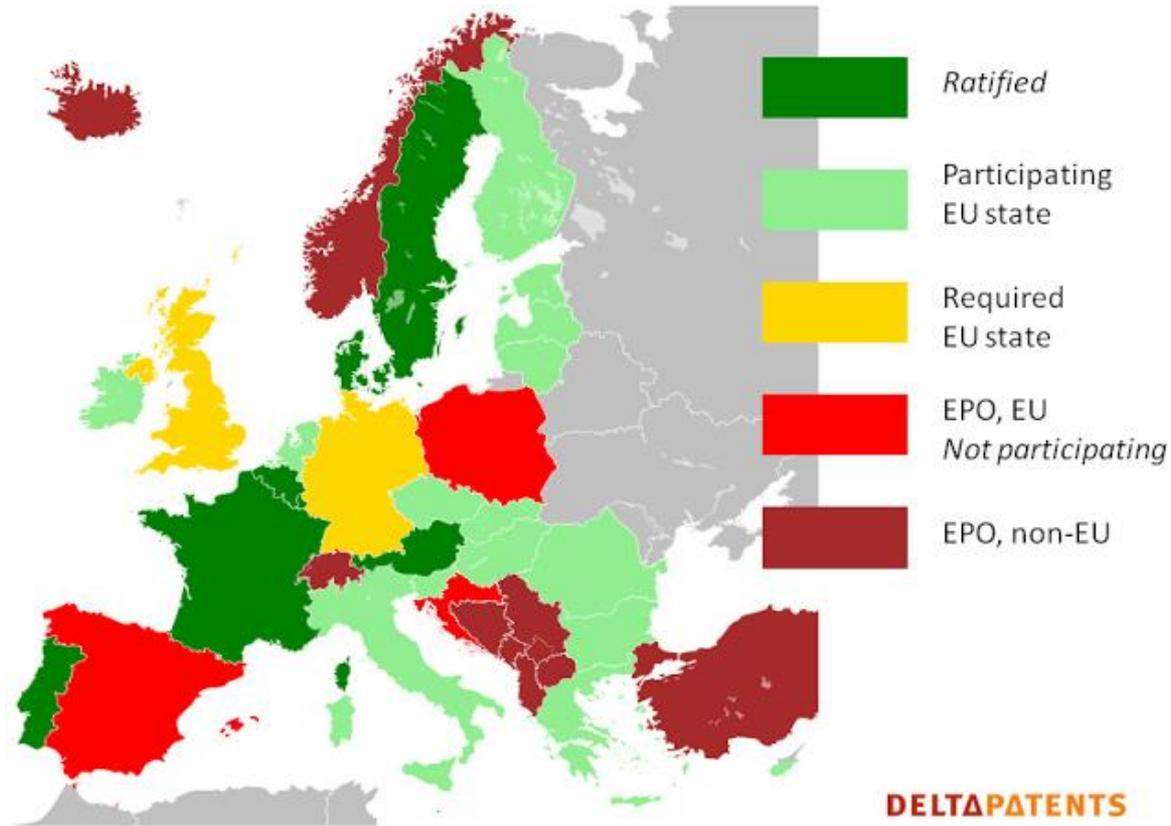
# Estrategias de protección

- ✓ Recursos financieros para presentar, llegar hasta la concesión y pagar anualidades
- ✓ Aprovecharnos del derecho de prioridad
- ✓ ¿ Patente provisional? ¿ Ir directo a EEUU ?
- ✓ ¿ Patentes nacionales vía derecho de prioridad?
- ✓ ¿ Patentes regionales (patente unitaria EP)
- ✓ ¿ Patente PCT ?
- ✓ ¿ Patente regionales?

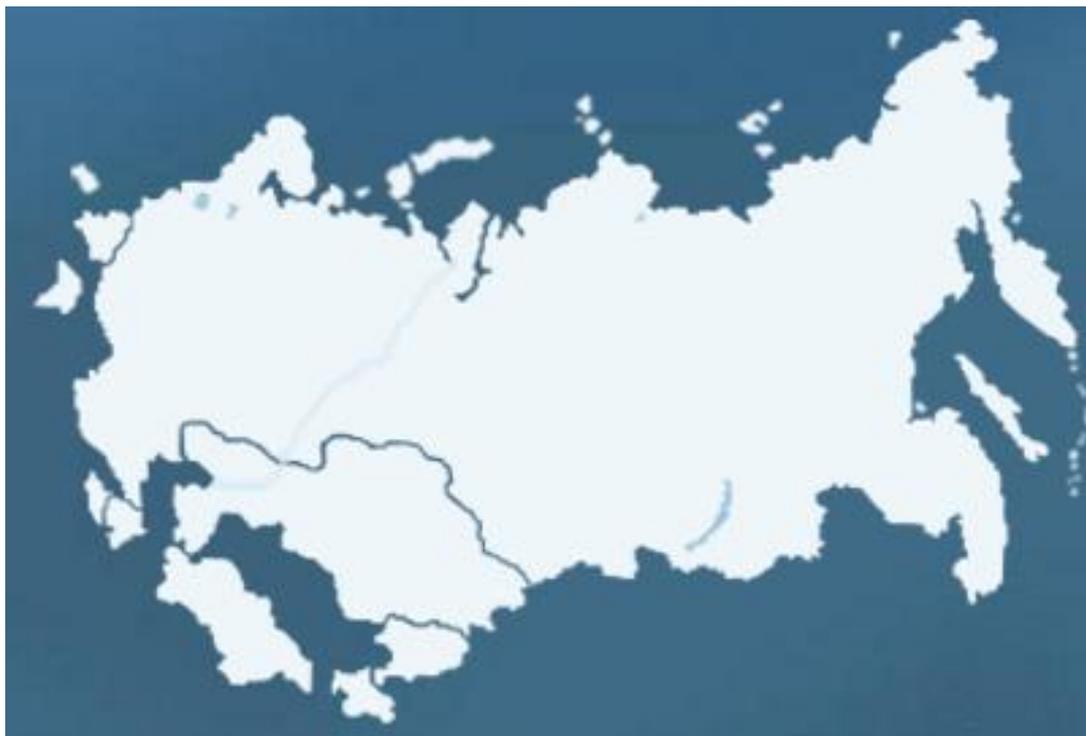


# Patentes Regionales

## - Patente Unitaria Europea -



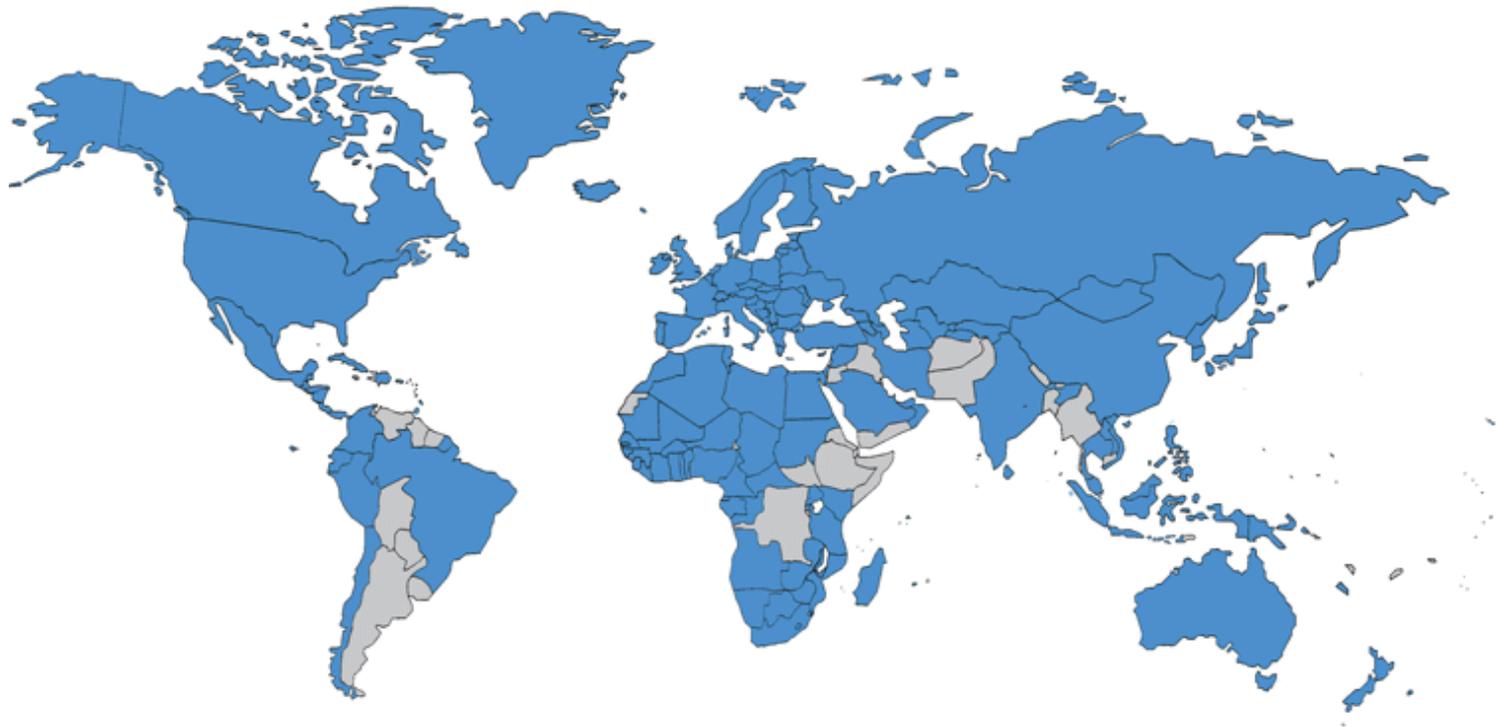
# Patente Eurasiática EAPO



-  Eurasian Patent Office
-  Turkmenistan
-  Republic of Belarus
-  Republic of Tajikistan
-  Russian Federation
-  Republic of Kazakhstan
-  Azerbaijan Republic
-  Kyrgyz Republic
-  Republic of Armenia
-  Republic of Moldova



# Tratado de Cooperación de Patentes



**PCT - 148 Países**

# Caso mecánico

Una empresa ha desarrollado en conjunto con la Universidad de su ciudad, una máquina para cosecha de caña de azúcar, y desea su analizar su patentamiento:

- ¿ En que países le aconsejaría patentar la invención?
- ¿ Que empresas debería contactar buscando socios o posible licenciarios ?
- ¿ Que lideres observaría en cuanto a estrategias de patentamiento?

# Encontrar la CIP

**Símbolo en uso**  
A01D 45/10

**Idioma**  
 Español  
 Inglés  
 Español/Inglés

**Modo vista**  
 trayectoria  
 completo  
 jerárquica

Mostrar CPC/Fl  
 Entradas Suprimidas  
 Esquema general  
 Encabezamientos-guías  
 Notas

**Búsqueda**

**Ayuda**

**Número de entradas mostradas**  
500

Última modificación  
26.02.2016  
IPCPUB v5.3

**ACTIVIDADES RURALES**

**A01 AGRICULTURA; SILVICULTURA; CRIA; CAZA; CAPTURA; PESCA**

**A01D RECOLECCION; SIEGA**

Nota(s) [7]  
La presente subclase  cubre  el desfibrado o pulverización de rastrojo, p. ej. con el objeto de producir pajote, pero  no cubre  otros tipos de destrucción mecánica de vegetales, los cuales están cubiertos por el grupo **A01M 21/02** . [7]

**A01D 45/00 Recolección de especies verticales (A01D 44/00 tiene prioridad; máquinas trilladoras adaptadas para cosechas especiales, dispositivos de trillado para cosechadoras-trilladoras adaptados para cosechas especiales A01F 11/00) [2006.01]**

**A01D 45/10** · para la **caña** de azúcar [2006.01]

Búsqueda de Términos ...

cip.oepm.es/ipcpub/search/fulltext/#v...

**IPC Terms search**  
Version 2016.01 - Español

Word(s) cosechadora caña  
Warning: AND, OR, NOT, +, -, double quotes and ~ operators are ignored when using Path option.  
 Stemming

Limit to

Exclude

Scheme  Path  
**A01D 45/10**

# Encontrar la CPC



Europäisches Patentamt  
European Patent Office  
Office européen des brevets

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**Classification search**

Quick help

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- [How do I enter classification symbols?](#)
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- [Can I retrieve a classification using keywords?](#)
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### Cooperative Patent Classification

Search for   View section **Index** | A | B | C | D | E | F | G | H | Y

A »

Symbol	Classification and description	
<input type="checkbox"/> A	HUMAN NECESSITIES	
<input type="checkbox"/> B	PERFORMING OPERATIONS; TRANSPORTING	
<input type="checkbox"/> C	CHEMISTRY; METALLURGY	
<input type="checkbox"/> D	TEXTILES; PAPER	
<input type="checkbox"/> E	FIXED CONSTRUCTIONS	
<input type="checkbox"/> F	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING ENGINES OR PUMPS	
<input type="checkbox"/> G	PHYSICS	

# CPC

Smart search  
Advanced search  
**Classification search**

Quick help

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- [What is the meaning of the stars in front of the classifications found?](#)
- [What does the text in brackets mean?](#)

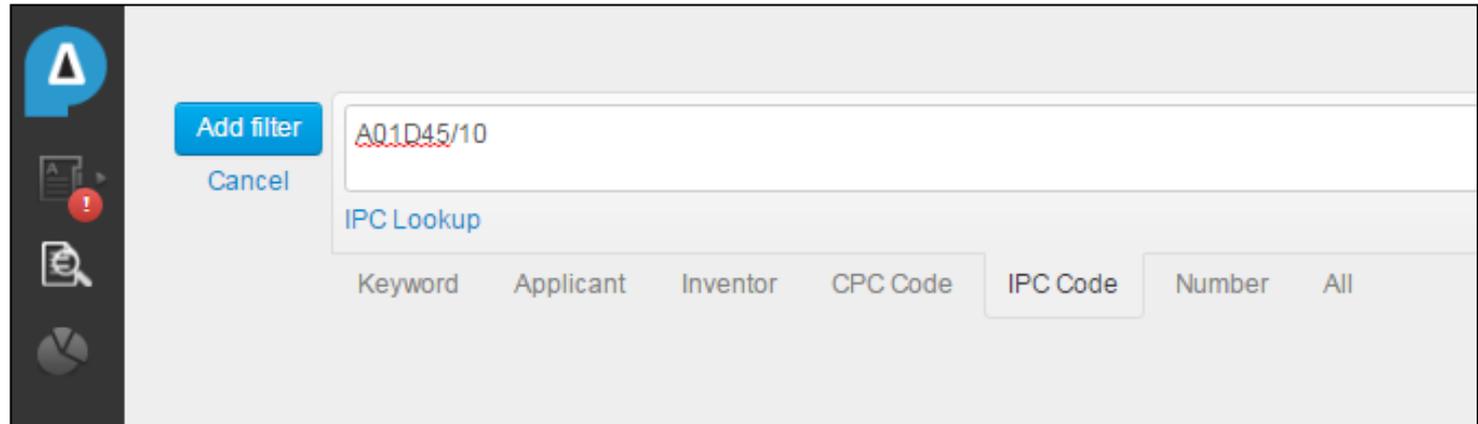
## Cooperative Patent Classification

Search for  Search View section | Index **A** | B | C | D | E | F | G | H | Y |

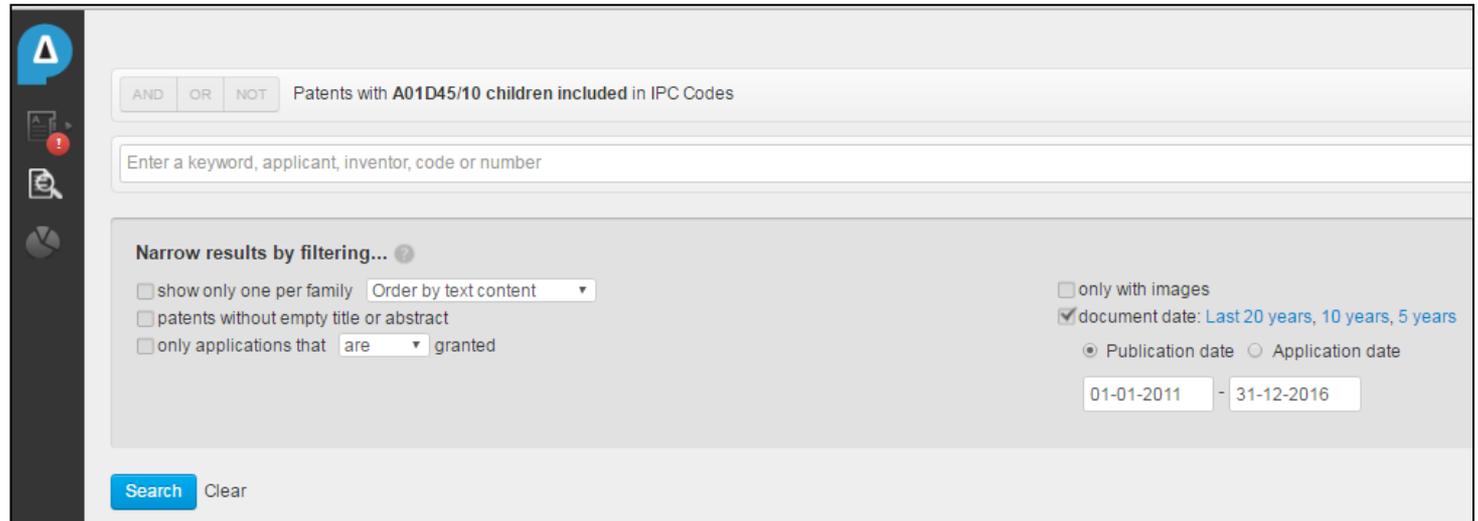
« [A01D44/00](#) [A01D46/00](#) »

Symbol	Classification and description	
<input type="checkbox"/> <b>A</b>	HUMAN NECESSITIES	<b>S</b>
<b>AGRICULTURE</b>		
<input type="checkbox"/> <b>A01</b>	AGRICULTURE; FORESTRY; ANIMAL HUSBANDRY; HUNTING; TRAPPING; FISHING	
<input type="checkbox"/> <b>A01D</b>	HARVESTING; MOWING <b>{{(parts, details or accessories of agricultural machines or implements in general <a href="#">A01B 51/00</a> - <a href="#">A01B 75/00</a>)}}</b>	<b>S</b> <b>D</b> <b>I</b>
<b>Harvesters or mowers for grass, cereals, or other crops (component parts thereof <a href="#">A01D 57/00</a> - <a href="#">A01D 69/00</a>; accessories therefor <a href="#">A01D 75/00</a>)</b>		
<input type="checkbox"/> <b>A01D 45/00</b>	<b>Harvesting of standing crops (<a href="#">A01D 44/00</a> takes precedence; threshing machines adapted for special crops, threshing devices for combines adapted for special crops <a href="#">A01F 11/00</a>)</b>	<b>D</b>
<input type="checkbox"/> <b>A01D 45/10</b>	<b>• of sugar cane <b>{{(for digging sugar cane <a href="#">A01D 31/00</a>)}}</b></b>	<b>D</b>

# Patentinspiration: planteo de búsqueda



This screenshot shows the 'Add filter' dialog box in the Patentinspiration search interface. The dialog has a blue 'Add filter' button and a grey 'Cancel' button. A text input field contains the code 'A01D45/10'. Below the input field, the text 'IPC Lookup' is displayed. At the bottom of the dialog, there are several tabs: 'Keyword', 'Applicant', 'Inventor', 'CPC Code', 'IPC Code' (which is currently selected), 'Number', and 'All'. On the left side of the dialog, there is a vertical sidebar with icons for home, help, search, and a pie chart.



This screenshot shows the search results and filtering options in the Patentinspiration search interface. At the top, there are three buttons: 'AND', 'OR', and 'NOT', followed by the text 'Patents with A01D45/10 children included in IPC Codes'. Below this is a search input field with the placeholder text 'Enter a keyword, applicant, inventor, code or number'. Underneath the search field is a section titled 'Narrow results by filtering...' with a help icon. This section contains several checkboxes and options: 'show only one per family' (unchecked), 'patents without empty title or abstract' (unchecked), 'only applications that are granted' (unchecked), 'only with images' (unchecked), and 'document date: Last 20 years, 10 years, 5 years' (checked). Below these options are radio buttons for 'Publication date' (selected) and 'Application date' (unchecked). At the bottom of the filtering section, there is a date range selector showing '01-01-2011' to '31-12-2016'. At the very bottom of the interface, there are 'Search' and 'Clear' buttons.

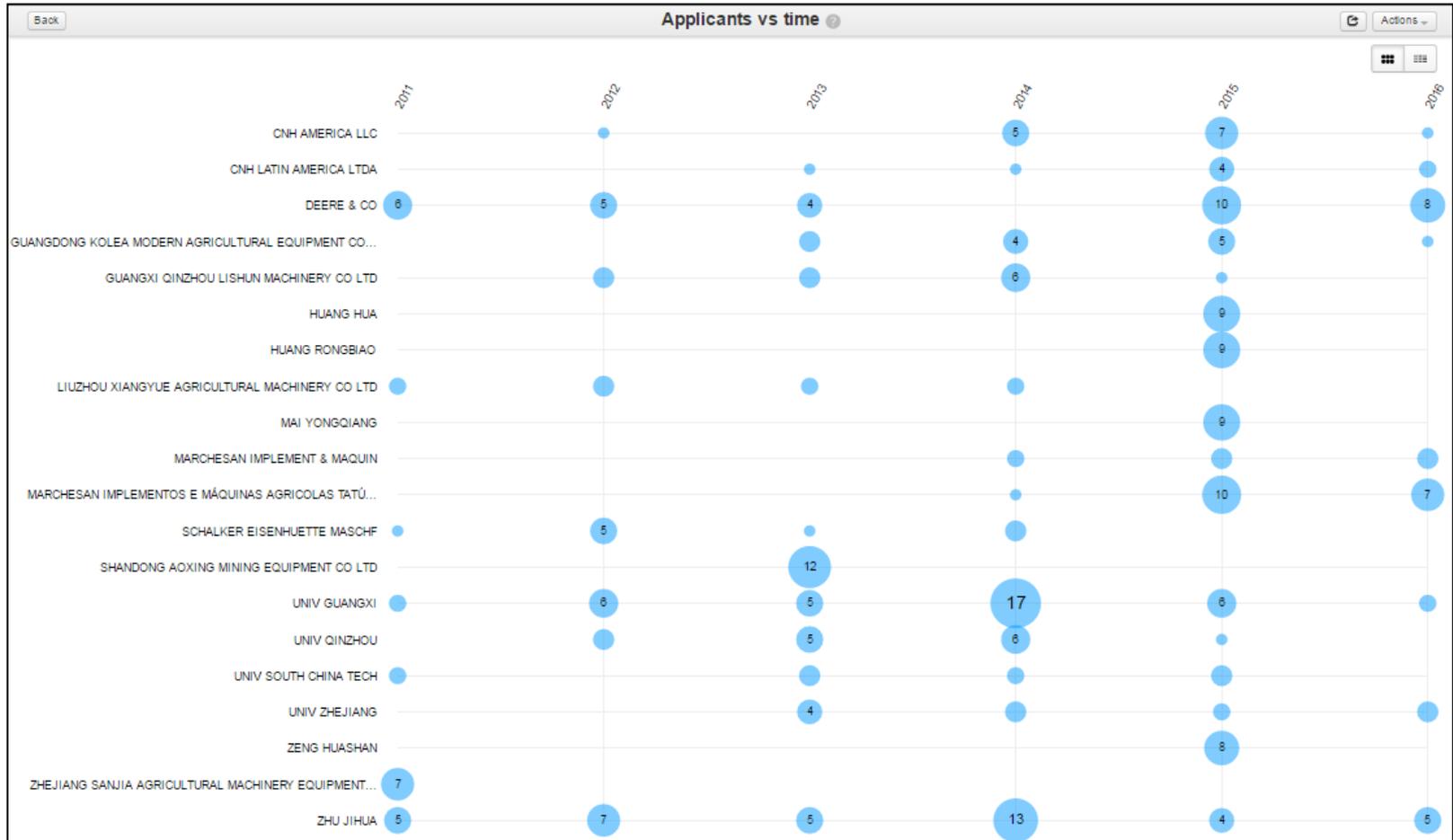
# Patentinspiration: resultados

<a href="#">Edit filter</a> <a href="#">Analyze patents</a>		871 patents		
<input type="checkbox"/>	Number	Title	Published	Applicant
<input type="checkbox"/>	<a href="#">CN105555126A</a>	Rotor of an extractor-fan assembly for agricultural machines	3 May 2016	
<input type="checkbox"/>	<a href="#">CN205196350U</a>		3 May 2016	
<input type="checkbox"/>	<a href="#">CN205179778U</a>		26 Apr 2016	
<input type="checkbox"/>	<a href="#">CN103563555B</a>	Primary conveying device for sugarcane harvester	19 Apr 2016	GUANGDONG KO...
<input type="checkbox"/>	<a href="#">CN105501443A</a>		19 Apr 2016	
<input type="checkbox"/>	<a href="#">US9317979B2</a>	Crop density map using row sensors	18 Apr 2016	DEERE & CO
<input type="checkbox"/>	<a href="#">BR102014021086A2</a>	Mancal do extrator primário de colhedoras de cana-de-açúcar	18 Apr 2016	UNIMIL IND E CO...
<input type="checkbox"/>	<a href="#">BR222015007945Y1</a>	Colhedora de cana-de-açúcar dotada de sistema de giro da esteira secundária	18 Apr 2016	MARCHESAN IMP...
<input type="checkbox"/>	<a href="#">AU2011247841B2</a>	Basecutter for a cane harvester	13 Apr 2016	DEERE & CO
<input type="checkbox"/>	<a href="#">CN104335764B</a>	Chopping type micro cane harvesting machine	12 Apr 2016	GUANGXI GAONO...
<input type="checkbox"/>	<a href="#">CN105474879A</a>		12 Apr 2016	
<input type="checkbox"/>	<a href="#">CN105491875A</a>	Method and apparatus for control of base cutter height for multiple row sugar cane harvesters	12 Apr 2016	
<input type="checkbox"/>	<a href="#">BR102014023129A2</a>	Cortador de cana	11 Apr 2016	MESQUITA EDNA...
<input type="checkbox"/>	<a href="#">BR102015009517A2</a>	Colheitadeira de cana-de-açúcar, método para colher uma safra em um campo, e, meio de armazenamento...	11 Apr 2016	DEERE & CO
<input type="checkbox"/>	<a href="#">BR102015011143A2</a>	Defletor para uma colheitadeira de cana-de-açúcar, e, arranjo de limpeza de cana-de-açúcar	11 Apr 2016	DEERE & CO
<input type="checkbox"/>	<a href="#">BR222015007942Y1</a>	Colhedora de cana-de-açúcar dotada de volante de mesa	11 Apr 2016	MARCHESAN IMP...
<input type="checkbox"/>	<a href="#">AU2011247839B2</a>	Basecutter assembly for a cane harvester	6 Apr 2016	DEERE & CO

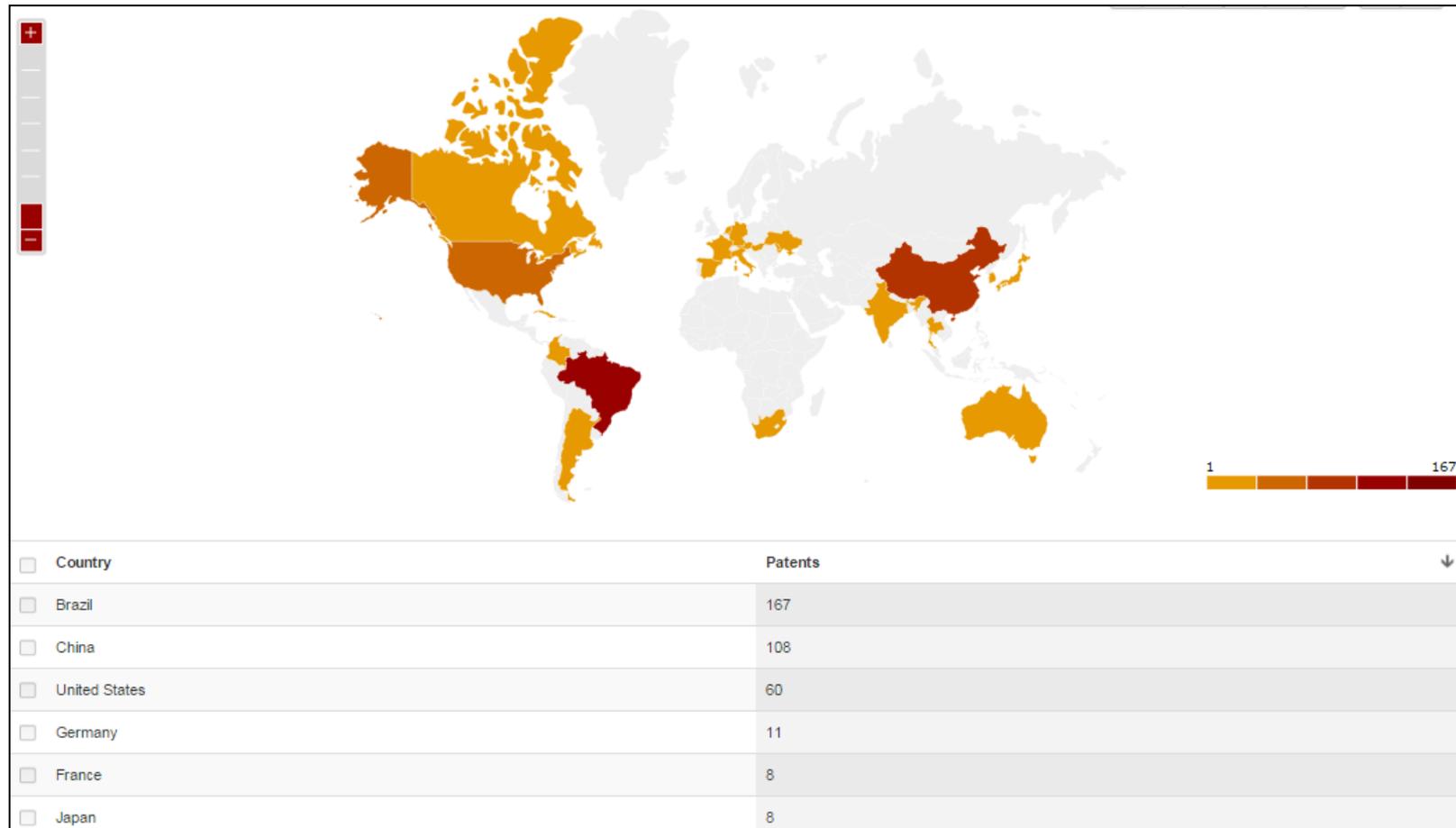
# Patentinspiration: principales solicitantes

Applicant
ADAM DE VILLIERS JACQUES • BELLOTA HERRAMIENTAS SA • BLOUNT IND LTDA • BUNMEI NOKI KK • BUSSOLA CLAUDIO LEANDRO • BUSSOLA GAGLIOTTI MARLI REGINA • CN ACAD AGRICULTURAL MECH SCI
<b>CNH AMERICA LLC</b> • CNH LATIN AMERICA LTDA • DACHENG LUO • <b>DEERE &amp; CO</b> • FANG SUNDIAN • FRANCISCO ZANGRANDI CECILIA
<b>GUANGDONG KOLEA MODERN AGRICULTURAL EQUIPMENT CO LTD</b>
<b>GUANGXI QINZHOU LISHUN MACHINERY CO LTD</b> • GUANGXI UTS AGRICULTURAL SCIENCE AND TECHNOLOGY CO LTD
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LIUZHOU XIANGYUE AGRICULTURAL MACHINERY CO LTD • MAI YONGQIANG • MARCHESAN IMPLEMENT & MAQUIN
<b>MARCHESAN IMPLEMENTOS E MÁQUINAS AGRICOLAS TATÚ S A</b> • QINZHOU JUNHUI MACHINERY CO LTD
RIBERMAN PLASTICOS IND LTDA • SCHALKER EISENHUETTE MASCHF • SHANDONG AOXING MINING EQUIPMENT CO LTD
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ZENG HUASHAN • ZHEJIANG SANJIA AGRICULTURAL MACHINERY EQUIPMENT CO LTD
ZHONGSHOUXIN GUIZHOU MODERN AGRICULTURAL EQUIPMENT CO LTD • <b>ZHU JIHUA</b> • ZOOMLION HEAVY MACHINERY CO LTD

# Patentinspiration: evolución por solicitante



# Países con mayor I&D



# Lens.org: planteo de búsqueda

## Structured Search

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**Query** Query Predicate:

in

in

**Dates:**

Documents That Were:  Published

Filed

**Jurisdictions**

Only search patent documents that are  the following jurisdictions. Select None

<input checked="" type="checkbox"/> Armenia	<input checked="" type="checkbox"/> ARIPO	<input checked="" type="checkbox"/> Argentina
<input checked="" type="checkbox"/> Austria	<input checked="" type="checkbox"/> Australia	<input checked="" type="checkbox"/> Bosnia And Herzegovina
<input checked="" type="checkbox"/> Belgium	<input checked="" type="checkbox"/> Bulgaria	<input checked="" type="checkbox"/> Brazil

# Lens.org: Resultados

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Home > **949** (783 families) results for "classification\_ipc:A01D45V10"

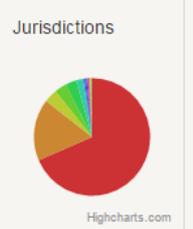
### Results Analysis

**Inventors**



Highcharts.com

**Jurisdictions**



Highcharts.com

### Refine Search

[Clear All](#)

**Dates** 1 ^

**Documents**  Published  Filed

Custom Range 2011-01-01 2016-04-01

[Clear](#) [Refine](#)

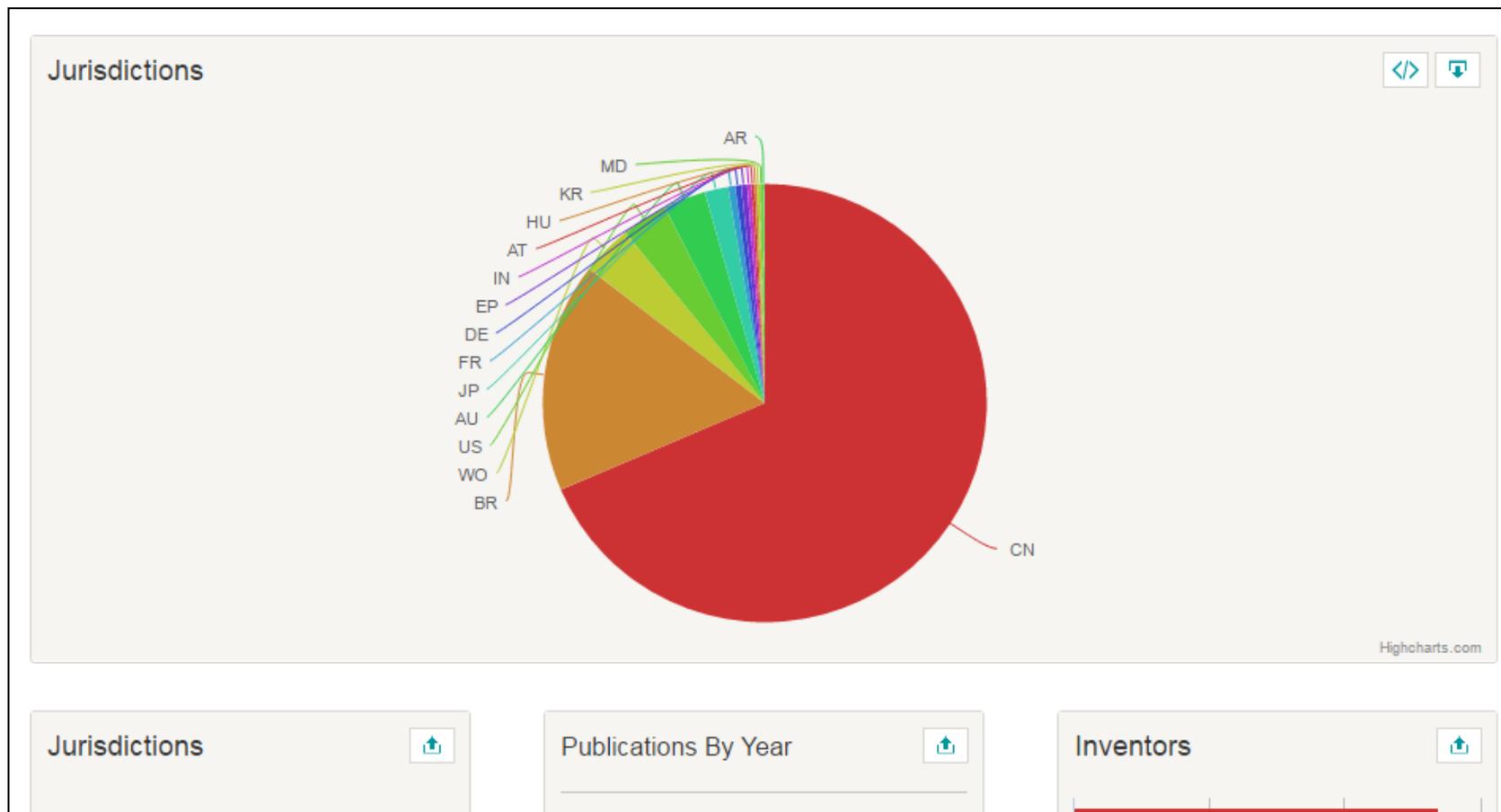
[Refine](#) [New Search](#) 

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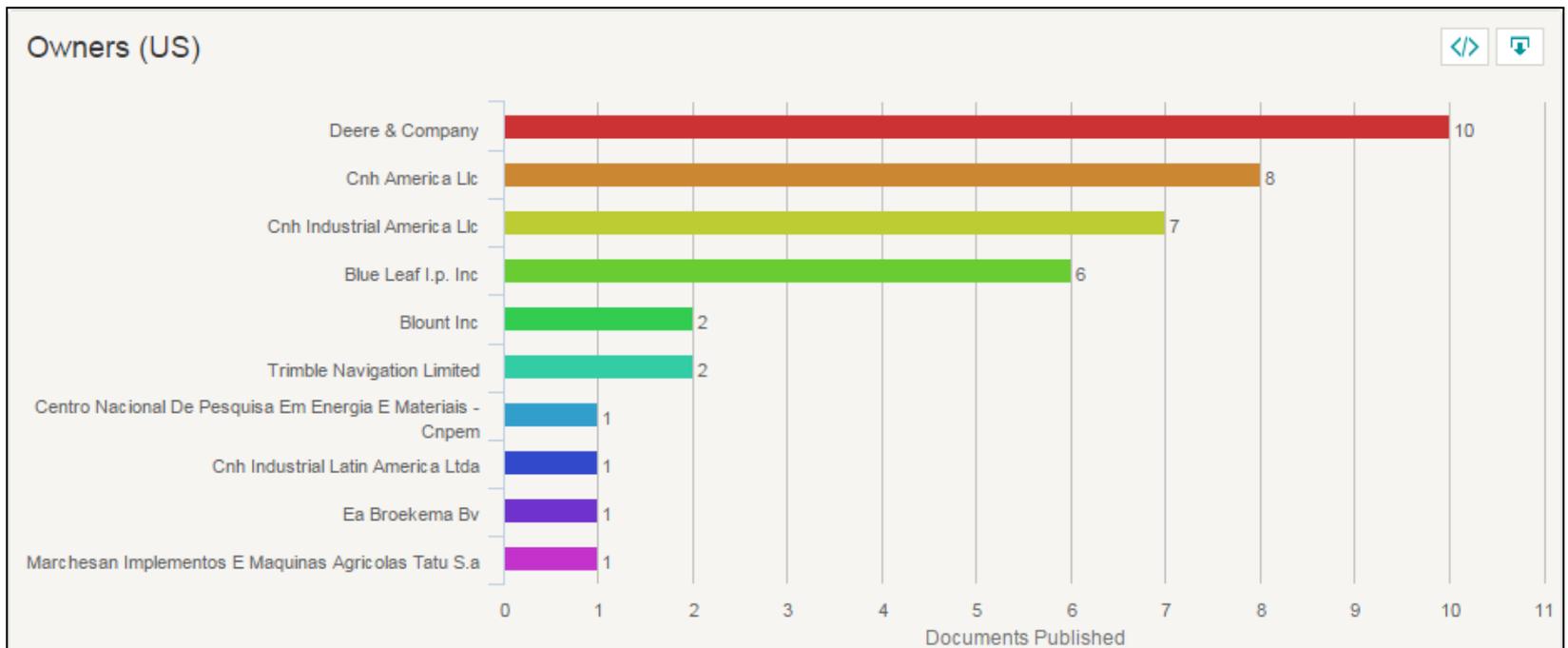
     

<input checked="" type="checkbox"/>	Document	Sort by	Rank
<input type="checkbox"/>	<b>Sistema De Separacion De Hojas De Cana De Azucar O Productos Similares</b> Published: <b>Feb 23, 2011</b> Family: 1 Cited: 0 Info: Applicant: <b>Echezarreta Javier Andres</b>	 <b>AR 074940 A3</b> Doc type: Patent Application ID: <a href="#">lens.org/118-372-439-389-793</a>	
<input type="checkbox"/>	<b>Sammelvorrichtung Für Mähwerk</b> Published: <b>Nov 15, 2012</b> Family: 3 Cited: 0 Info: Applicant: <b>Steininger Werner</b>	 <b>AT 511385 A1</b> Doc type: Patent Application ID: <a href="#">lens.org/082-625-445-762-070</a>	
<input type="checkbox"/>	<b>Sammelvorrichtung Für Mähwerk</b> Published: <b>Feb 15, 2013</b> Family: 3 Cited: 0 Info: Applicant: <b>Steininger Werner</b>	 <b>AT 511385 B1</b> Doc type: Granted Patent ID: <a href="#">lens.org/064-350-459-582-158</a>	
<input type="checkbox"/>	<b>Colheitadeira Para Colher Talos De Plantas Tipo Talo, E, Cortador De Base Para</b>	 <b>BR 102012006658 A2</b>	

# Lens.org: países de patentamiento



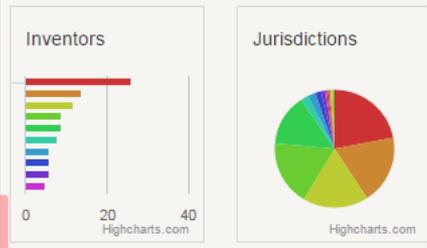
# Lens.org: Owner (US)



# Lens : CPC

Home > 191 (69 families) results for "classification\_cpc:A01D45V10"

## Results Analysis



## Refine Search

Clear All

Dates



Documents  Published  Filed

Custom Range

classification\_cpc:A01D45V10

Refine

New Search



**Collection Management:** allows you to create, add to, manage and edit collections of search results.

Create Collection



Document

Sort by Rank

- |                          |                          |                                     |  |  |
|--------------------------|--------------------------|-------------------------------------|--|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <p>Colheitadeira Para Colher Talos De Plantas Tipo Talo, E, Cortador De Base Para Uma Colheitadeira</p> <p>Published: Jun 4, 2013 Family: 5 Cited: 0 Info:</p> <p>Applicant: Deere &amp; Co</p>  | <p> BR 102012006658 A2</p> <p>Doc type: Patent Application</p> <p>ID: lens.org/065-057-163-588-714</p> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <p>Dispositivo Transportador-separador Dinamométrico Acoplável A Uma Colhedora De Cana-de-açúcar E Processo De Transferência De Rebolos E Palha Da Colhedora Para Um Veículo De Transbordo</p> <p>Published: Mar 17, 2015 Family: 2 Cited: 0 Info:</p> <p>Applicant: Cnpem Ct Nac De Pesquisa Em En E Mat...</p> | <p> BR 102013005854 A2</p> <p>Doc type: Patent Application</p> <p>ID: lens.org/035-544-615-125-842</p> |

# Deere & Co: Familia de patentes

## Colheitadeira Para Colher Talos De Plantas Tipo Talo, E, Cortador De Base Para Uma Colheitadeira

Published: Jun 4, 2013 Family: 5

Download:  Family Member PDF

 BR 102012006658 A2

Doc Type: Patent Application

ID: lens.org/065-057-163-588-714

5 documents in this family 

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# Marchesan Impl.: Familia de patentes

## Dispositivo De Linhas Contendo Pirulito De Secção Transversal Variável E Máquina Colhedora De Cana-de-açúcar

Published: Nov 11, 2014 Family: 6

Download: [Family Member PDF](#)

 BR 102013007097 A2

Doc Type: Patent Application

ID: [lens.org/105-454-645-986-609](https://lens.org/105-454-645-986-609)

6 documents in this family 

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**¿ Dudas, consultas ?**

**Muchas gracias !**

**Pablo Paz**

**E-mail: [pablo\\_paz@hotmail.com](mailto:pablo_paz@hotmail.com)**