



# WIPO Patent Information Services

William Meredith

April 2008

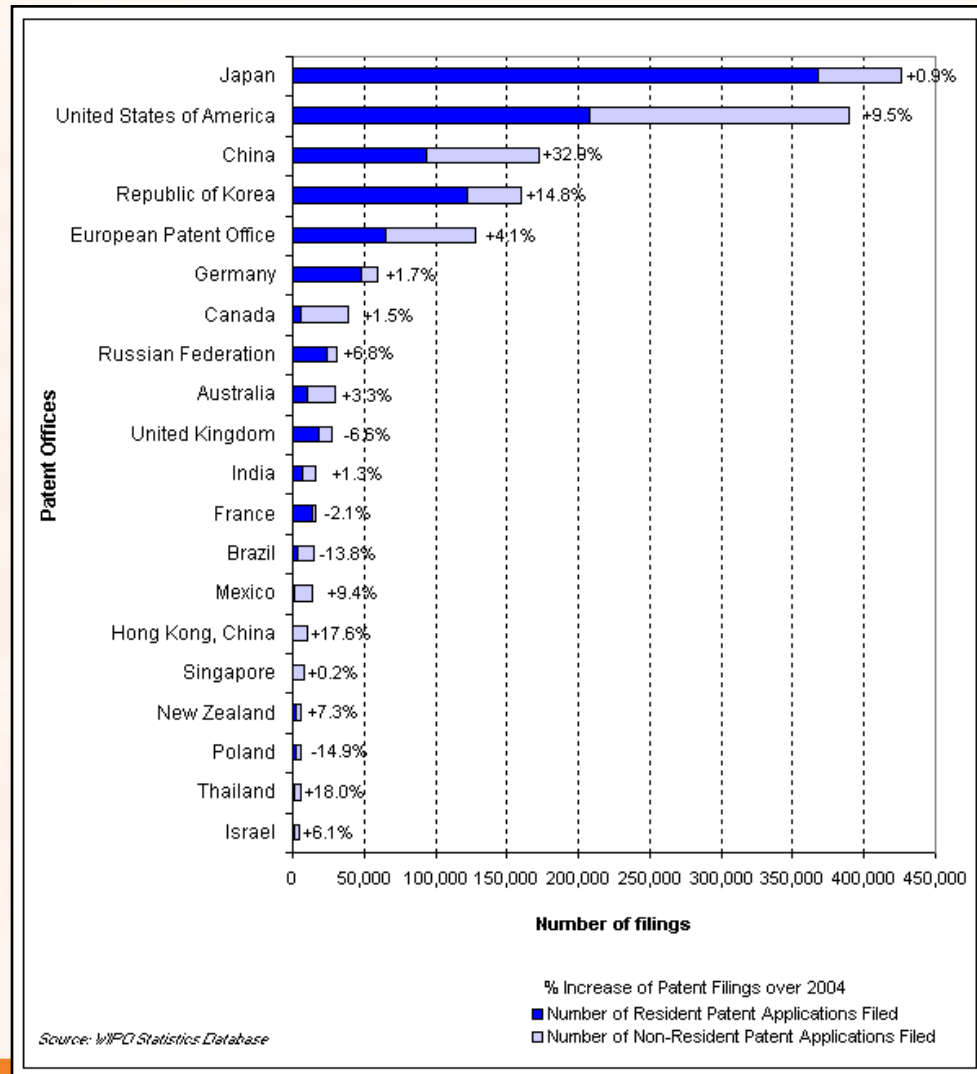


WORLD  
INTELLECTUAL  
PROPERTY  
ORGANIZATION

# Overview

- WIPO's Patent Information Objectives
- PATENTSCOPE®
- Analysis Tools
- Future Plans

# The context of Patent Information



- 1.6 Million new applications disclosed every year.
- An important resource of technical information.
- Increasing diversity of:
  - Countries of Origin
  - Countries of Filing
  - Languages
  - Users

# WIPO's Patent Information Objectives

## 1. Publication and Dissemination of PCT International Applications

- Electronic Publication via PATENTSCOPE<sup>®</sup>
- PCT Data Production - dissemination of high-volume data to offices and subscribers

## 2. Enhanced Utilisation of Patent Information

- Seminars, workshops, etc
- Guides, tutorials
- Technology studies, patent landscapes, particularly on issues related to public policy
- Technical assistance projects with member states - Integration of more data

# What is PATENTSCOPE<sup>®</sup> ?


- WIPO's Patent Information Portal
- Database of 1.4 million international patent applications (PCT)
- Features:
  - Full text search
  - Status information
  - Graphical analysis tools
  - RSS notifications
  - Technology Focus

# PATENTSCOPE<sup>®</sup> Search

Results of searching in PCT for:  
(HPAI OR H5N1 ) and ( vaccine\* or antigen\* ): 710 records  
Showing records 1 to 25 of 710 :

[\[Search Summary\]](#)

Next 25 records | Start At

Refine Search  [RSS](#) 

Score	Title	Pub. Date	Int. Class	App. Num	Applicant
1. (099)	<a href="#">(WO 2007/092792) YEAST-BASED VACCINE FOR INDUCING AN IMMUNE RESPONSE</a>	16.08.2007	A61K 39/02	PCT/US2007/061572	GLOBEIMMUNE, INC.
<p>The invention provided herein relates to <b>vaccines</b> that can be tailored to achieve a desired immune response. Some compositions provided herein are used for preferentially eliciting a humoral immune response while other compositions are useful for preferentially eliciting a cell-mediated response. Combinations of <b>vaccine</b> compositions are also useful for eliciting both types of responses and/or for modulating the type of immune response elicited. The invention also provides methods for eliciting an immune response in an individual by administering the compositions disclosed herein. These immune responses are useful for protecting an individual from various types of diseases, infections, and undesirable conditions.</p>					
2. (069)	<a href="#">(WO 2006/076410) LI-KEY/ANTIGENIC EPI TOPE HYBRID PEPTIDE VACCINES</a>	20.07.2006	C07K 14/00	PCT/US2006/000944	ANTIGEN EXPRESS, INC.
<p>Disclosed is an <b>antigen</b> presentation enhancing hybrid polypeptide which includes three elements. The first element is an N-terminal element consisting essentially of 4-16 residues of the mammalian II-Key peptide LRMKLPKPPKPVSKMR (SEQ ID NO: _) and non-N-terminal deletion modifications thereof that retain <b>antigen</b> presentation enhancing activity. The second element is a chemical structure covalently linking the N-terminal element described above to the MHC Class II-presented epitope described below. The chemical structure is a covalently joined group of atoms which when arranged in a linear fashion forms a flexible chain which extends up to the length of 20 amino acids likewise arranged in a linear fashion, the chemical structure being...</p>					
3. (066)	<a href="#">(WO 2001/042445) USE OF RECOMBINANT PARAINFLUENZA VIRUSES (PIVs) AS VECTORS TO PROTECT AGAINST INFECTION AND DISEASE CAUSED BY PIV AND OTHER HUMAN PATHOGENS</a>	14.06.2001	A61K 39/00	PCT/US2000/033293	THE GOVERNMENT OF THE UNITED STATES OF AMERICA, asrepresented by THE DEPARTMENT OF HEALTH AND HUMAN SERVICES

Full text search in Description and/or Claims text

Unlimited Keywords

Bibliographic search (classification, applicant, inventor, dates, etc)

Boolean operators (AND, OR, NOT), truncation, range searches

# Status Information

- Patent rights are territorial (although disclosure is global)
- Patents may or may not be granted and may or may not remain valid and in force
- Patents are limited by the scope of their claims
- Status information is critical to understanding **what** is patented and **where**

# PATENTSCOPE® Documents

Biblio. Data	Description	Claims	National Phase	Notices	Documents
<b>Published International Application</b>					
Date	Title				
26.10.2006	Later publication of international search report (A3 43/2006)	view	download		
29.12.2005	Initial Publication without ISR (A2 52/2005)	view	download		
<b>Related Documents on file at the International Bureau (<a href="#">more information</a>)</b>					
Date	Title				
20.12.2006	International Preliminary Report on Patentability Chapter I (IPRP1)	view	download		
15.12.2006	Written Opinion of the International Search Authority (WOSA)	view	download		
05.12.2006	Notification of the Recording of a Change (IB306)	view	download		
29.12.2005	FI 20040827 15.06.2004 (Pr. Doc.)	view	download		
29.12.2005	Notification Concerning Submission or Transmittal of Priority Document (IB304)	view	download		

Published Documents and related file contents

Search reports (prior art)

Written opinions and preliminary examination reports (patentability)



# PATENTSCOPE<sup>®</sup> National Phase Status

(WO/2002/092812) ARTIFICIAL HUMAN CHROMOSOME CONTAINING HUMAN ANTIBODY  
 A LIGHT CHAIN GENE

Biblio. Data Description Claims National Phase Notices Documents

Available information on National Phase entries ([more information](#))

Office Code	National Entry Date	National Reference Number	Status
AU	04.12.2003	<a href="#">2002309063</a>	
CA	10.11.2003	<a href="#">2446968</a>	
CN	05.01.2004	<a href="#">02813520.2</a>	
JP	07.11.2003	2002589679	
KR	10.11.2003	<a href="#">1020037014594</a>	Published: 11.12.2003 Refused: 05.01.2006
US	12.11.2003	<a href="#">10477471</a>	Published: 20.07.2006

2.6 Million notification from  
 30+ offices



Legal status (where available)

Internet hyperlinks to certain  
 offices (further status  
 information, translations, etc)

# PATENTSCOPE® Graphics

1. Enter any search criteria

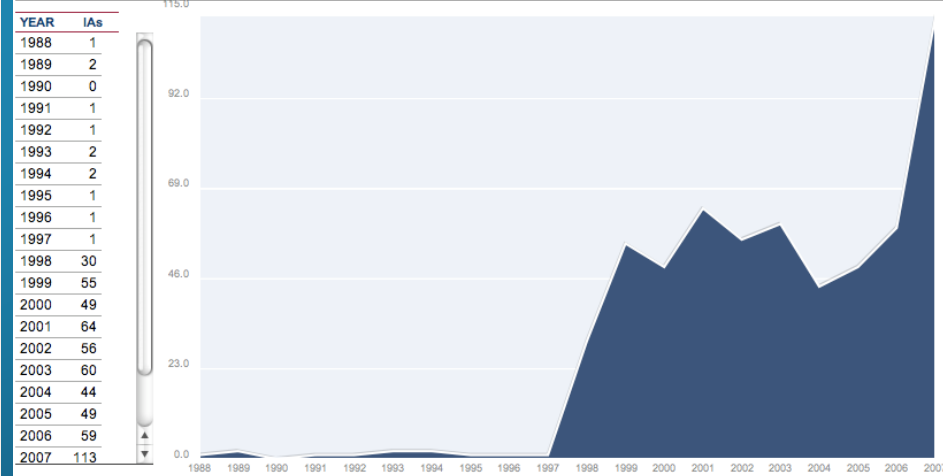
2. Click on the Graphics icon

Refine Search   

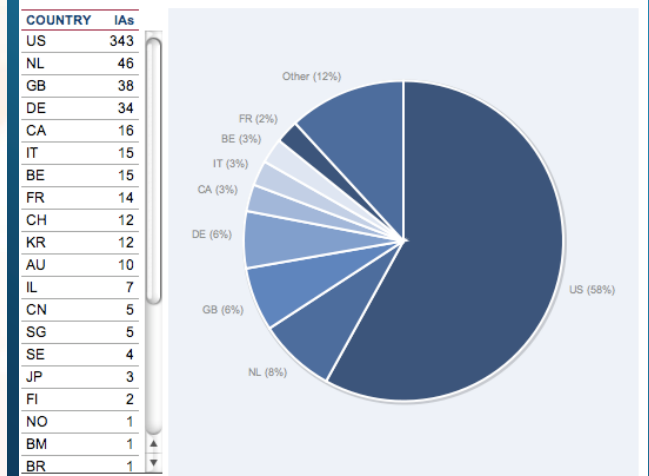
Score	Title	Pub. Date	Int. Class	App. Num	Applicant
1. (100)	<a href="#">(WO 2007/092792) YEAST-BASED VACCINE FOR INDUCING AN IMMUNE RESPONSE</a>	16.08.2007	A61K 39/145	PCT/US2007/061572	GLOBEIMMUNE, INC.
<p>The invention provided herein relates to <b>vaccines</b> that can be tailored to achieve a desired immune response. Some compositions provided herein are used for preferentially eliciting a humoral immune response while other compositions are useful for preferentially eliciting a cell-mediated response. Combinations of <b>vaccine</b> compositions are also useful for eliciting both types of responses and/or for modulating the type of immune response elicited. The invention also provides methods for eliciting an immune response in an individual by administering the compositions disclosed herein. These immune responses are useful for protecting an individual from various types of diseases, infections, and undesirable conditions.</p>					
2. (055)	<a href="#">(WO 2006/100111) COMPOSITION</a>	28.09.2006	A61K 39/39	PCT/EP2006/002838	GLAXOSMITHKLINE BIOLOGICALS S.A.
<p>The present invention relates to influenza <b>vaccine</b> formulations and vaccination regimes for immunising against various diseases. In particular the invention relates to <b>vaccine</b> formulations comprising an oil-in-water emulsion adjuvant and 3D-MPL, their use in medicine, in particular their use in augmenting immune responses to various antigens, and to methods of preparation, wherein the oil in water emulsion comprises a sterol, a metabolisable oil and an emulsifying agent.</p>					
3. (055)	<a href="#">(WO 2007/053696) RNAI INHIBITION OF INFLUENZA VIRUS REPLICATION</a>	10.05.2007	A61K 48/00	PCT/US2006/042681	ALNYLAM PHARMACEUTICALS, INC.
<p>The invention relates to compositions and methods for modulating the expression of influenza viral genes, and more particularly to the downregulation of influenza viral genes by chemically modified oligonucleotides</p>					

# PATENTSCOPE® Graphics

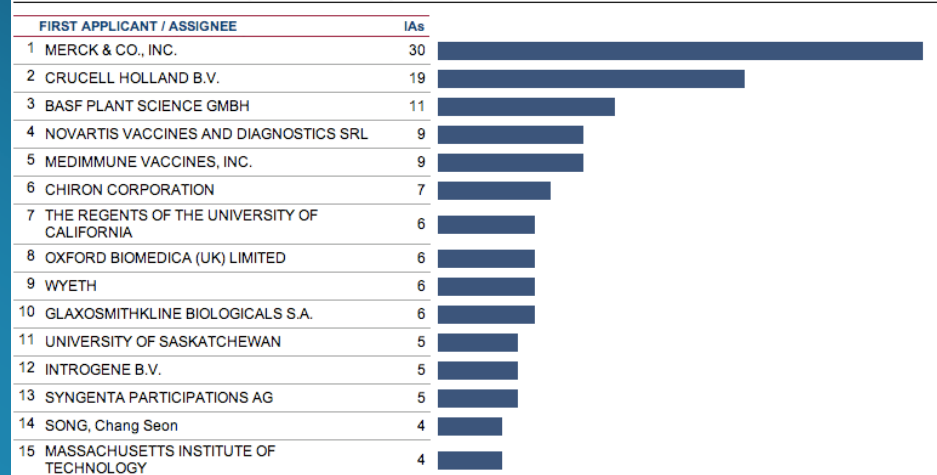
International Applications by Publication Year



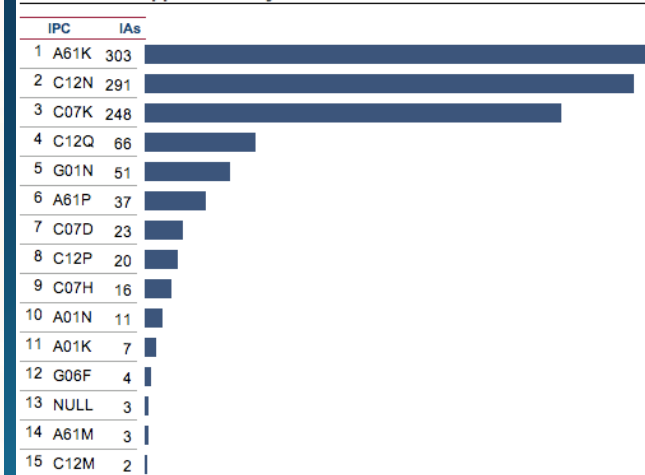
International Applications by Country of Origin



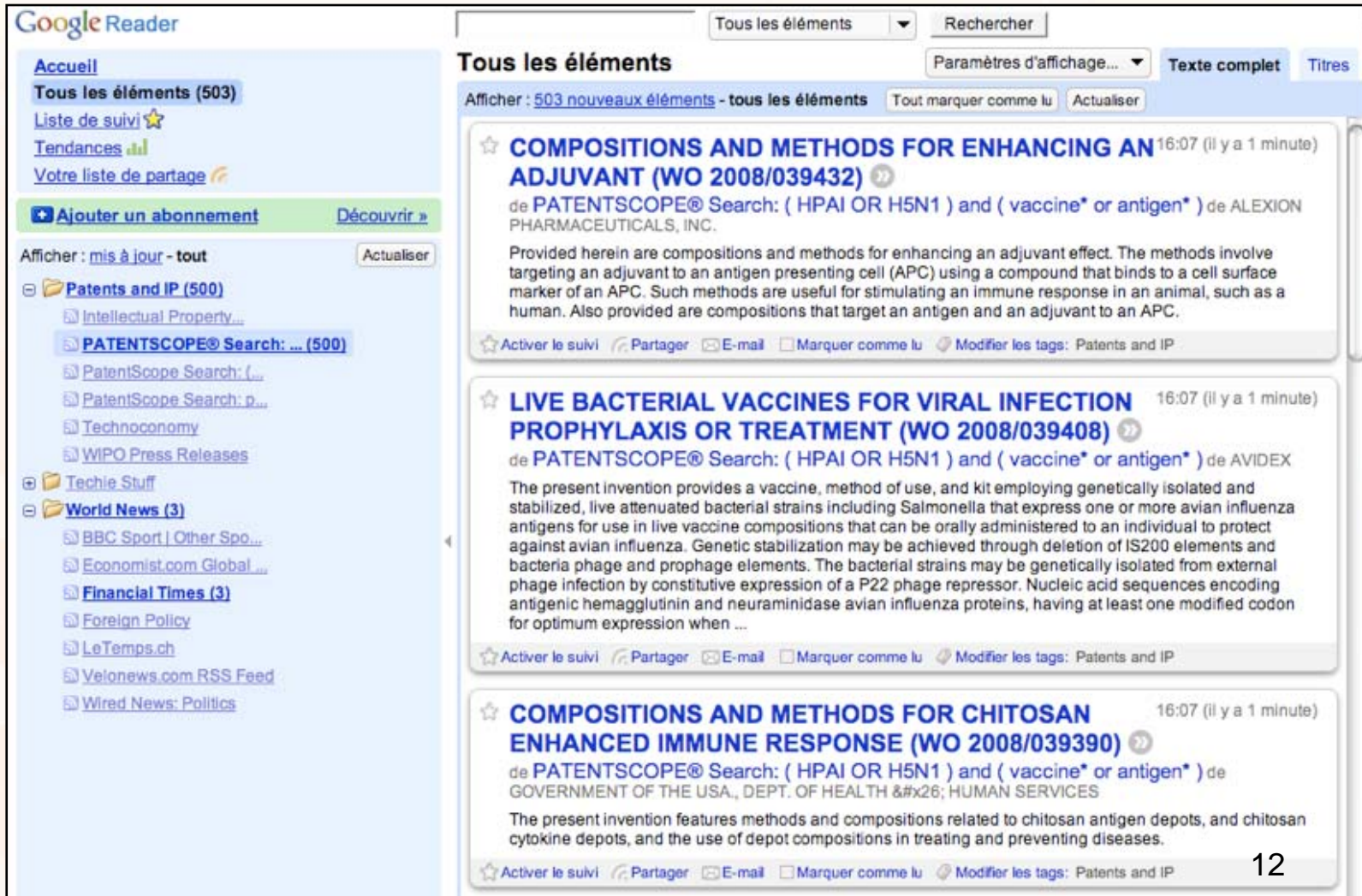
International Applications by Applicant/Assignee Name



International Applications by IPC subclass



# PATENTSCOPE® RSS Notifications



The screenshot shows the Google Reader interface with a list of feeds on the left and a main content area on the right. The feeds include 'Patents and IP (500)', 'PATENTSCOPE® Search: ... (500)', 'Techie Stuff', and 'World News (3)'. The main content area displays three patent notifications:

**Tous les éléments** | Rechercher | Paramètres d'affichage... | Texte complet | Titres

Afficher : 503 nouveaux éléments - tous les éléments | Tout marquer comme lu | Actualiser

☆ **COMPOSITIONS AND METHODS FOR ENHANCING AN ADJUVANT (WO 2008/039432)** 16:07 (il y a 1 minute)

de PATENTSCOPE® Search: ( HPAI OR H5N1 ) and ( vaccine\* or antigen\* ) de ALEXION PHARMACEUTICALS, INC.

Provided herein are compositions and methods for enhancing an adjuvant effect. The methods involve targeting an adjuvant to an antigen presenting cell (APC) using a compound that binds to a cell surface marker of an APC. Such methods are useful for stimulating an immune response in an animal, such as a human. Also provided are compositions that target an antigen and an adjuvant to an APC.

☆ Activer le suivi | Partager | E-mail | Marquer comme lu | Modifier les tags: Patents and IP

☆ **LIVE BACTERIAL VACCINES FOR VIRAL INFECTION PROPHYLAXIS OR TREATMENT (WO 2008/039408)** 16:07 (il y a 1 minute)

de PATENTSCOPE® Search: ( HPAI OR H5N1 ) and ( vaccine\* or antigen\* ) de AVIDEX

The present invention provides a vaccine, method of use, and kit employing genetically isolated and stabilized, live attenuated bacterial strains including Salmonella that express one or more avian influenza antigens for use in live vaccine compositions that can be orally administered to an individual to protect against avian influenza. Genetic stabilization may be achieved through deletion of IS200 elements and bacteria phage and prophage elements. The bacterial strains may be genetically isolated from external phage infection by constitutive expression of a P22 phage repressor. Nucleic acid sequences encoding antigenic hemagglutinin and neuraminidase avian influenza proteins, having at least one modified codon for optimum expression when ...

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☆ **COMPOSITIONS AND METHODS FOR CHITOSAN ENHANCED IMMUNE RESPONSE (WO 2008/039390)** 16:07 (il y a 1 minute)

de PATENTSCOPE® Search: ( HPAI OR H5N1 ) and ( vaccine\* or antigen\* ) de GOVERNMENT OF THE USA., DEPT. OF HEALTH &#x26; HUMAN SERVICES

The present invention features methods and compositions related to chitosan antigen depots, and chitosan cytokine depots, and the use of depot compositions in treating and preventing diseases.

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# Demonstration

## Some Caveats

- Searching by simple keywords can lead to mis-interpretation. Beware of:
  - Ambiguity
  - Semantics
  - Obfuscation
- Search by classification (IPC) will improve the precision of a search
- Status information is always incomplete - validate your results
- No single online database has fully extensive coverage

# PATENTSCOPE<sup>®</sup> - Work in Progress

- Integrate more patent data from more patent offices
  - (Technical co-operation projects in Latin America, Africa and Asia)
- Language tools
- Patent landscapes online



**Thank You**