COL.LEGI OFICIAL DE QUÍMICS DE CATALUNYA
Secció Tècnica PATENTS

Ciclo de conferencias-coloquio:
"Las patentes en la actividad laboral del químico"

Cómo un químico puede formarse sobre patentes

Prof. Pascual Segura

Ldo. en química por la Univ. de Valencia y Dr. por la Univ. de Barcelona (UB)

Agente de la propiedad industrial de la UB y director de su Centro de Patentes

Elected member of the first Academic Advisory Board of the European Patent Academy, EPO

President de la Secció Tècnica PATENTS del Col.legi Oficial de Químics de Catalunya

Barcelona, 26 de mayo de 2010

COL·LEGI OFICIAL DE QUÍMICS DE CATALUNYA

ASSOCIACIÓ DE QUÍMICS DE CATALUNYA

Ciclo de conferencias-coloquios

LAS PATENTES EN LA ACTIVIDAD LABORAL DEL QUÍMICO

Organizado por la

Secció Tècnica Patents
del Col·legi de Químics de Catalunya

En colaboración con el

Centre de Patents
de la Universitat de Barcelona

Martes 16 de marzo de 2010

"Las patentes como salida profesional para los químicos: agencias, empresas y oficinas de patentes", por Bernabé Zea.

Jueves 15 de abril de 2010

"La importancia de las patentes para las empresas químicas y farmacéuticas, y la necesidad del conocimiento sobre patentes en el trabajo habitual del químico", por Bernabé Zea.

Martes 4 de mayo de 2010

"El químico como perito en conflictos de patentes", por Pascual Segura.

Miércoles 26 de mayo de 2010

"Cómo un químico puede formarse sobre patentes", por Pascual Segura.

COL.LEGI DE QUÍMICS DE CATALUNYA
Secció Tècnica PATENTS

Curs PATENTS QUÍMIQUES AL COL.LEGI

Sesión 6. Barcelona, 5 y 6 de marzo de 2008

Qué se puede patentar en biotecnología y biomedicina

Lídia Casas
Bioquímica colegiada
Técnico de patentes y tutora del Centre de Patents de la Universitat de Barcelona

La documentación de todo el curso está disponible para descarga en www.quimics.cat (Seccions Tècniques / S.T. Patents)

Qué se puede patentar en química y farmacia

Montserrat Jané
Química colegiada
Técnico de patentes y tutora del Centre de Patents de la UB
Qualified European Patent Attorney
Socia de la agencia de patentes y marcas ZBM Patents

OEPM

MINISTERIO DE INDUSTRIA, TURISMO Y COMERCIO

Oficina Española de Patentes y Marcas

www.oepm.es

Pag. Inicio

AVISOS Y NOTICIAS

La Directora General de la Oficina Española de Patentes y Marcas (OEPM) y el Rector de la Universidad de Barcelona han formalizado la voluntad de cooperación entre ambas entidades mediante la firma de un Convenio de Colaboración para la organización conjunta de actividades de información, divulgación y formación sobre propiedad industrial.

Abril 2006

Ps Castellana 75. Madrid


Oficina Española de Patentes y Marcas - Inicio - Windows Internet Explorer
http://www.oepm.es/cs/Satellite?c=Page&cid=1144260495042&classIdioma=_es_es
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Topografías de productos semiconductores
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Agenda OEPM
Noticias
Premios al inventor europeo del año 2010
Marzo 2010 - Febrero 2011: "Curso práctico para preparar el European Qualifyin...
Abril 2010: "Course on Japanese Patent System: Law, Case-law and Practice on J...
Bases de datos
Localizador de marcas
Situación de expedientes
Invenciones y Diseños en español: INVENES
Invenciones en otros idiomas: esp@cenet
Invenciones Latinoamericanas: Latipat
Clasificación Internacional de Patentes
Clasificación Internacional de Productos y Servicios (Marcas)
Formularios
Tasas 2010
Otras Informaciones
Estadísticas
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Empleo
Perfil del Contratante

Agenda www.oepm.es

A continuación le presentamos las últimas noticias referentes a nuestra entidad. Si lo desea, puede buscar en el histórico de noticias que tiene habilitado en la parte inferior de ésta página.

Resultado de la búsqueda - Se mostrarán las 60 últimas noticias.

- 25-01-2010 / 22 de marzo 2010 - "Jornada de estudio y actualización en materia de patentes (Lunes de Patentes)"
- 25-01-2010 / Abril 2010: "Course on Japanese Patent System: Law, Case-law and Practice on JP Patents"
- 25-01-2010 / Marzo 2010 - Febrero 2011: "Curso práctico para preparar el European Qualifying Examination (EQE)"
- 12-01-2010 / Marzo y Junio 2010 (Barcelona), y Noviembre 2010 (Madrid): "Curso sobre patentes y modelos de utilidad: Fundamentos, Documentación, Transferencia y Redacción".
- 31-07-2008 / Septiembre 2008 - Junio 2010 - II Curso en Derecho Europeo de Patentes
- 26-04-2006 / Pago de tasas de solicitudes de Signos distintivos por internet.

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UB

CEIPI

(26 enero 2010)

Módulo ampliado de Fundamentos
El sistema de patentes: políticas de protección, patentabilidad e infracción

Módulo de Documentación
Bases de datos y servicios de información tecnológica de la OEPM, la OEP y otras oficinas

Parc Científic de Barcelona

Centre de Patents de la Universitat de Barcelona

Curso sobre patentes y modelos de utilidad

Fundamentos
Documentación
Transferencia
Redacción

MINISTERIO DE INDUSTRIA, TURISMO Y COMERCIO

Oficina Española de Patentes y Marcas

Módulo de Transferencia
Transferencia de patentes y de know-how: redacción de contratos de cesión y de licencia

XXIII Edición, Barcelona, marzo y junio de 2010
XXIV Edición, Madrid, noviembre de 2010

Módulo ampliado de Redacción
La práctica de la redacción de memorias y reivindicaciones

Módulo ampliado de Fundamentos

El sistema de patentes: políticas de protección, patentabilidad e infracción

Fechas

Barcelona: 1-4 de marzo o 28 de junio a 1 de julio
Madrid: 15-18 de noviembre

A quién va dirigido

A quien precise una introducción detallada a las patentes porque va a trabajar en el tema o prevea asistir a cualquiera de los otros módulos

Profesor

Bernabé Zea
Licenciado en química. Técnico en patentes y documentalista del Centro de Patentes de la UB. Agente de la Propiedad Industrial colegiado. Socio de ZBM Patents. Miembro de la Asociación Catalana de Peritos Judiciales.

Contenido

• **Introducción a la propiedad intelectual-industrial (PI).** Instituciones involucradas en la consecución y defensa de los derechos de PI. Objetivos del sistema de patentes: promoción de la innovación tecnológica. Modalidades de protección: derechos de autor, marcas, indicaciones geográficas, diseños y patentes. Competencia desleal. Secreto industrial. Para qué sirven las patentes y para qué no.

• **Principales conceptos relativos a las patentes.** Qué se puede patentar. Ejemplos sobre invenciones patentables y otro tipo de creaciones. Derechos conferidos por las patentes. El derecho negativo de impedir a los terceros la explotación de la invención patentada. Cómo las patentes por sí mismas no dan derecho a la explotación de las invenciones. Determinación de la titularidad y la inventoría: riesgos de su asignación incorrecta en una patente. Derechos del inventor y del titular.

Contenido (cont.)

• **Requisitos de patentabilidad.** Carácter técnico. Excepciones a la patentabilidad. Aplicabilidad industrial. Definición del estado de la técnica. Quién es el experto en la materia a efectos de patentabilidad. Novedad. Actividad inventiva. Determinación de la actividad inventiva mediante la aproximación problema-solución llevada a cabo por la EPO (*European Patent Office*). Indicios secundarios de actividad inventiva. Particularidades de los modelos de utilidad. Estado de la técnica aplicable a los modelos de utilidad. El concepto de novedad nacional de acuerdo con las decisiones del Tribunal Supremo.

• **Protección de las invenciones.** Política de empresa en relación con la propiedad industrial. Decisión de patentar frente al mantenimiento del secreto industrial. Aspectos básicos en la redacción de patentes. Identificación de las invenciones a partir de la información suministrada por el inventor. Cómo pasar de un producto a una invención. Tipos de reivindicaciones disponibles: entidad (producto) y actividad (usos, métodos y procedimientos) Qué, cómo, cuándo y dónde patentar.

• **Extensión de la protección a distintos países.** Derecho de prioridad como inicio de la protección. Familias de patentes: patentes equivalentes en diversos países. Procedimientos de tramitación de la protección en el extranjero: nacional en las diferentes oficinas, patente europea y solicitud internacional (PCT). Validación de patentes europeas: cambios debidos al Acuerdo de Londres. Costes asociados a la protección por patente: redacción de la patente, contestación a acciones oficiales, traducción, tasas de mantenimiento. Honorarios de trámite y tasas oficiales.

• **Política de protección.** Idioma de la solicitud prioritaria y oficina para la primera presentación. Aspectos sobre redacción: adaptación a las necesidades específicas de cada titular. Necesidad de primera solicitud en España. US *provisionals* como medio de conseguir una primera protección en Estados Unidos. Estrategia según la naturaleza del solicitante: universidades, centros públicos de investigación, pequeñas empresas dedicadas a investigación, grandes empresas con centros de investigación y empresas de genéricos. Preparación para superar una *IP due diligence* (auditoría que se llevará a cabo por terceros en el momento en que estén interesados en la compra o participación en los activos de propiedad industrial del titular).

Módulo ampliado de Fundamentos

El sistema de patentes: políticas de protección, patentabilidad e infracción

Contenido (cont.)

• **Interpretación de un documento de patente.** Identificación de las distintas partes del documento. Primera página como fuente de datos bibliográficos e interpretación de la situación registral del documento. Códigos INID asignados por todas las oficinas de patentes. Códigos de publicación. Duración de las patentes, incluyendo los cambios en España y Estados Unidos.

• **Infracción de patentes.** Derechos concedidos y actos prohibidos. Alcance de la protección de las reivindicaciones (independientes y dependientes). Regla de la simultaneidad de todos los elementos. Análisis elemento-por-elemento. Doctrina de los equivalentes. Infracción directa (literal o por equivalencia) e infracción indirecta (por contribución). Acciones judiciales. Inversión de la carga de la prueba. Diligencias de comprobación de hechos. Medidas cautelares. Consecuencias de la infracción.

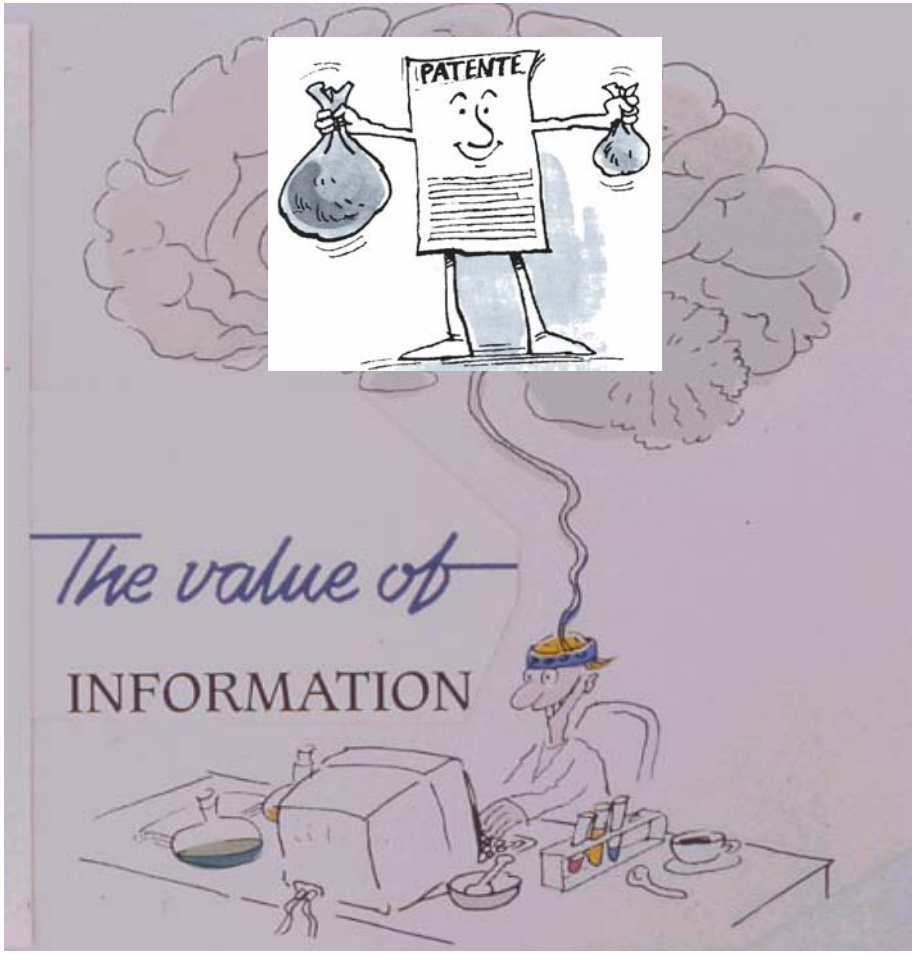
• **Peculiaridades del sistema estadounidense.** El inventor como solicitante. *First to invent vs. first to file.* Procedimientos de interferencia para determinar la titularidad. Novedad mixta a diferencia de la novedad absoluta y mundial del sistema europeo. La existencia en la práctica de un "año de gracia". *Best mode.* Publicación de algunas solicitudes de patentes frente a la única publicación de la patente concedida. Cuadernos de laboratorio como prueba para determinación de la fecha de invención.

ÍNDICE del Módulo ampliado de Fundamentos

El sistema de patentes: políticas de protección, patentabilidad e infracción

Aunque un científico o ingeniero no tenga nada que patentar, o no piense en el beneficio económico, en su vida profesional no puede ignorar las patentes porque:

- Son la mayor fuente de información técnica (más de un millón de solicitudes al año)



- En la mayoría de los casos son la primera publicación donde se publica esa información
- El 70-85% de toda esta información técnica no se publica por ningún otro medio.

Módulo de Documentación

Bases de datos y servicios de información tecnológica de la OEPM, la OEP y otras oficinas

Fechas

Barcelona: 5 de marzo
Madrid: 19 de noviembre

A quién va dirigido

A cualquiera que tenga algún conocimiento sobre patentes, o que haya asistido al módulo de Fundamentos

Profesor

Carmen Toledo
Doctora en farmacia. Jefe del Área de Documentación y Búsquedas del Departamento de Patentes e Información Tecnológica, Oficina Española de Patentes y Marcas.

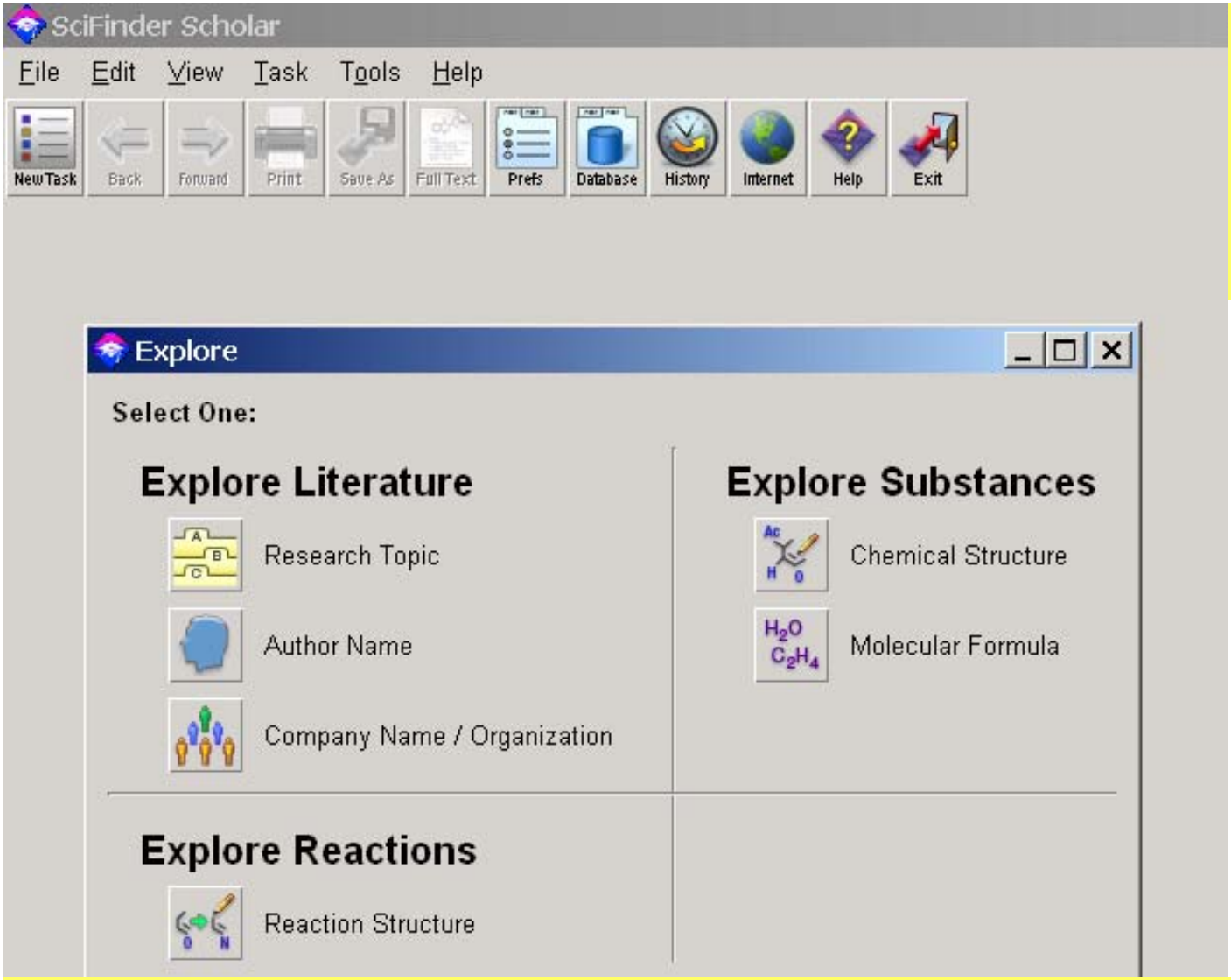
Contenido

• **Información en Internet.** Información administrativa: trámites ante la OEPM, solicitud electrónica, ayudas y subvenciones, publicaciones electrónicas (BOPI y Boletines de Vigilancia Tecnológica). Bases de datos oficiales de patentes, de ámbito internacional : *Esp@cenet*, *Epoline* (OEP) y *PatentScope* (OMPI). Bases de datos de patentes de oficinas nacionales: *INVENES* (oficina española), *PatFT* (oficina norteamericana), *PAJ* (oficina japonesa), *KIPRIS* (oficina coreana), bases de datos de las oficinas china, india, etc. Bases de datos no oficiales de patentes: *Google Patents*, *Boliven*, *Patent Lens*, *IP Newsflash*, *PatentMatic*, *FreePatentsOnline*, etc. Bases de datos de contenido jurídico.

• **Servicios de información tecnológica.** Informes tecnológicos de patentes, búsquedas retrospectivas e informes de vigilancia tecnológica a medida.

Lo primero que hay que hacer cuando se cree tener una invención patentable: buscar antecedentes en bases de datos de artículos (Medline, Excerpta Medica...) y de patentes (SciFinder...); evitar la divulgación prematura (congresos, artículos, tesis, tesinas...) que impida su patentabilidad; hablar con un experto.

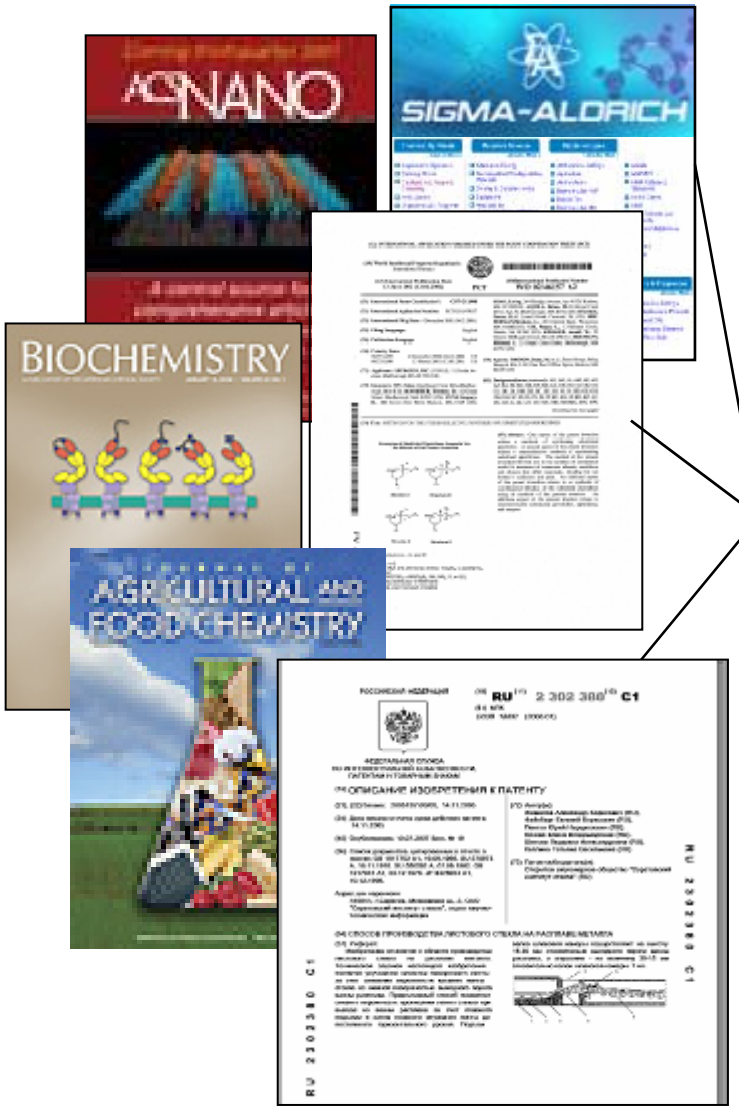
ISI Web of Knowledge: http://go5.isiknowledge.com/



La mayoría de universidades y muchas empresas son suscriptoras de SciFinder

SciFinder (en esta versión o en la versión web) de CAS cubre las patentes químico-farmacéuticas-biológicas de 50 oficinas/países (Medline, Excerpta Medica, Science Citation Index... no cubren patentes)

CAS resume e indiza los contenidos de muchas fuentes, produciendo bases de datos de gran calidad



CAS Scientists

- CAS REGISTRY℠
- CA Family*
- CASREACT®
- CHEMCATS®
- CHEMLIST®
- CIN®
- MARPAT®
- Toxcenter℠

*The CA Family is comprised of CA, CAplus and CAOLD

SciFinder

- Es el sistema de información científico-técnica y de patentes, **integrado**, **exhaustivo** y **fácil de usar**, que CAS ofrece para su **uso directo** por el usuario final (no por el profesional, que sigue usando las bbdd de STN Int.).

- Además de la **indización habitual** (*index terms, Registry Numbers, CAS roles...),* incorpora **"inteligencia de búsqueda"** adicional (detrás del telón) que **resuelve, de forma rápida y segura, la mayoría de necesidades** de información sin salir del sistema, facilitando el acceso al documento completo.

- **Integra** las bases de datos de CAS (CAplus, REGISTRY, CASREACT,CHEMCATS, CHEMLIST) y MEDLINE, con muchas posibilidades de **consultas cruzadas, incluidas subestructuras.**

- Más de 28M de refs. desde 1907 provenientes de más de 9.000 revistas y patentes de más de 50 oficinas. Más de 16M de refs. Medline desde 1950.
- Más de 33M de substancias y unos 60M de biosecuencias (¡casi todas!)
- Más de 14M de reacciones. Más de 70M de fichas de 800 catálogos.

'ENVIAGRADOS Los efectos colaterales de la pastilla azul a los diez años de su nacimiento.

"VIAGRA ® nació para ayudar a los afectados de disfunción eréctil y se ha convertido en moda para muchos. A sus casi diez años de vida, los efectos colaterales de las pastillas sexuales son ya asunto social: uso abusivo, disgustos de pareja y malestar por hacer del acto competición y negocio." (**EL PAÍS SEMANAL 14.10.2007**)

Otro "efecto colateral" de sus diez años en el mercado será la **aparición de genéricos de sildenafilo en España en 2008, si las patentes no lo pueden retrasar** (al menos hasta 2013, como donde hay reivindicación de producto sobre el principio activo).

VIZARSIN de KERN PHARMA

Primer sildenafilo distinto de Viagra® lanzado en España

A Viagra le sale el primer «clon»

6 Diciembre 09 - Sergio Alonso Compártelo:

«Corregir la disfunción eréctil está, por fin, más al alcance de todos» es el lema con el que se anunciará el fármaco.

MADRID- Viagra, el mítico producto contra la disfunción eréctil que revolucionó las terapias sexuales y que inauguró en todo el mundo la era de los medicamentos «galácticos», va a tener pronto un clon. No se trata de ninguno de los otros dos fármacos innovadores destinados a combatir la impotencia que existen ya en el mercado, y que presentan un diferente mecanismo de acción para lograr la misma meta: Cialis y Levitra. Se trata del primer medicamento genérico del producto y, según ha podido saber LA RAZÓN, va a comercializarse de manera inminente, en cuestión de días, en las oficinas de farmacia españolas.

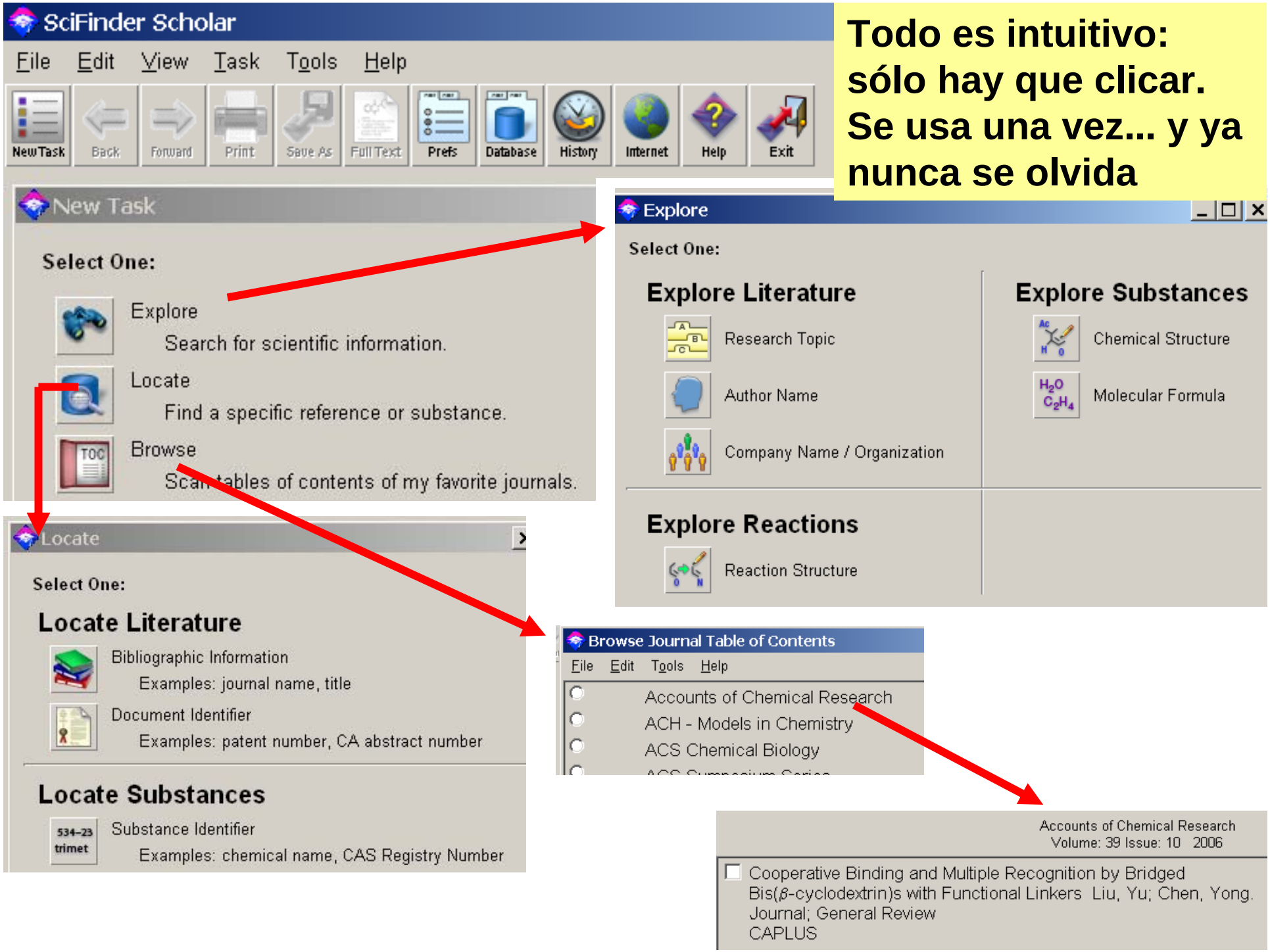
Además, su precio será mucho más bajo que el fármaco original, al expirar en nuestro país los derechos de patente del mismo. Este genérico del principio activo que compone Viagra, el sildenafilo, se denominará Vizarsin, y ha comenzado ya a anunciarse con el lema de «corregir la disfunción eréctil está, por fin, más al alcance de todos». El fármaco, de ingestión oral, se comercializará por parte del laboratorio Kern Pharma en un total de

1. NOMBRE DEL MEDICAMENTO

Vizarsin 25 mg comprimidos recubiertos con película
Vizarsin 50 mg comprimidos recubiertos con película
Vizarsin 100 mg comprimidos recubiertos con película

2. COMPOSICIÓN CUALITATIVA Y CUANTI

El principio activo es sildenafilo.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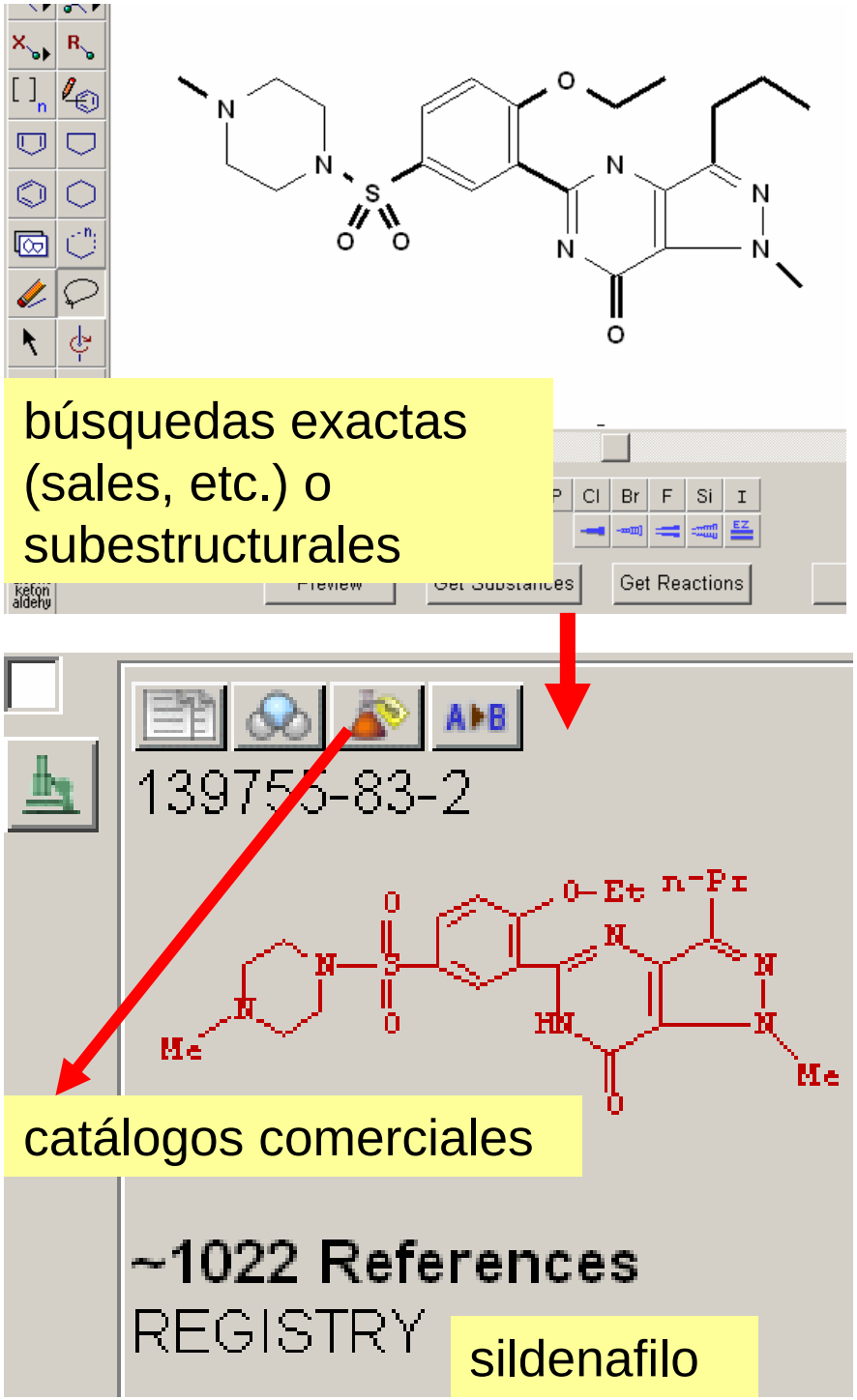
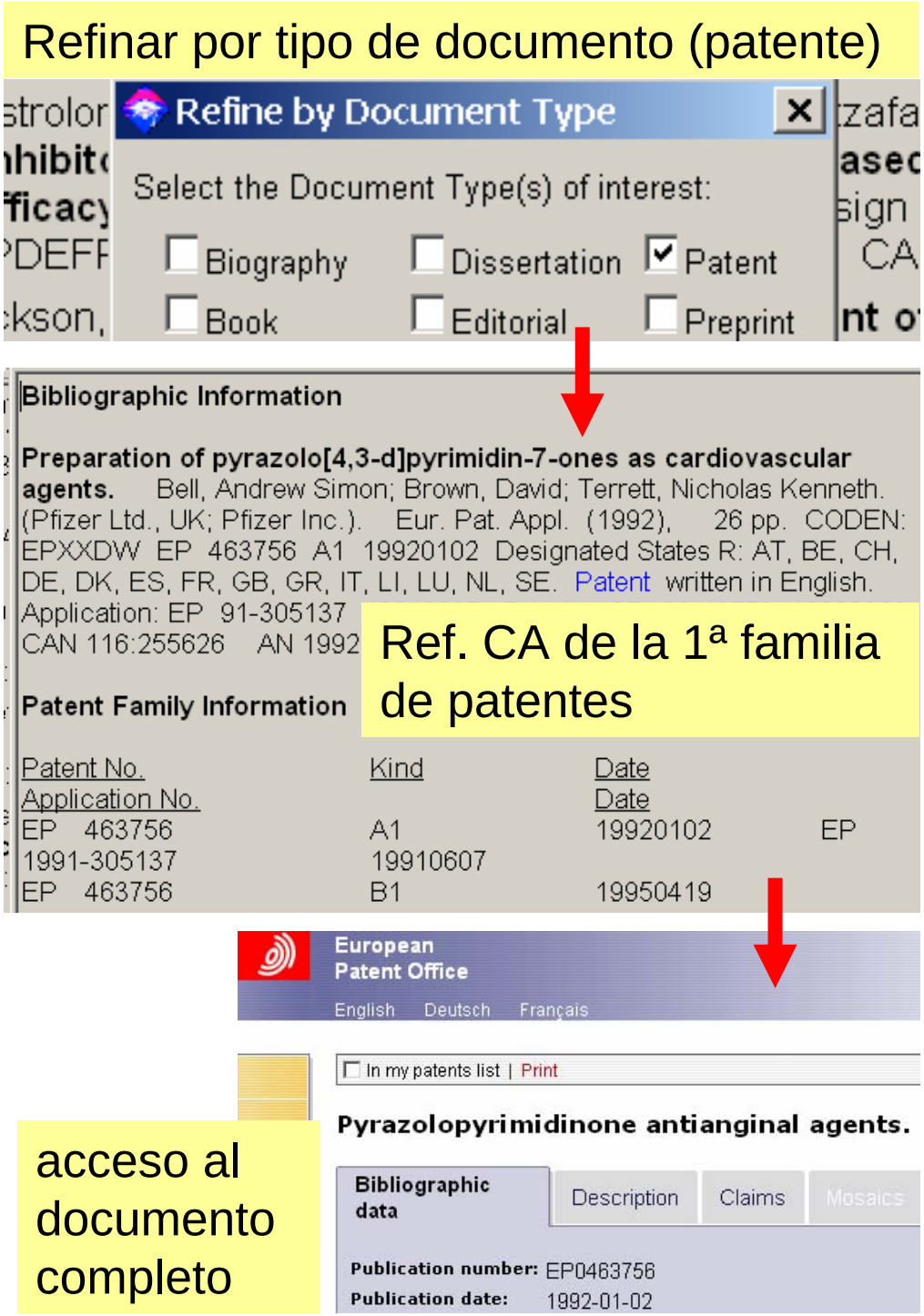
File Edit View Task Tools Help
New Task
Back
Forward
Print
Save As
Full Text
Prefs
Database
History
Internet
Help
Exit
Todo es intuitivo: sólo hay que clicar. Se usa una vez... y ya nunca se olvida
New Task
Select One:
Explore
Search for scientific information.
Locate
Find a specific reference or substance.
Browse
Scan tables of contents of my favorite journals.
Explore
Select One:
Explore Literature
Research Topic
Author Name
Company Name / Organization
Explore Substances
Chemical Structure
Molecular Formula
Explore Reactions
Reaction Structure
Locate
Select One:
Locate Literature
Bibliographic Information
Examples: journal name, title
Document Identifier
Examples: patent number, CA abstract number
Locate Substances
Substance Identifier
Examples: chemical name, CAS Registry Number
Browse Journal Table of Contents
File Edit Tools Help
Accounts of Chemical Research
ACH - Models in Chemistry
ACS Chemical Biology
Accounts of Chemical Research
Volume: 39 Issue: 10 2006
Cooperative Binding and Multiple Recognition by Bridged Bis(β-cyclodextrin)s with Functional Linkers Liu, Yu; Chen, Yong.
Journal; General Review
CAPLUS


búsquedas exactas (sales, etc.) o subestructurales
Get Reactions
catálogos comerciales
~1022 References
REGISTRY
sildenafilo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Biography
Dissertation
Patent
Book
Editorial
Preprint
Bibliographic Information
Preparation of pyrazolo[4,3-d]pyrimidin-7-ones as cardiovascular agents.
Patent Family Information
Ref. CA de la 1ª familia de patentes
European Patent Office
English Deutsch Français
In my patents list | Print
Pyrazolopyrimidinone antianginal agents.
Bibliographic data
Description
Claims
Mosaics
Publication number: EP0463756
Publication date: 1992-01-02
acceso al documento completo

ARTÍCULO CIENTÍFICO

- **TÍTULO largo y muy descriptivo**

- **AUTORES (muchos; a veces alguno "ficticio")**

- **INTRODUCCIÓN con muchas citas a artículos (revisión bibliográfica)**

- **RESULTADOS Y DISCUSIÓN: justificación teórica (los porqués); distinción entre lo real (en presente) y lo posible (en condicional); trascendencia en relación con otros estudios; perspectivas (en futuro).**

- **EXPERIMENTAL (Materiales y Métodos; Ejemplos): Lo realmente realizado (en pasado), detallado para que sea reproducible.**

PATENTE

- **TÍTULO críptico y poco descriptivo**

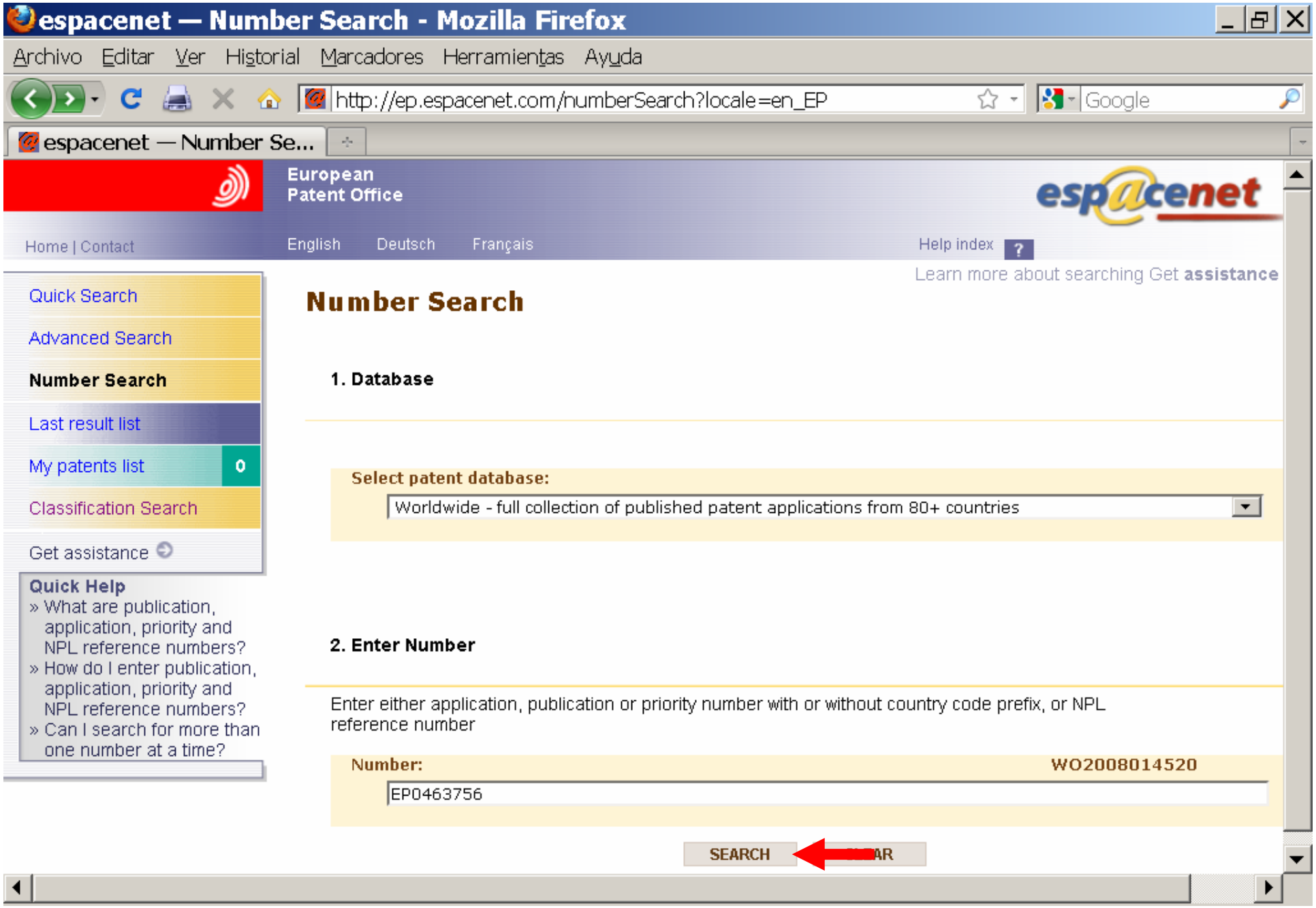
- **INVENTORES (pocos y "reales") y PROPIETARIOS (registrados)**

- **ESTADO DE LA TÉCNICA con pocas citas a patentes; problema técnico planteado.**

- **EXPLICACIÓN GENERAL: soporte de las reivindicaciones, que muchas son extrapolaciones (en presente); solución al problema; uso industrial y ventajas.**

- **EXPLICACIÓN DETALLADA: lo realmente realizado (en pasado) y/o *paper examples* (en presente). Dibujos y biosecuencias al final.**

- **REIVINDICACIONES: definiciones de entidades/actividades protegidas**


espacenet — Number Search - Mozilla Firefox
Archivo Editar Ver Historial Marcadores Herramientas Ayuda
http://ep.espacenet.com/numberSearch?locale=en_EP
Google
espacenet — Number Se...
European Patent Office
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» How do I enter publication, application, priority and NPL reference numbers?
» Can I search for more than one number at a time?
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Worldwide - full collection of published patent applications from 80+ countries
2. Enter Number
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WO2008014520
EP0463756
SEARCH


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Google
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Pyrazolopyrimidinone antianginal agents.
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Applicant(s): PFIZER LTD [GB]; PFIZER [US] +
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(22) Date of filing: **07.06.91**

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EP 463.756 B1 (1/4): de la primera familia de patentes de Pfizer sobre sildenafilo

(54) **Pyrazolopyrimidinone antianginal agents.**

(30) Priority: **20.06.90 GB 9013750**

(43) Date of publication of application:
02.01.92 Bulletin 92/01

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(84) Designated Contracting States:
BE CH DE DK ES FR GR IT LI LU NL SE AT

(54) **Pyrazolopyrimidinone antianginal agents.**

(30) Priority: **20.06.90 GB 9013750**

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PATENT ABSTRACTS OF JAPAN unexamined applications, C field, vol. 13, no. 56, February 8, 1989 THE PATENT OFFICE JAPANESE GOVERNMENT page 10 C 566

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3 756 B1

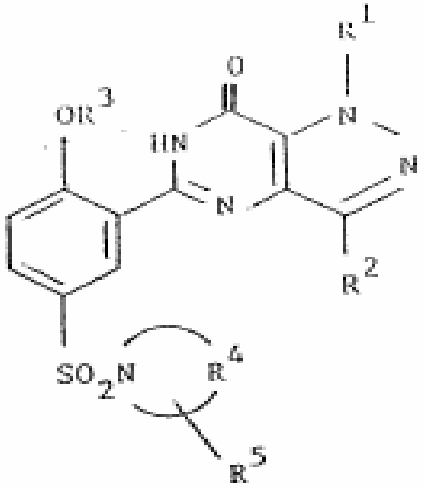
Description

This invention relates to a series of pyrazolo[4,3-d]pyrimidin-7-ones, which are potent and selective inhibitors of cyclic guanosine 3',5'-monophosphate phosphodiesterase (cGMP PDE), having utility in a variety of therapeutic areas including the treatment of various cardiovascular disorders such as angina, hypertension, heart failure and atherosclerosis.

The compounds of the invention exhibit selectivity for inhibition of cGMP PDEs rather than cyclic adenosine 3',5'-monophosphate phosphodiesterases (cAMP PDEs) and, as a consequence of this selective PDE inhibition, cGMP levels are elevated, which in turn can give rise to beneficial platelet anti-aggregatory, anti-vasospastic and vasodilatory activity, as well as potentiation of the effects of endothelium-derived relaxing factor (EDRF) and nitrovasodilators. Thus the compounds have utility in the treatment of a number of disorders, including stable, unstable and variant (Prinzmetal) angina, hypertension, congestive heart failure, atherosclerosis, conditions of reduced blood vessel patency e.g. post-percutaneous transluminal coronary angioplasty (post-PTCA), peripheral vascular disease, stroke, bronchitis, chronic asthma, allergic asthma, allergic rhinitis, glaucoma, and diseases characterised by disorders of gut motility, e.g. irritable bowel syndrome (IBS).

European patent application EP-A-0201188 discloses certain pyrazolo[4,3-d]pyrimidin-7-ones as adenosine receptor antagonists and PDE inhibitors, useful in the treatment of cardiovascular disorders such as heart failure or cardiac insufficiency. However these compounds are neither particularly potent PDE inhibitors, nor are they claimed to be selective inhibitors of cGMP PDE.

The compounds of the present invention are of the formula (I):



(I)

A particularly preferred group of compounds of the formula (I) is that wherein R^1 is methyl; R^2 is n-propyl; R^3 is ethyl, n-propyl or allyl; R^4 taken together with the nitrogen atom to which it is attached completes a 4-N-(R^6) piperazinyl group; R^5 is H; and R^6 is H, C_1-C_3 alkyl or 2-hydroxyethyl.

Especially preferred individual compounds of the invention include:

5-[2-allyloxy-5-(4-methylpiperazinylsulphonyl)phenyl]-1-methyl-3-n-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]pyrimdin-7-one;

5-[2-ethoxy-5-(piperazinylsulphonyl)phenyl]-1-methyl-3-n-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]-pyrimidin-7-one;

5-[2-ethoxy-5-(4-methylpiperazinylsulphonyl)phenyl]-1-methyl-3-n-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]-pyrimidin-7-one;

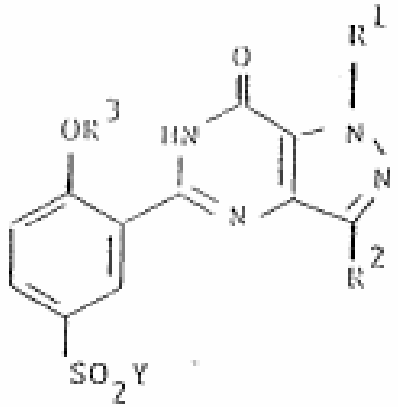
5-{2-ethoxy-5-[4-(2-propyl)piperazinylsulphonyl]phenyl}-1-methyl-3-n-propyl-1,6-dihydro-7H-pyrazolo-[4,3-d]pyrimidin-7-one;

5-{2-ethoxy-5-[4-(2-hydroxyethyl)piperazinylsulphonyl]phenyl}-1-methyl-3-n-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one;

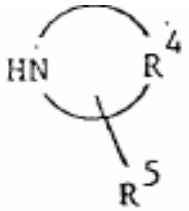
1-methyl-5-[5-(piperazinylsulphonyl)-2-n-propoxyphenyl]-3-n-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]-pyrimidin-7-one;

and 5-{5-[4-(2-hydroxyethyl)piperazinylsulphonyl]-2-n-propoxyphenyl}-1-methyl-3-n-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one.

The compounds of the general formula (I) may be prepared by the reaction of a compound of the general formula (II):



(II)

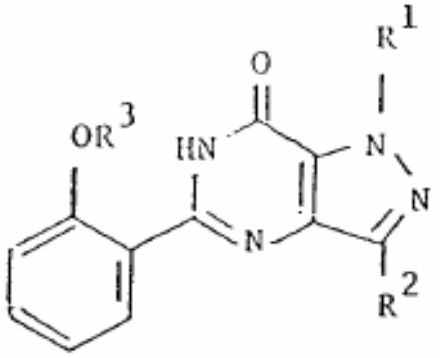


(III)

wherein R^4 and R^5 are as previously defined.

The reaction is generally carried out at room temperature, preferably in the presence of a solvent, for example an alkanol containing one to three carbon atoms, using an excess of (III) to scavenge the acid by-product (HY).

Compounds of the general formula (II) may be prepared from compounds of the general formula (IV):

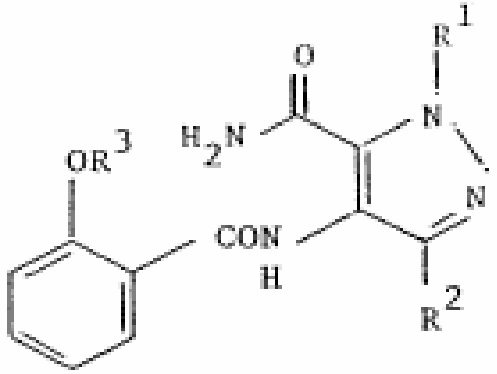


(IV)

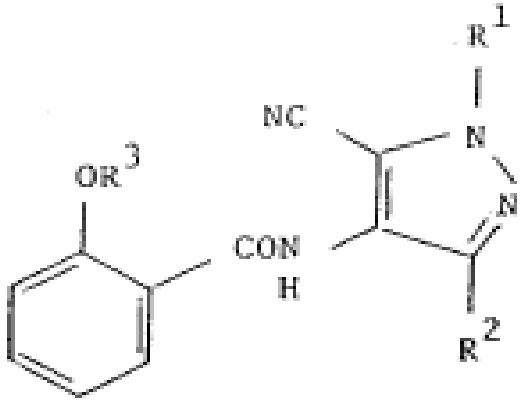
(wherein R^1, R^2 and R^3 are as previously defined) by the application of known methods for the introduction of a SO_2Y group (wherein Y is as previously defined) into an aromatic ring, for example, when Y represents a chlorine atom, by the action of chlorosulphonic acid at or near 0 °C.

When R^3 is a group susceptible to removal under the chlorosulphonylation conditions, e.g. allyl, said group can be introduced in the final stage of the synthesis. Thus the phenol of the general formula (IV), wherein R^3 is H, and R^1 and R^2 are as previously defined, which is obtainable by Pd°-mediated deprotection of the O-allyl analogue as illustrated by Example 25, is chlorosulphonylated to provide a compound of the general formula (II), wherein Y is Cl, R^3 is H, and R^1 and R^2 are as previously defined. The

Compounds of the general formula (IV) may be prepared from compounds of the general formula (V):



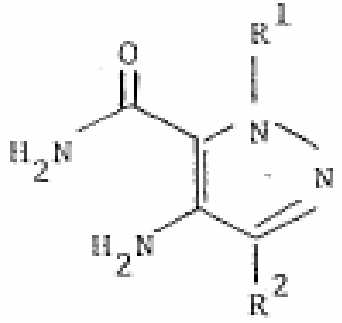
(V)



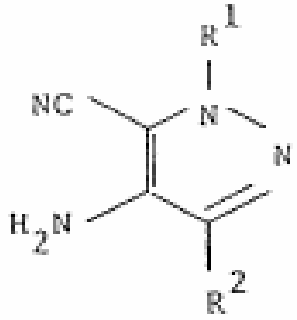
(VI)

In an alternative cyclisation procedure, compounds of the general formula (IV) may be obtained by treatment of (V) with polyphosphoric acid at or near 140 °C for 6-18 hours.

Compounds of the general formulae (V) and (VI) may be prepared from compounds of the general formulae (VII) and (VIII) respectively:



(VII)



(VIII)

Phosphodiesterase activity

Compound affinities for cGMP and cAMP PDEs are assessed by determination of their IC_{50} values (the concentration of inhibitor required for 50% inhibition of enzyme activity). The PDE enzymes are isolated from rabbit platelets and rat kidney, essentially by the method of W.J. Thompson et al. (Biochem., 1971 10, 311). The calcium/calmodulin (Ca/CAM)-independent cGMP PDE and the cGMP-inhibited cAMP PDE enzymes are obtained from rabbit platelets whilst, of the four major PDE enzymes of the rat kidney, the Ca/CAM-dependent cGMP PDE (fraction I) is isolated. Assays are performed using a modification of the "batch" method of W.J. Thompson and M.M. Appleman (Biochem., 1979, 18, 5228). Results from these tests show that the compounds of the present invention are potent and selective inhibitors of both cGMP PDEs.

Platelet anti-aggregatory activity

This is assessed by the determination of a compound's ability to inhibit platelet aggregation in vitro induced by platelet activating factor (PAF), and to potentiate the platelet antiaggregatory action in vitro of activators of guanylate cyclase such as nitroprusside and EDRF. Washed platelets are prepared essentially by the method of J.F. Mustard et al. (Methods in Enzymol., 1989, 169, 3) and aggregation is determined using standard turbidimetric techniques as described by G.V.R. Born, J. Physiol. (Lond), 1962, 162, 67P.

Antihypertensive activity

This is assessed following intravenous or oral administration of a compound to spontaneously hypertensive rats. Blood pressure is recorded via a cannula implanted in the carotid artery of either conscious or anaesthetised animals.

Thus the invention provides a pharmaceutical composition comprising a compound of the formula (I), or a pharmaceutically acceptable salt thereof, together with a pharmaceutically acceptable diluent or carrier.

The invention also provides a compound of the formula (I), or a pharmaceutically acceptable salt thereof, for use in medicine, particularly for the treatment of angina, hypertension, heart failure or atherosclerosis.

The invention further provides the use of a compound of the formula (I), or a pharmaceutically acceptable salt thereof, for the manufacture of a medicament for the treatment of stable, unstable and variant (Prinzmetal) angina, hypertension, congestive heart failure, atherosclerosis, stroke, peripheral vascular disease, conditions of reduced blood vessel patency e.g. post-PTCA, chronic asthma, bronchitis, allergic asthma, allergic rhinitis, glaucoma, or diseases characterised by disorders of gut motility, e.g. IBS.

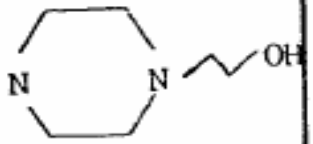
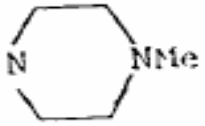
The invention also includes any novel intermediates disclosed herein such as those of formulae (II) and (IV).

The preparation of the compounds of the invention will now be more particularly illustrated by reference to the following experimental Examples. The purity of the compounds was routinely monitored by thin layer chromatography (TLC) using Merck Kieselgel 60 F_{254} plates. ^{1}H-Nuclear magnetic resonance spectra were recorded using a Nicolet QE-300 spetrometer and were in all cases consistent with the proposed structures.

EXAMPLE 1

1-Methyl-3-n-propylpyrazole-5-carboxylic acid ethyl ester

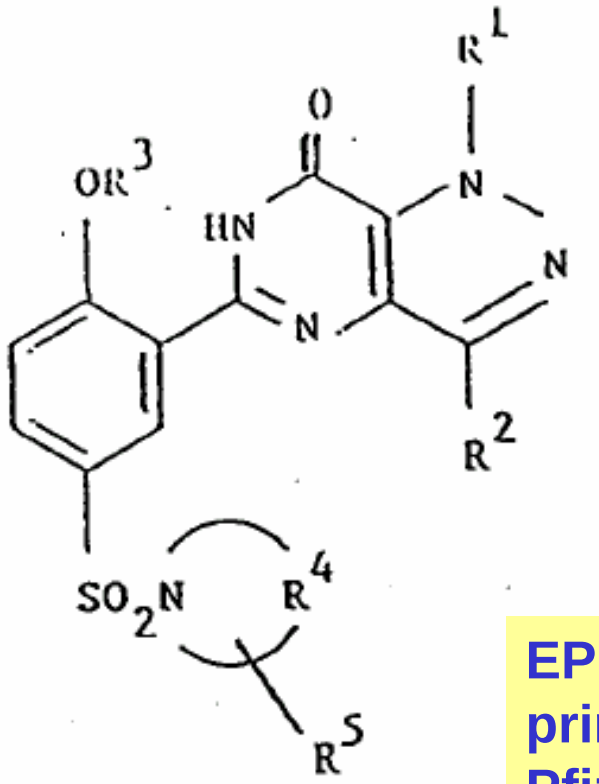
A mixture of 3-n-propylpyrazole-5-carboxylic acid ethyl ester (24.1 g, 0.132 mol) (prepared by the method of Chem. Pharm. Bull., 1984, 32, 1568) and dimethyl sulphate (16.8 g, 0.133 mol) were heated to 90 °C for 2.5 hours. The mixture was dissolved in dichloromethane and the solution washed with sodium carbonate solution. The organic phase was separated, dried ($MgSO_4$) and evaporated under vacuum to give a solid. Chromatography on silica gel (300 g), eluting with dichloromethane gave the product as a colourless oil (20.4 g, 79%). Rf 0.8 (silica; dichloromethane, methanol, acetic acid; 80:20:1).

Example		% yield	m.p. (°C)	Analysis % (Theoretical in brackets) C	H	N
10		51	161-162	54.82 (54.77	6.13 6.13	17.95 18.25)
11		79	194-196	54.63 (54.75	6.47 6.39	16.50 16.65)
12		88	187-189	55.61 (55.68	6.23 6.37	17.74 17.71)

Claims

Claims for the following Contracting States : AT, BE, CH, DE, DK, FR, GB, IT, LI, LU, NL, SE

1. A compound of the formula:



(I)

and pharmaceutically acceptable salts thereof.

EP 463.756 B1 (2/4): de la primera familia de patentes de Pfizer sobre sildenafilo

4. A compound as claimed in Claim 3 wherein said compound is selected from:

5-{2-ethoxy-5-[4-(2-propyl)piperazinylsulphonyl]phenyl}-1-methyl-3-n-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one; sildenafil

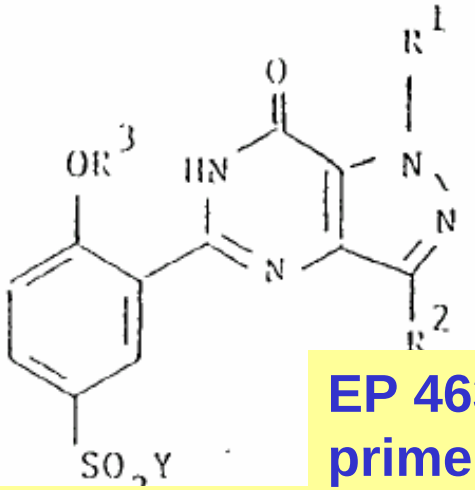
6. A compound of the formula (I) or a pharmaceutically acceptable salt thereof, as claimed in any one of Claims 1 to 4, for use in medicine, particularly for the treatment of angina, hypertension, heart failure or atherosclerosis.

reivindicación al estilo primer uso terapéutico

7. The use of a compound of the formula (I) or a pharmaceutically acceptable salt thereof, as claimed in any one of Claims 1 to 4, for the manufacture of a medicament, particularly for the treatment of angina, hypertension, heart failure, atherosclerosis, stroke, peripheral vascular disease, conditions of reduced blood vessel patency, chronic asthma, bronchitis, allergic asthma, allergic rhinitis, glaucoma or diseases characterised by disorders of gut motility.

reivindicación de segundo uso terapéutico a la suiza

8. A compound of the formula:



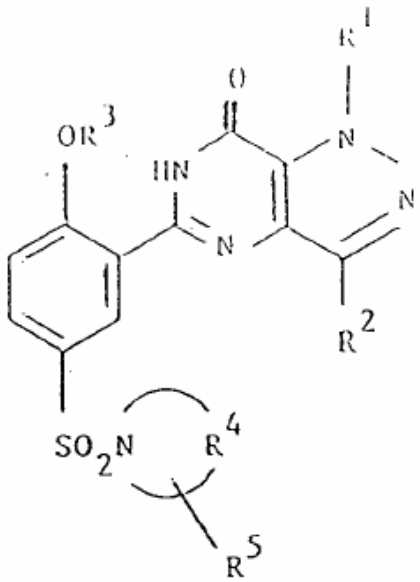
producto químico intermedio (no farmacéutico)

EP 463.756 B1 (3/4): de la primera familia de patentes de Pfizer sobre sildenafilo

Estos tipos de reivindicaciones no eran patentables en España hasta el 7.10.1992. Pero está sub-judice una interpretación contraria, basada en el ADPIC

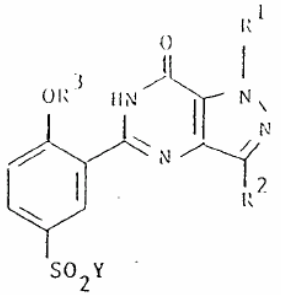
Claims for the following Contracting State : ES

1. A process for preparing a compound of the formula:

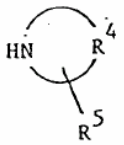


¡Hasta el 7.10.1992 ESPAÑA Y GRECIA FUERON DIFERENTES!

and pharmaceutically acceptable salts thereof, which comprises reacting a compound of the formula:

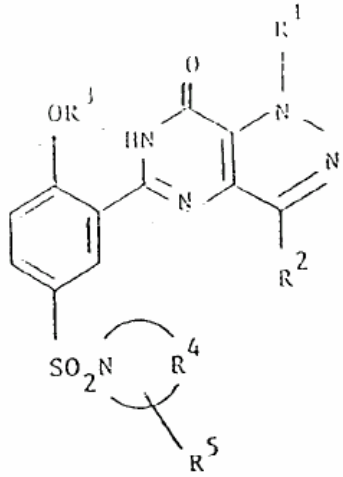


wherein R^1, R^2 and R^3 are as previouly defined and Y is chloro, bromo or fluoro, with a compound of the formula:



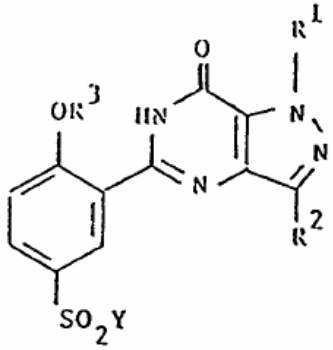
Claims for the following Contracting State : GR

1. A process for preparing a compound of the formula:



7. A compound of the formula:

producto químico intermedio (no farmacéutico)



EP 463.756 B1 (4/4): de la primera familia de patentes de Pfizer sobre sildenafilo

(19) OFICINA ESPAÑOLA DE PATENTES Y MARCAS

ESPAÑA

(11) N.° de publicación: **ES 2 071 919**

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A61K 31/505

A61K 31/635

Validación en España de la EP 463.756 B1: primera familia de patentes de Pfizer sobre sildenafilo

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(86) Fecha de presentación : **07.06.91**

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(87) Fecha de publicación de la solicitud: **02.01.92**

(54) Título: **Agentes antianginosos de pirazolopirimidina.**

(30) Prioridad: **20.06.90 GB 9013750**

(73) Titular/es: **Pfizer Inc.**
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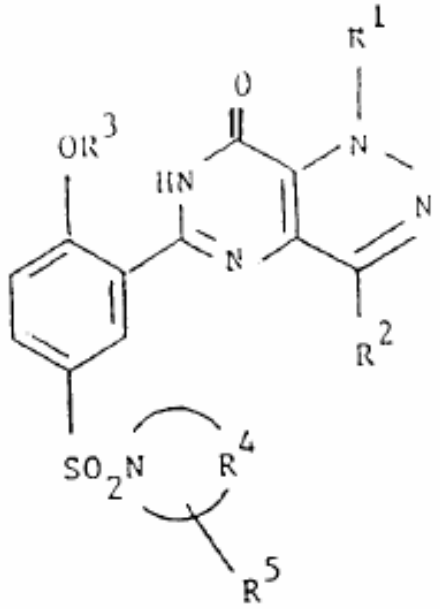
New York, N.Y. 10017, US

REIVINDICACIONES

1. Un procedimiento para la preparación de un compuesto de fórmula



en la que

2. Un procedimiento de acuerdo con la Reivindicación 1 en el que R^1, R^2, R^4 y R^5 son de acuerdo con la Reivindicación 1, y R^3 es H, seguido de O-alquilación del fenol y conversión opcional del producto requerido en una sal farmacéuticamente aceptable.

3. Un procedimiento de acuerdo con la Reivindicación 1 o Reivindicación 2 en el que R^1, R^4 y R^5 son de acuerdo con la Reivindicación 1, y R^3 es de acuerdo con la Reivindicación 1 o Reivindicación 2, en el que R^2 contiene un sustituyente hidroxi protegido por acetilo o benzoílo, siendo separado dicho grupo protector posteriormente por hidrólisis con bases antes de la conversión opcional del producto requerido en una sal farmacéuticamente aceptable.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Solicitud de registro de Diseños Industriales
Presentación de recursos
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Marzo 2010 - Febrero 2011: "Curso práctico para preparar el European Qualifyin...
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(22) 12-03-1999

Fecha de concesión: 12-02-2002

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New York, New York 10017 U

(68) 2071919

(54) **Agentes antianginosos de pirazolopirimidinona.**

(92) EU/1/98/077/001-012 del 14-09-1998

(93) UE EU/1/98/077/001-012 del 14-09-1998

(94) 14-09-2013

(95) Sildenafilo (viagra).

Certificado Complementario de Protección (CCP) de sildenafilo en España, que extende la protección relativa al mismo de la patente ES 2.071.919 (validación en España de EP 463.756 B1) hasta el 14.09.2013

(BOPI 1.03.2002)

(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 0 702 555 B1

(12) **EUROPEAN PATENT SPECIFICATION**

(45) Date of publication and mention of the grant of the patent:
11.03.1998 Bulletin 1998/11

(21) Application number: **94916236.6**

(22) Date of filing: **13.05.1994**

(51) Int. Cl.[6]: **A61K 31/505**

EP 702.555 B1 (1/2): de la segunda familia de patentes de Pfizer sobre sildenafilo

(54) **PYRAZOLOPYRIMIDINONES FOR THE TREATMENT OF IMPOTENCE**
PYRAZOLPYRIMIDINONE FÜR DIE BEHANDLUNG VON IMPOTENZ
PYRAZOLOPYRIMIDINONES UTILISEES POUR TRAITER L'IMPUISSANCE

(84) Designated Contracting States:
AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

(30) Priority: **09.06.1993 GB 9311920**

(43) Date of publication of application:
27.03.1996 Bulletin 1996/13

(73) Proprietors:
- **Pfizer Limited**
- **TERRETT, Nicholas Kenneth**
  Sandwich Kent CT13 9NJ (GB)

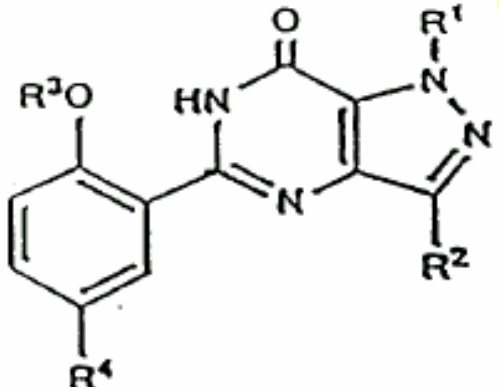
(74) Representative:
Moore, James William, Dr. et al
Pfizer Limited
Ramsgate Road
Sandwich Kent CT13 9NJ (GB)

(56) References cited:
EP-A- 0 463 756 **EP-A- 0 526 004**

EP 702.555 B1: de la segunda familia de patentes de Pfizer sobre sildenafilo

Claims

1. The use of a compound of formula (I):



(I)

or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition containing either entity, for the manufacture of a medicament for the curative or prophylactic treatment of erectile dysfunction in a male animal, including man.

6. The use according to claim 5 wherein the compound of formula (I) is 5-[2-ethoxy-5-(4-methyl-1-piperazinylsulphonyl)phenyl]-1-methyl-3-n-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one.

8. The use of a compound of formula (I) as defined in any one of claims 1 to 7, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition containing either entity, for the manufacture of a medicament for the curative or prophylactic treatment of female sexual dysfunction.

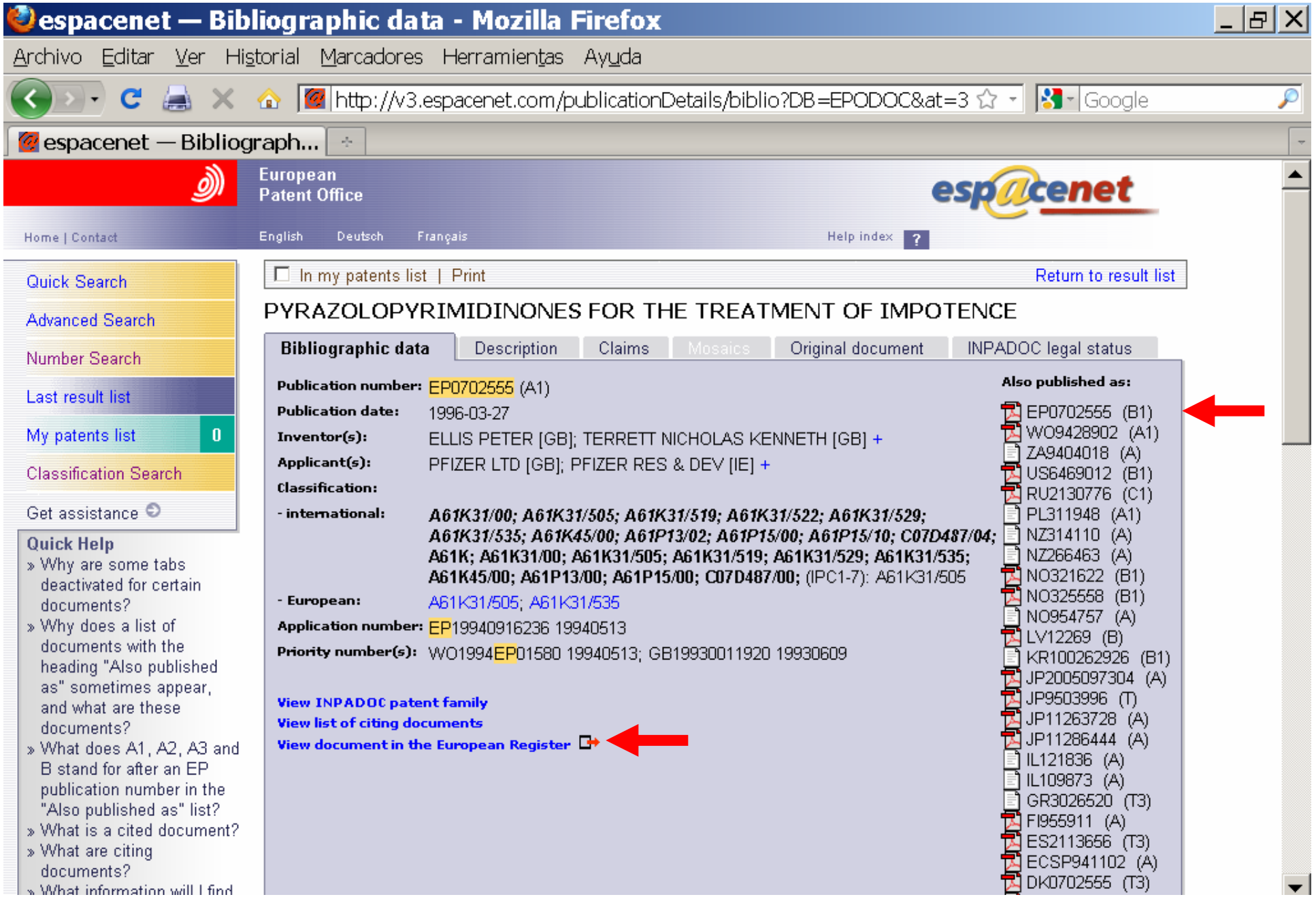
profético (sin pruebas)

9. The use according to any one of claims 1 to 8 wherein the medicament is adapted for oral treatment.

10. The use of a cGMP PDE inhibitor, or a pharmaceutically acceptable salt thereof, or a pharmaceutical composition containing either entity, for the manufacture of a medicament for the curative or prophylactic oral treatment of erectile dysfunction in man.

¡intolerable! (equivale a proteger el mecanismo de acción)

11. The use according to claim 10 wherein the inhibitor is a cGMP PDE_V inhibitor.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INPADOC legal status
Publication number: EP0702555 (A1)
Publication date: 1996-03-27
Inventor(s): ELLIS PETER [GB]; TERRETT NICHOLAS KENNETH [GB] +
Applicant(s): PFIZER LTD [GB]; PFIZER RES & DEV [IE] +
Classification:
- international: A61K31/00; A61K31/505; A61K31/519; A61K31/522; A61K31/529; A61K31/535; A61K45/00; A61P13/02; A61P15/00; A61P15/10; C07D487/04; A61K; A61K31/00; A61K31/505; A61K31/519; A61K31/529; A61K31/535; A61K45/00; A61P13/00; A61P15/00; C07D487/00; (IPC1-7): A61K31/505
- European: A61K31/505; A61K31/535
Application number: EP19940916236 19940513
Priority number(s): WO1994EP01580 19940513; GB19930011920 19930609
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RU2130776 (C1)
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NZ266463 (A)
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NO325558 (B1)
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LV12269 (B)
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JP11286444 (A)
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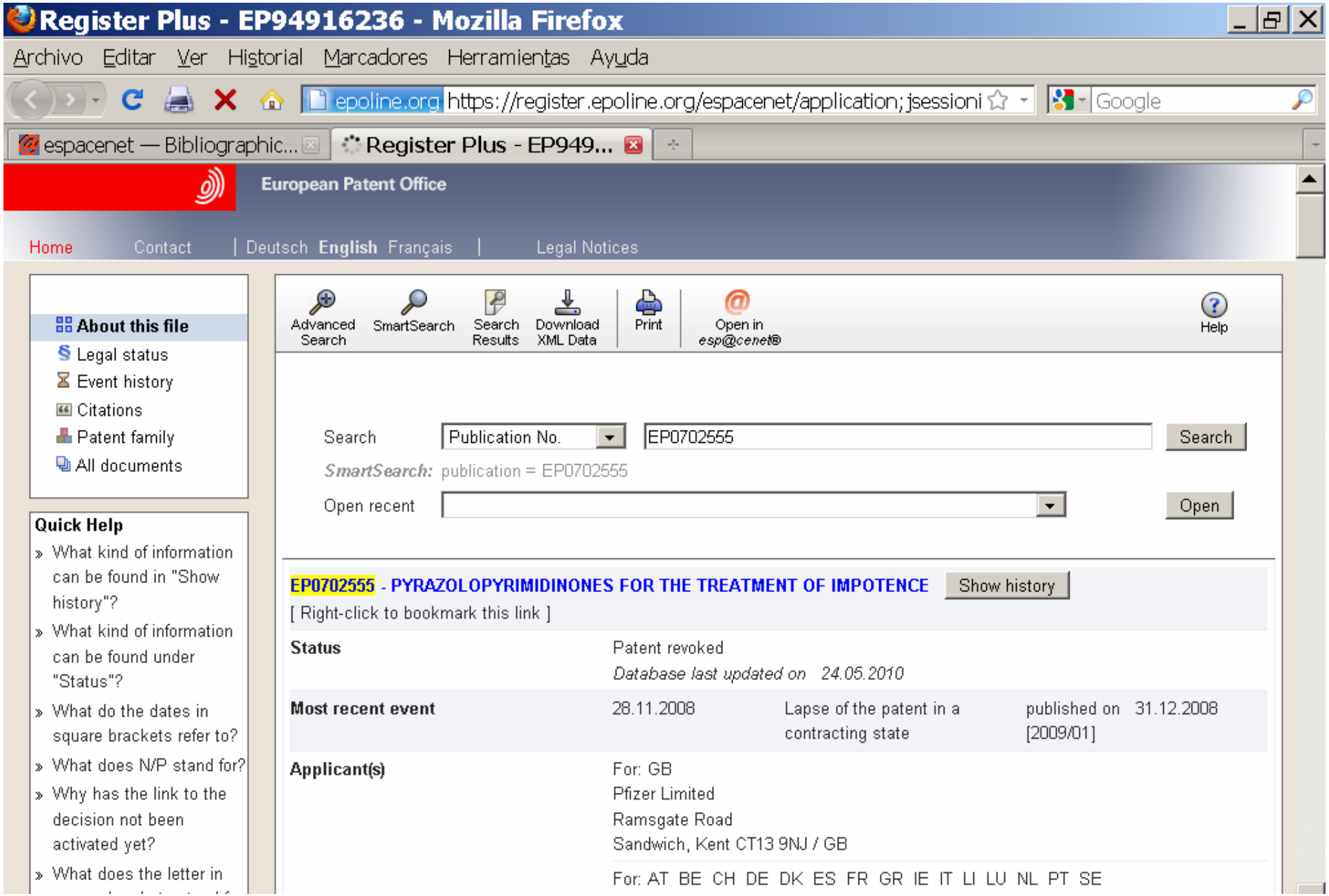
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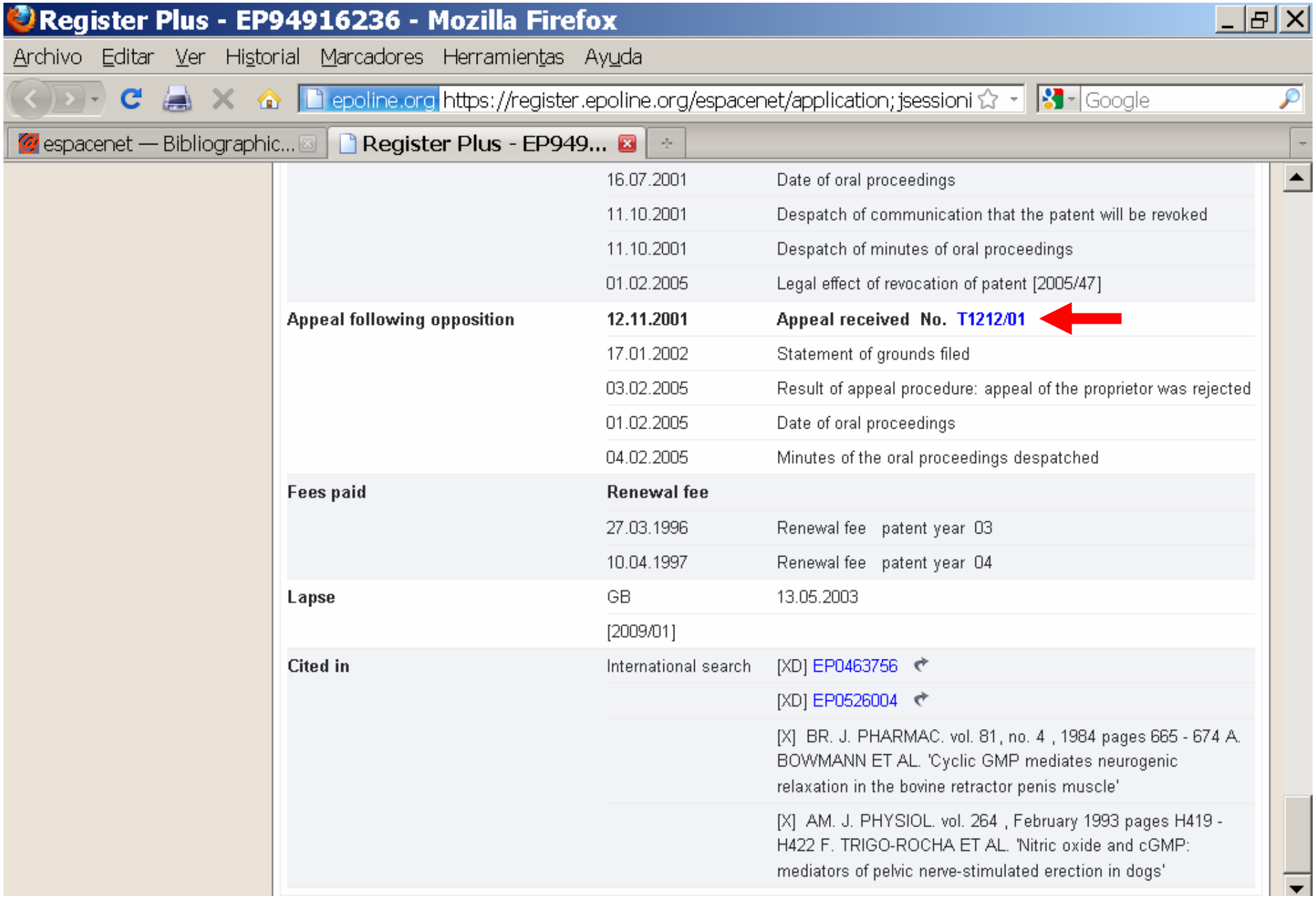
Pfizer Limited
Ramsgate Road
Sandwich, Kent CT13 9NJ / GB
For: AT BE CH DE DK ES FR GR IE IT LI LU NL PT SE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16.07.2001 Date of oral proceedings
11.10.2001 Despatch of communication that the patent will be revoked
11.10.2001 Despatch of minutes of oral proceedings
01.02.2005 Legal effect of revocation of patent [2005/47]
Appeal following opposition
12.11.2001 Appeal received No. T1212/01
17.01.2002 Statement of grounds filed
03.02.2005 Result of appeal procedure: appeal of the proprietor was rejected
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04.02.2005 Minutes of the oral proceedings despatched
Fees paid
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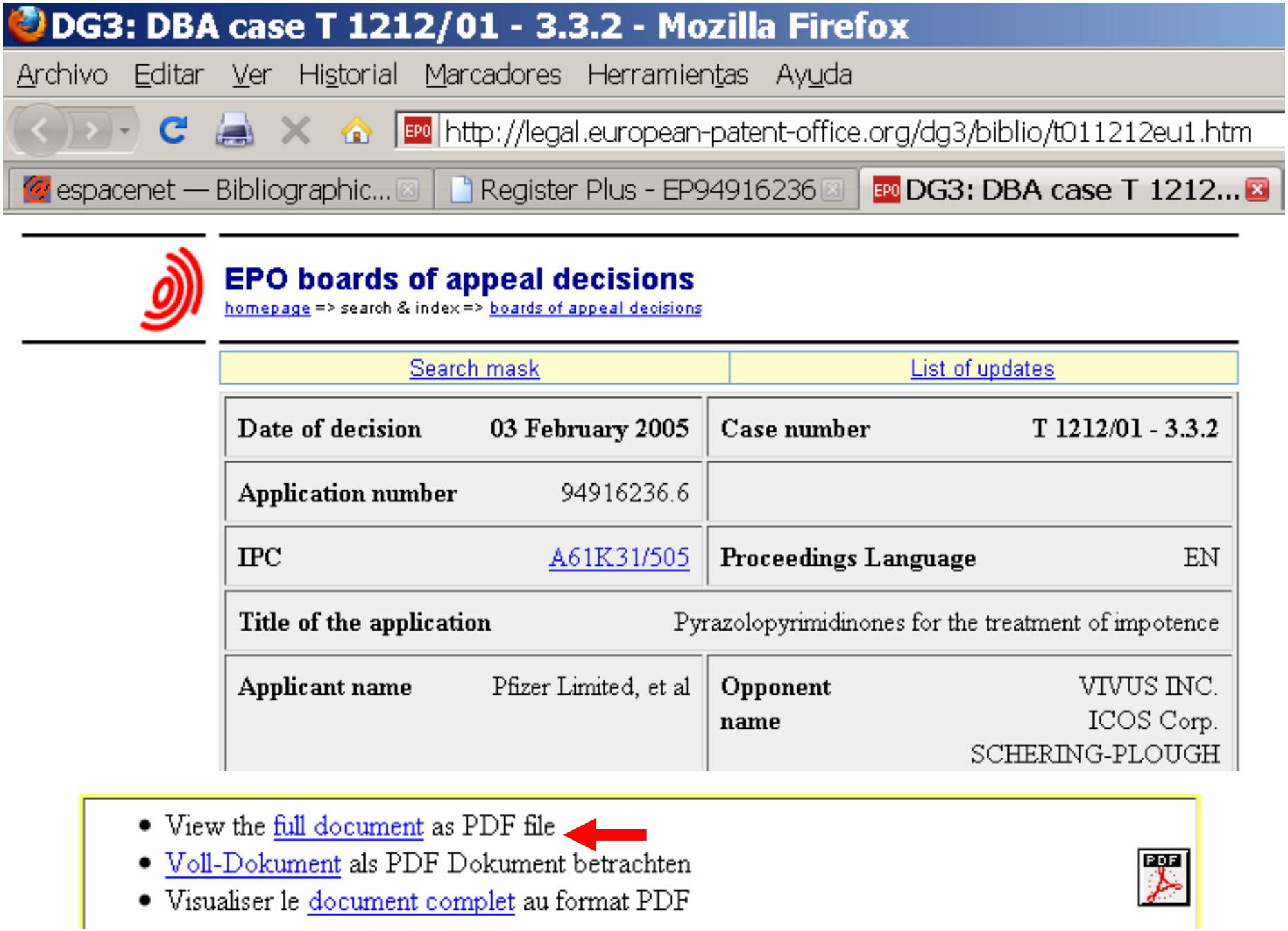
10.04.1997 Renewal fee patent year 04
Lapse
GB 13.05.2003
[2009/01]
Cited in
International search
[XD] EP0463756
[XD] EP0526004
[X] BR. J. PHARMAC. vol. 81, no. 4 , 1984 pages 665 - 674 A. BOWMANN ET AL. 'Cyclic GMP mediates neurogenic relaxation in the bovine retractor penis muscle'
[X] AM. J. PHYSIOL. vol. 264 , February 1993 pages H419 - H422 F. TRIGO-ROCHA ET AL. 'Nitric oxide and cGMP: mediators of pelvic nerve-stimulated erection in dogs'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Date of decision 03 February 2005
Case number T 1212/01 - 3.3.2
Application number 94916236.6
IPC A61K31/505
Proceedings Language EN
Title of the application Pyrazolopyrimidinones for the treatment of impotence
Applicant name Pfizer Limited, et al
Opponent name VIVUS INC.
ICOS Corp.
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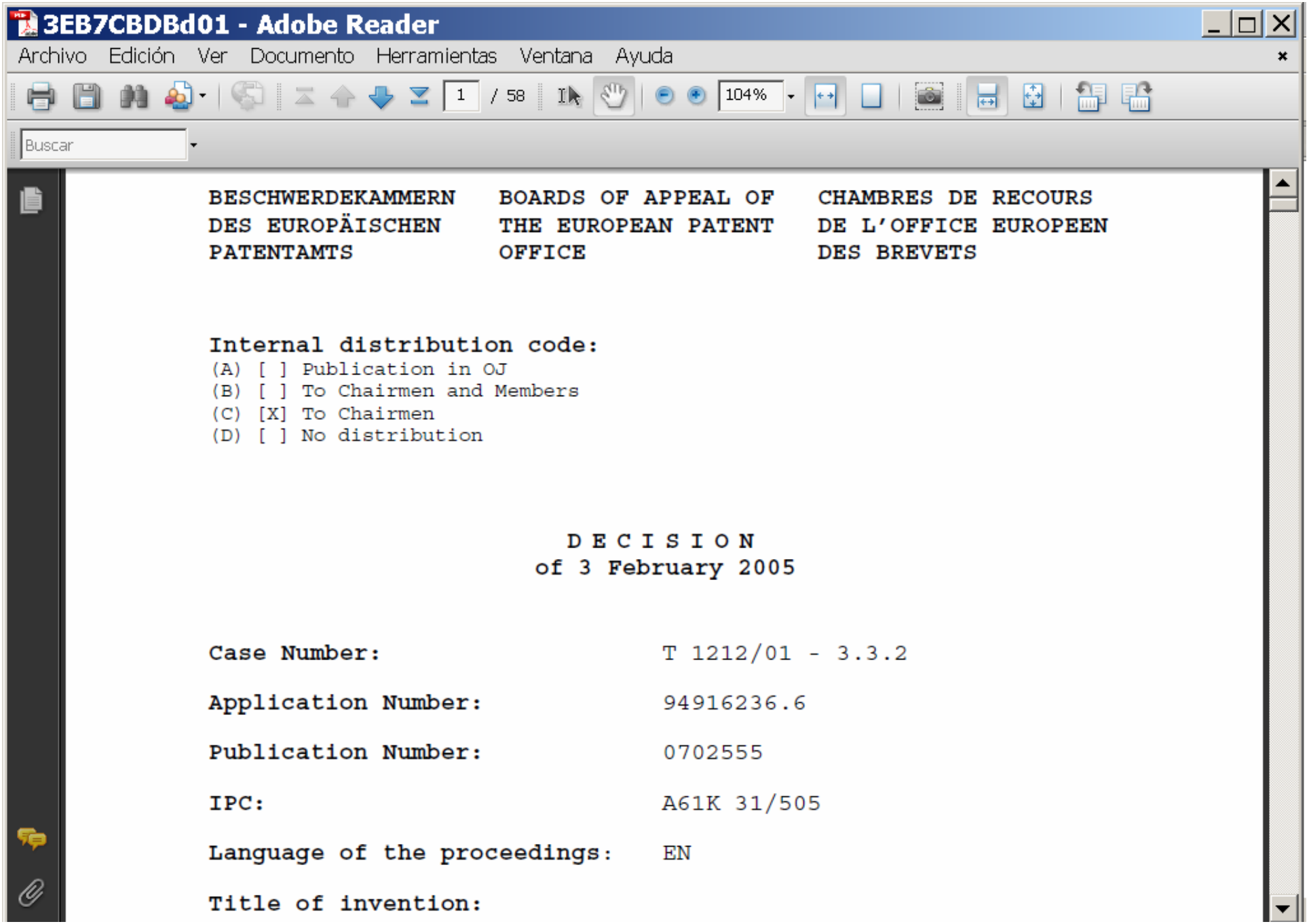
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Case Number: T 1212/01 - 3.3.2
Application Number: 94916236.6
Publication Number: 0702555
IPC: A61K 31/505
Language of the proceedings: EN
Title of invention:

Headword:
Pyrazolopyrimidinones for the treatment of impotence/PFIZER LIMITED ET AL

Relevant legal provisions:
EPC Art. 123(2), 56

EPA Form 3030 06.03

Keyword:
"Main and auxiliary requests 1 and 2 - added matter - yes"
"Auxiliary requests 3 to 5 - inventive step - no"
"Neither technical prejudice nor commercial success establishes inventive step"

Decisions cited:
T 0019/81, T 0060/82, T 0119/82, T 0104/83, T 0048/86,

"Viagra use patent invalid, court rules"

Pfizer's patent on the use of phosphodiesterase-5 (PDE(V)) inhibitors for treatment of male erectile dysfunction (MED) is invalid, the UK Court of Appeal ruled at the end of January. The Court was considering an appeal by Pfizer against a High Court judgement in November 2000 that the patent was invalid on the grounds of obviousness.

Pfizer originally sought patent protection for a number of PDE(V) inhibitors, including sildenafil citrate (Viagra), in 1991, but its patent application referred only to their potential in the treatment of cardiovascular disorders, and made no mention of erectile dysfunction. The patent relating to the use of PDE(V) inhibitors in the treatment of MED was not filed until June 1994.

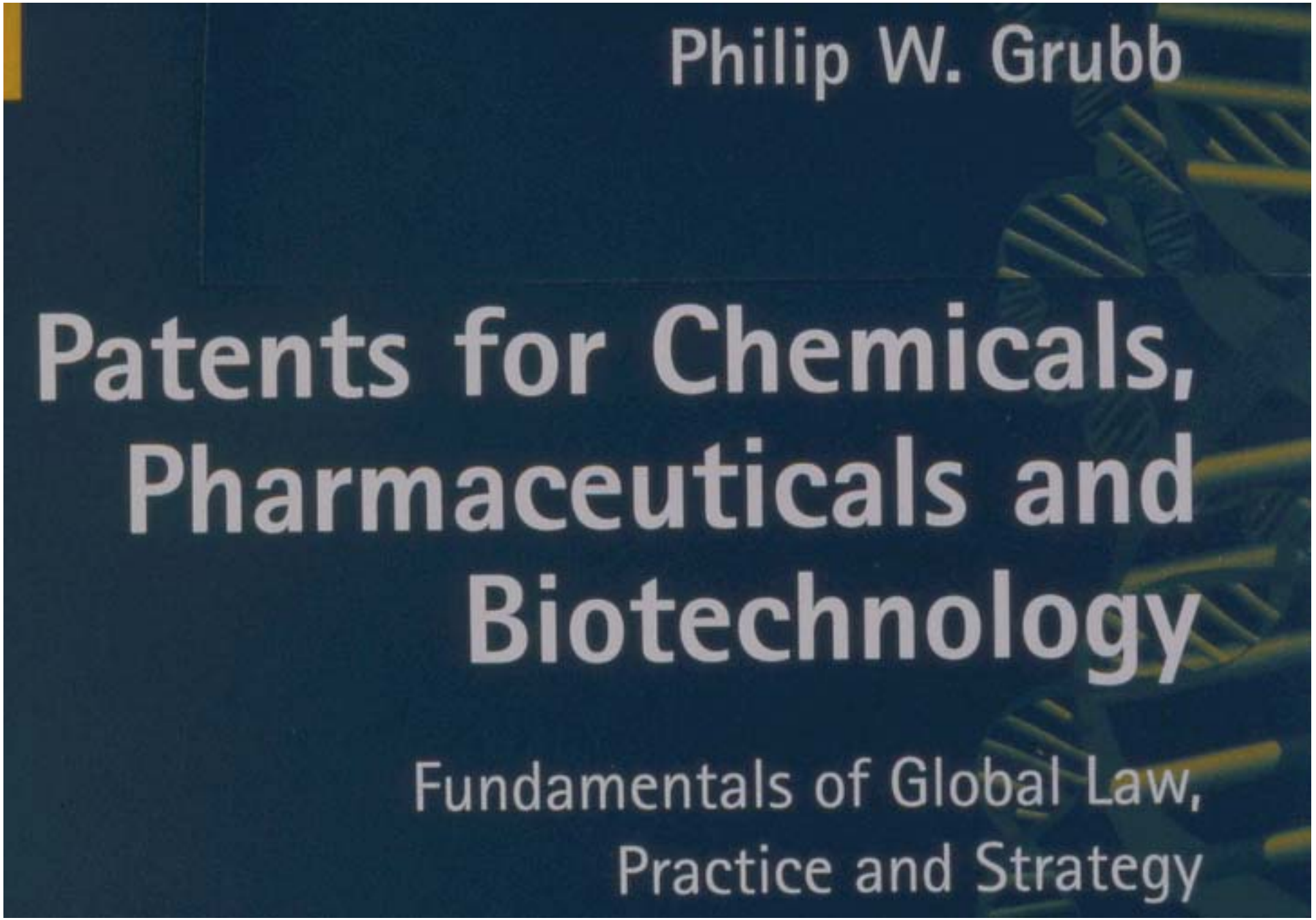
However, in 1992 and 1993 a number of scientific publications appeared detailing studies of the role of nitric oxide in the relaxation of the smooth muscle of the penis. Such relaxation enables blood to fill the tissues, thereby causing an erection...

In its judgement, the Appeal Court said that several facts were known at the time the Viagra patent was filed. Not only had the structure of Viagra and its inhibitory effect on cGMP PDE(V) been elucidated, but it was also known that cGMP PDE(V) broke down the cGMP that contributed to an erection. It had also been suggested by this time that cGMP PDE(V) inhibitors might be useful in the treatment of impotence.

The Court considered that the difference between the content of these articles and the concept of claim 1 was obvious. In other words, anyone reading the articles would have realised that PDE(V) inhibitors were likely to be effective in the treatment of MED. "There was nothing inventive in trying them out for that purpose," it said.

However, the Court said that there was every reason to expect a good result in the treatment of MED by using cGMP PDE(V) selective inhibitors. The Court also rejected Pfizer's assertion that it discovered the potential of sildenafil in the treatment of MED through the observation of unwanted erections in patients taking part in trials of the drug's cardiovascular properties. In effect, it said the fact that the erections came as a surprise to Pfizer did not necessarily imply invention.

ERA-News (5.02.2002), No. 120, p18.



Oxford University Press, 2004 (4th edition, 511 pp.) ISBN 0-19-927378-2

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PHILIP W. GRUBB
European Patent Attorney

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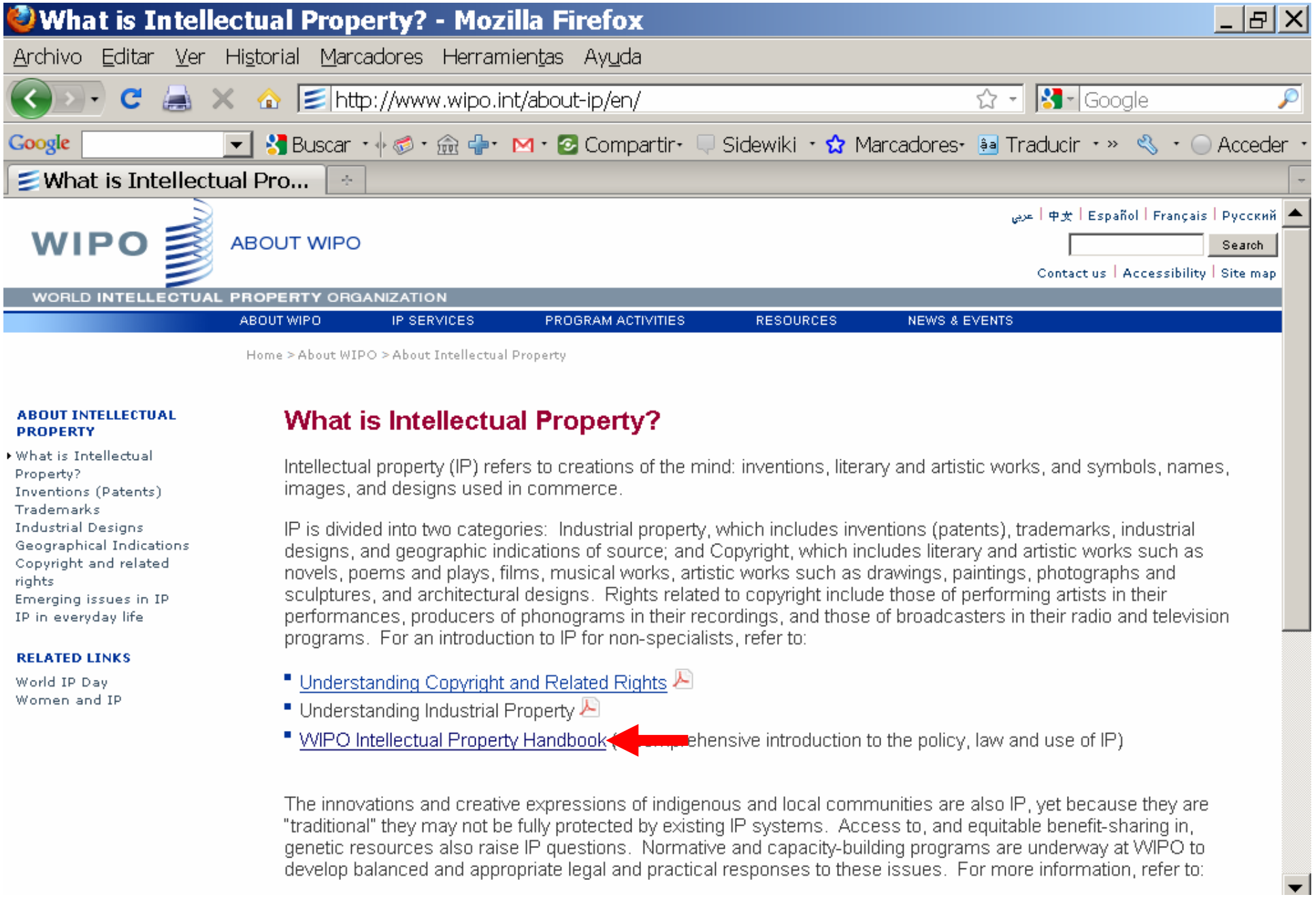
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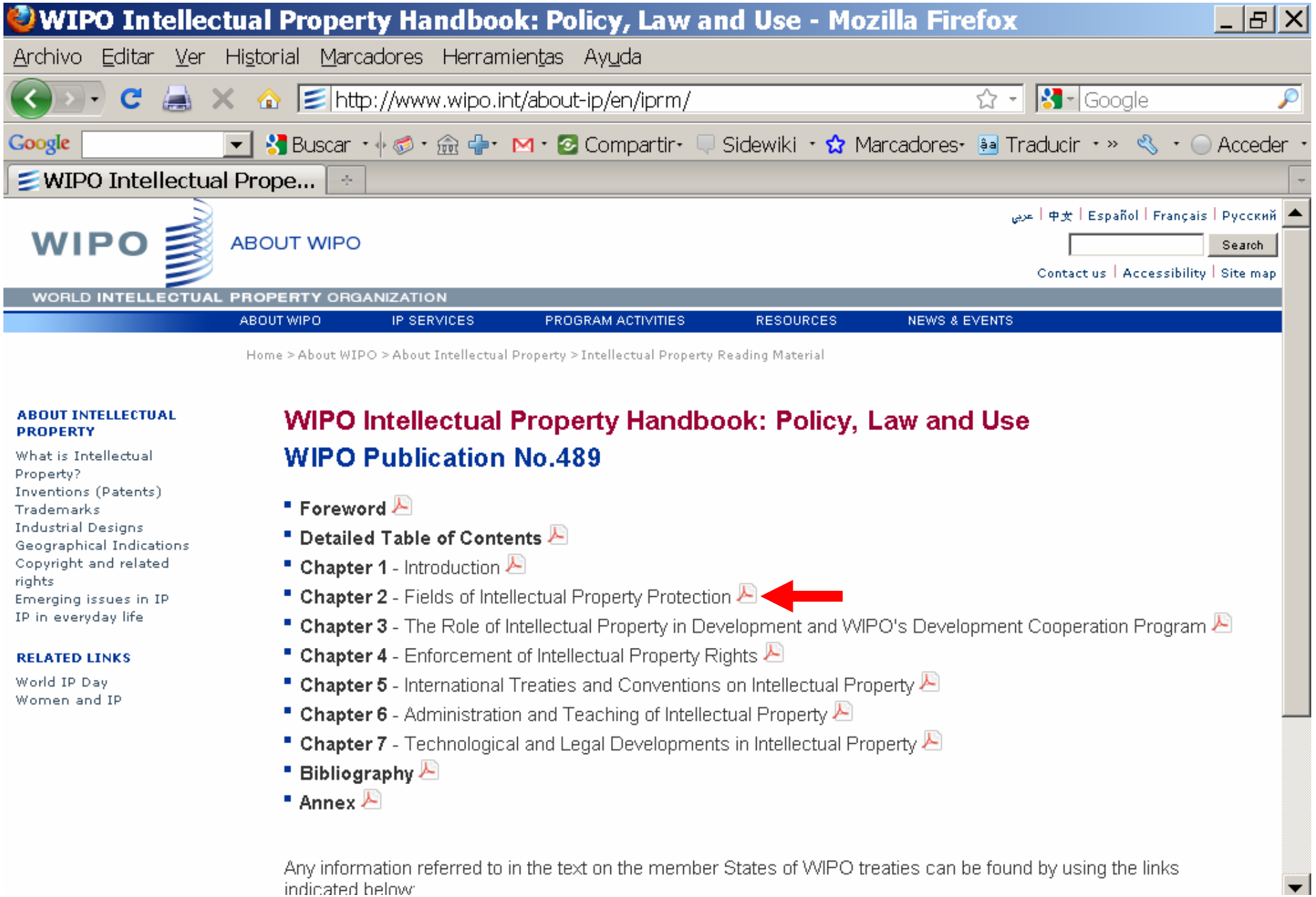
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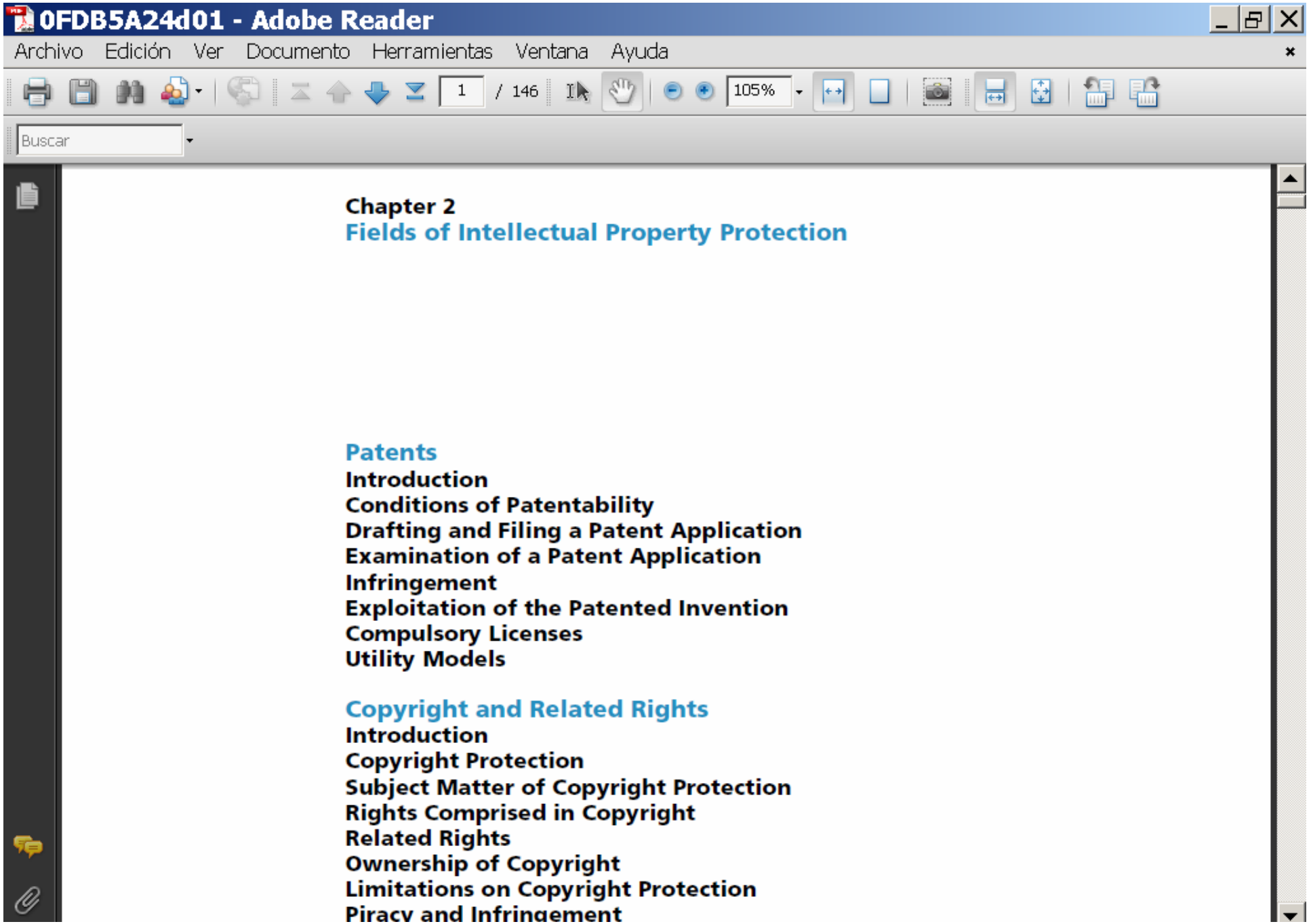
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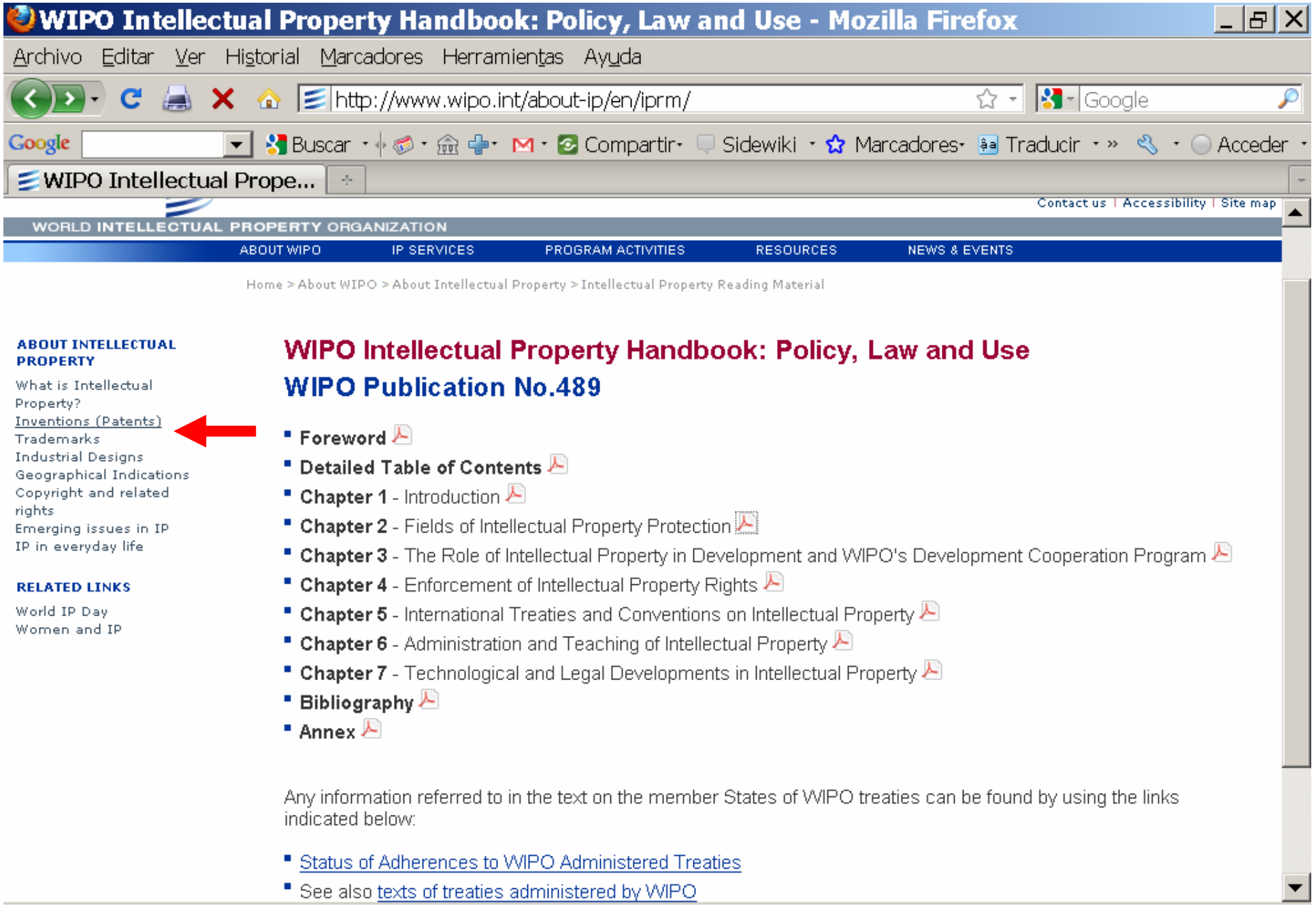
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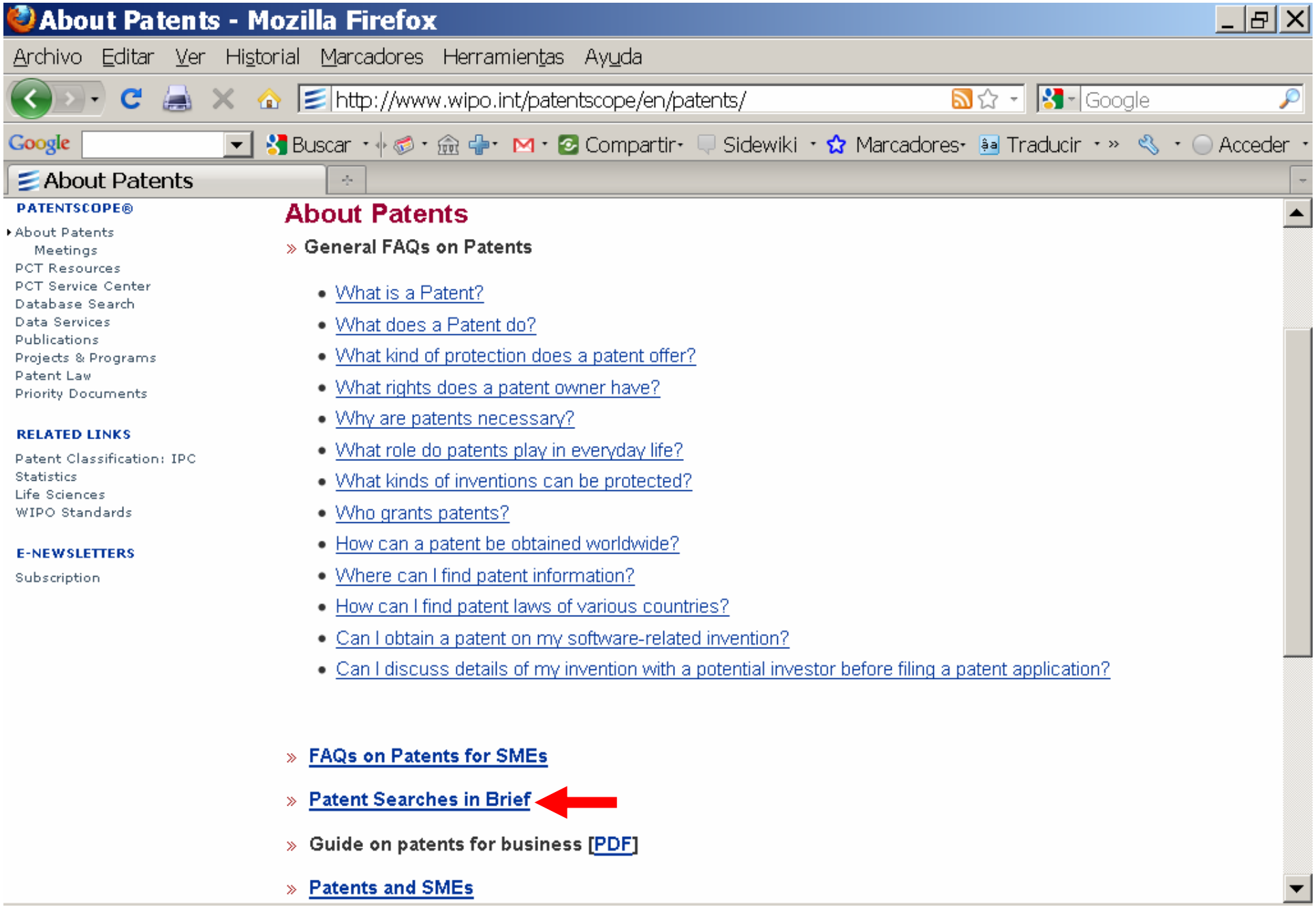
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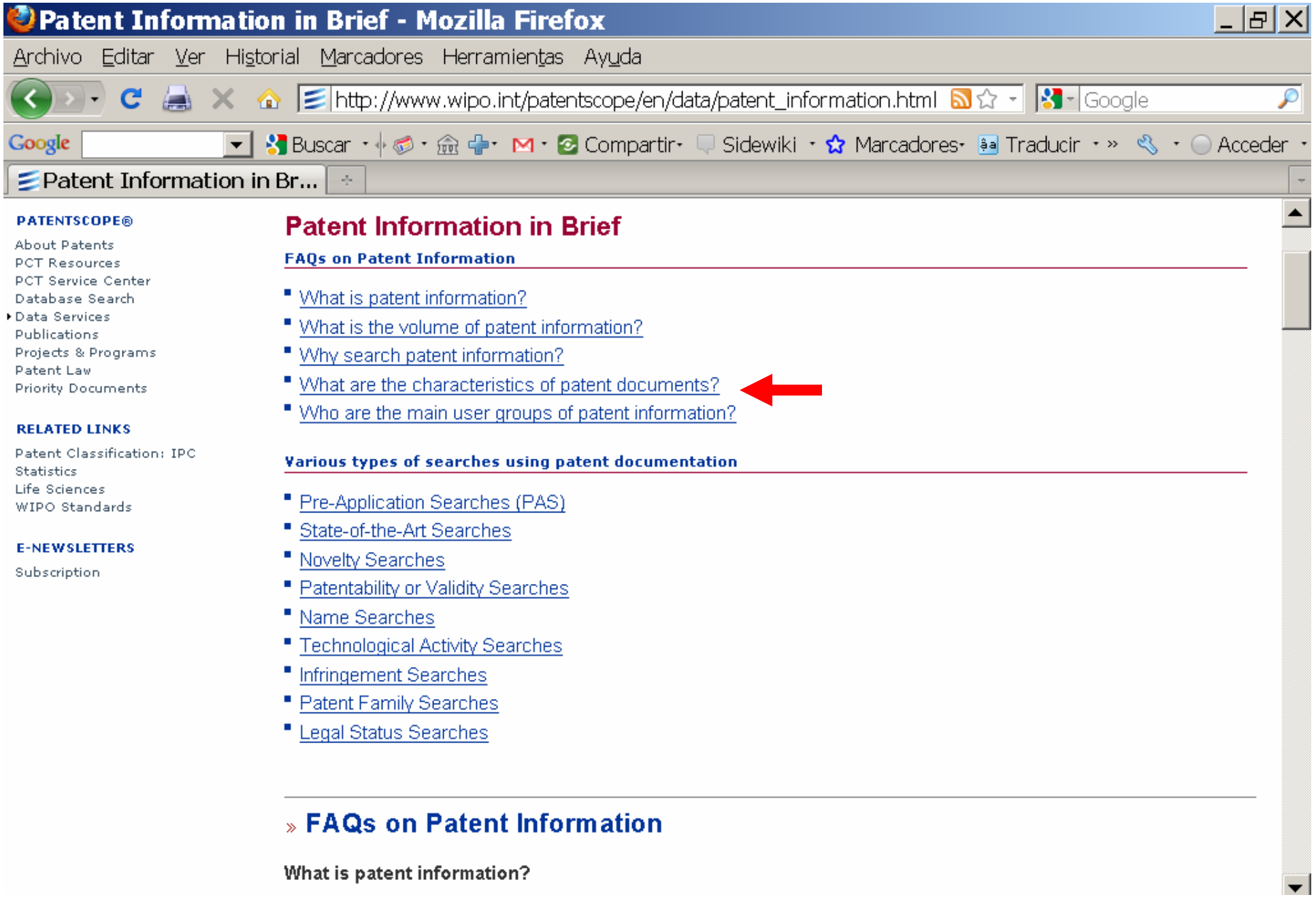
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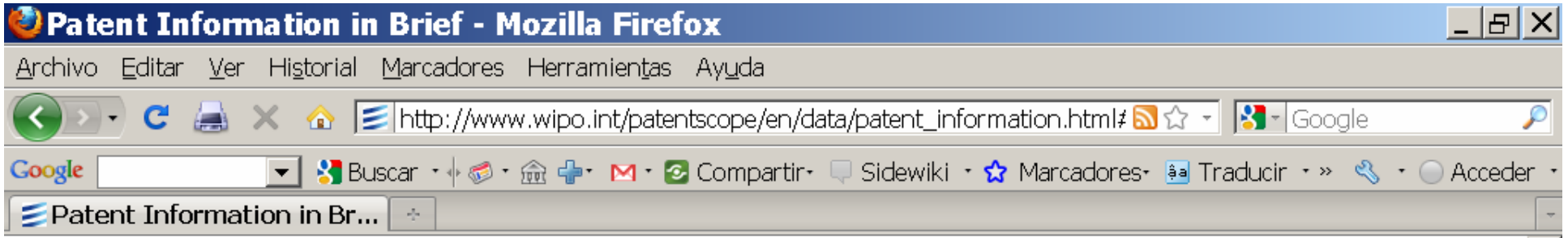

What are the characteristics of patent documents?

Hereafter are given brief descriptions of specific characteristics of patent documents, which make them extremely useful sources of technological information, with some clear advantages over other sources of information.

Description, Claims, Drawings

Patent documents generally have a fairly uniform structure that facilitates the extracting of information: the claims give the essence of what is new; the description gives the background to the invention (what was known before the invention, i.e., the "prior art"), and defines the difference between the pre-existent technology and what the invention contributes, as a new matter, as a step forward, to technology development; often patent documents contain also drawings, that illustrate the invention that is claimed.

Technological information is disclosed by describing the inventions in accordance with the requirements of the applicable patent law and by indicating the claimed novelty and inventiveness by reference to the existing state of the art. Certain patent documents are published together with a search report showing a series of references found at the occasion of a documentary search made to establish in a first instance the level of novelty of the claimed invention.

Abstracts

Many patent documents contain an abstract. Abstracts allow a general idea to be formed of the contents of the document within a few minutes, and in any case a much shorter time than would be required to read the full text of the patent document.

Classification

Patent documents bear "classification symbols" which facilitate very much finding and extracting relevant information from them. For the purposes of maintaining search files and performing searches for the state of the art, patent offices classify patent documents according to the field or fields of technology to which their contents relate. Although several classification systems exist, today the International Patent Classification (IPC), which was established by an intergovernmental agreement concluded more than 30 years ago and administered by WIPO, is the most widely applied by all the major industrial property offices. The main part of the high cost of processing and classifying patent documents for building up search files, and of keeping the classification system up to date, is borne directly by the


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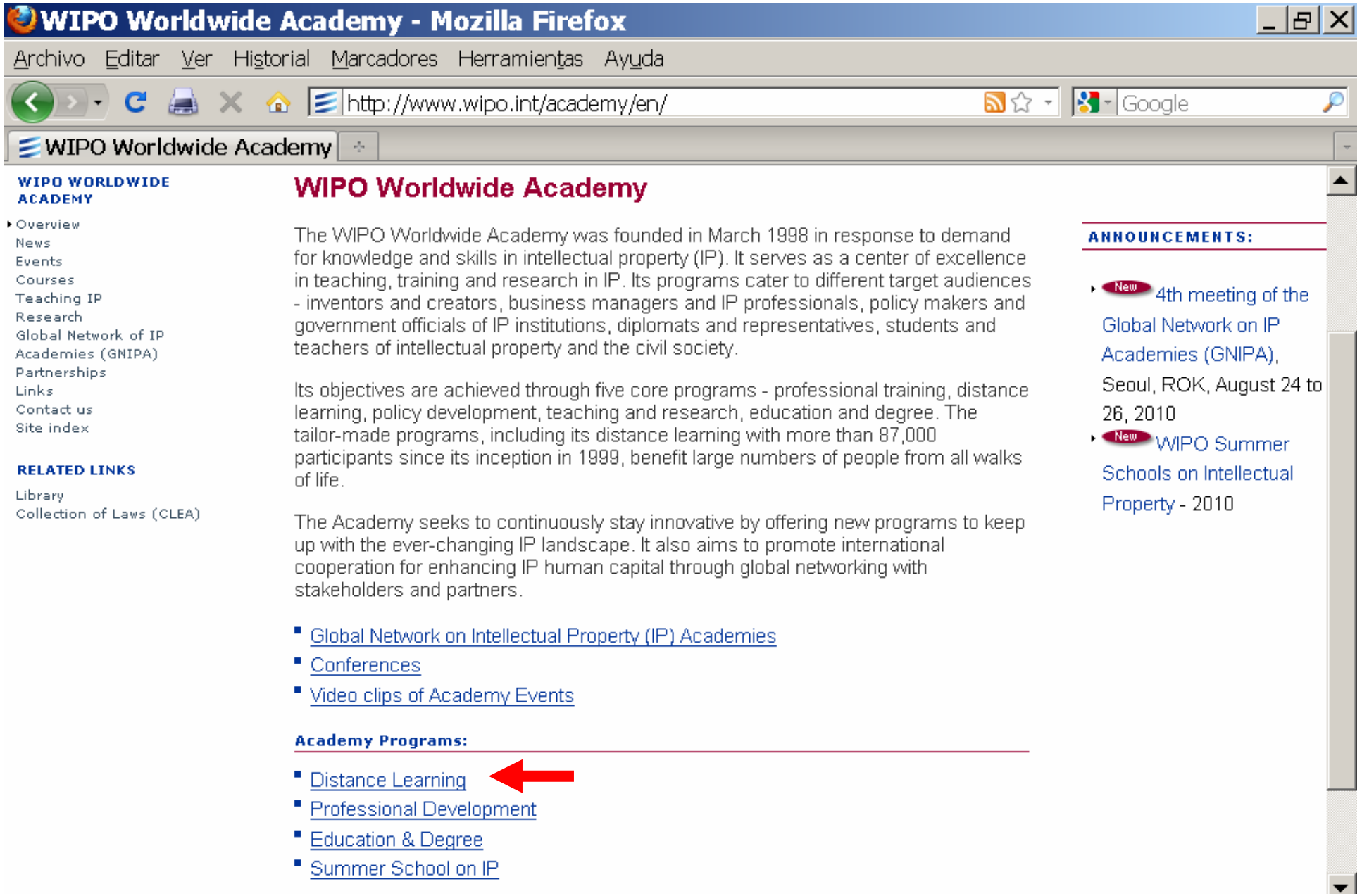
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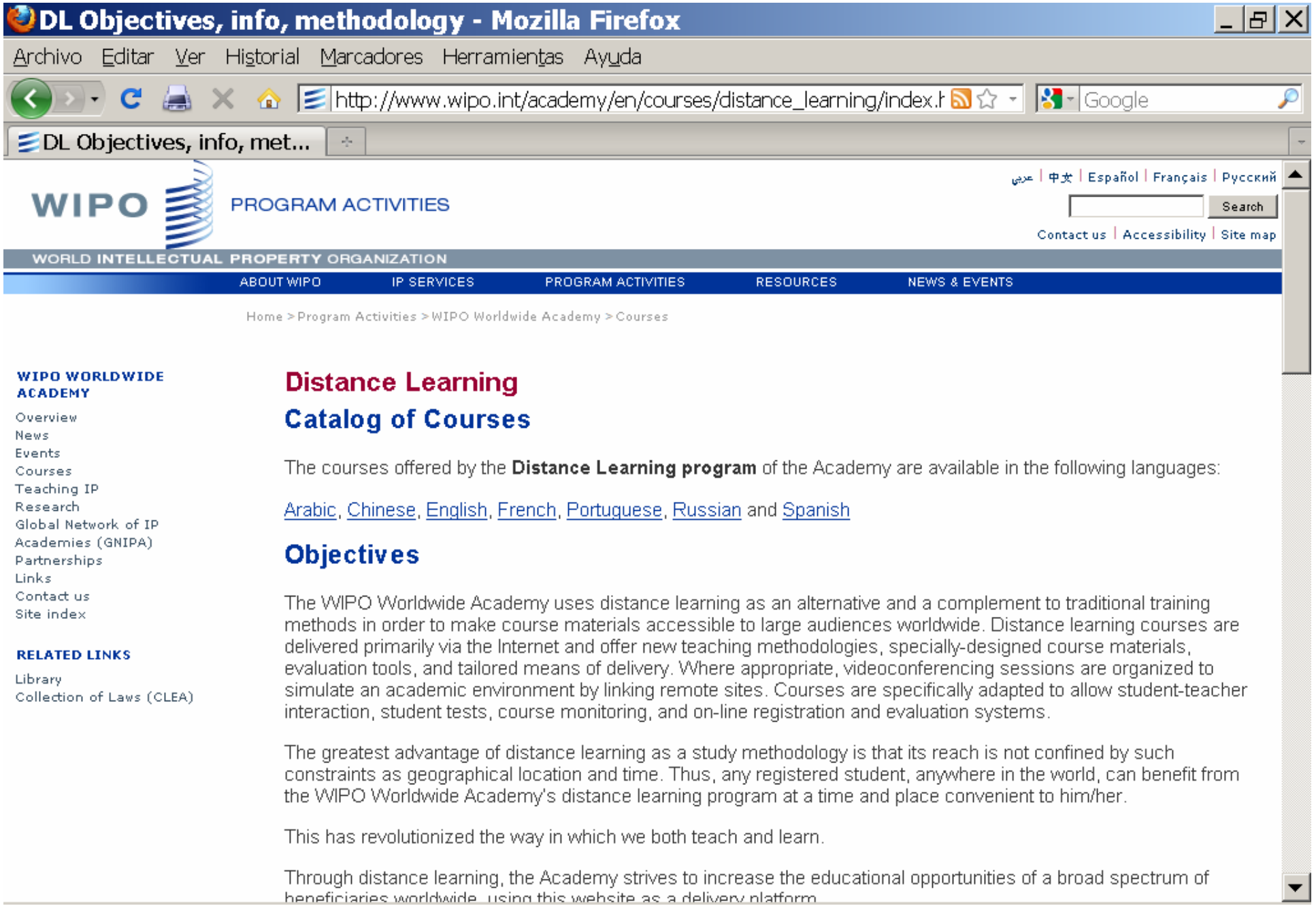
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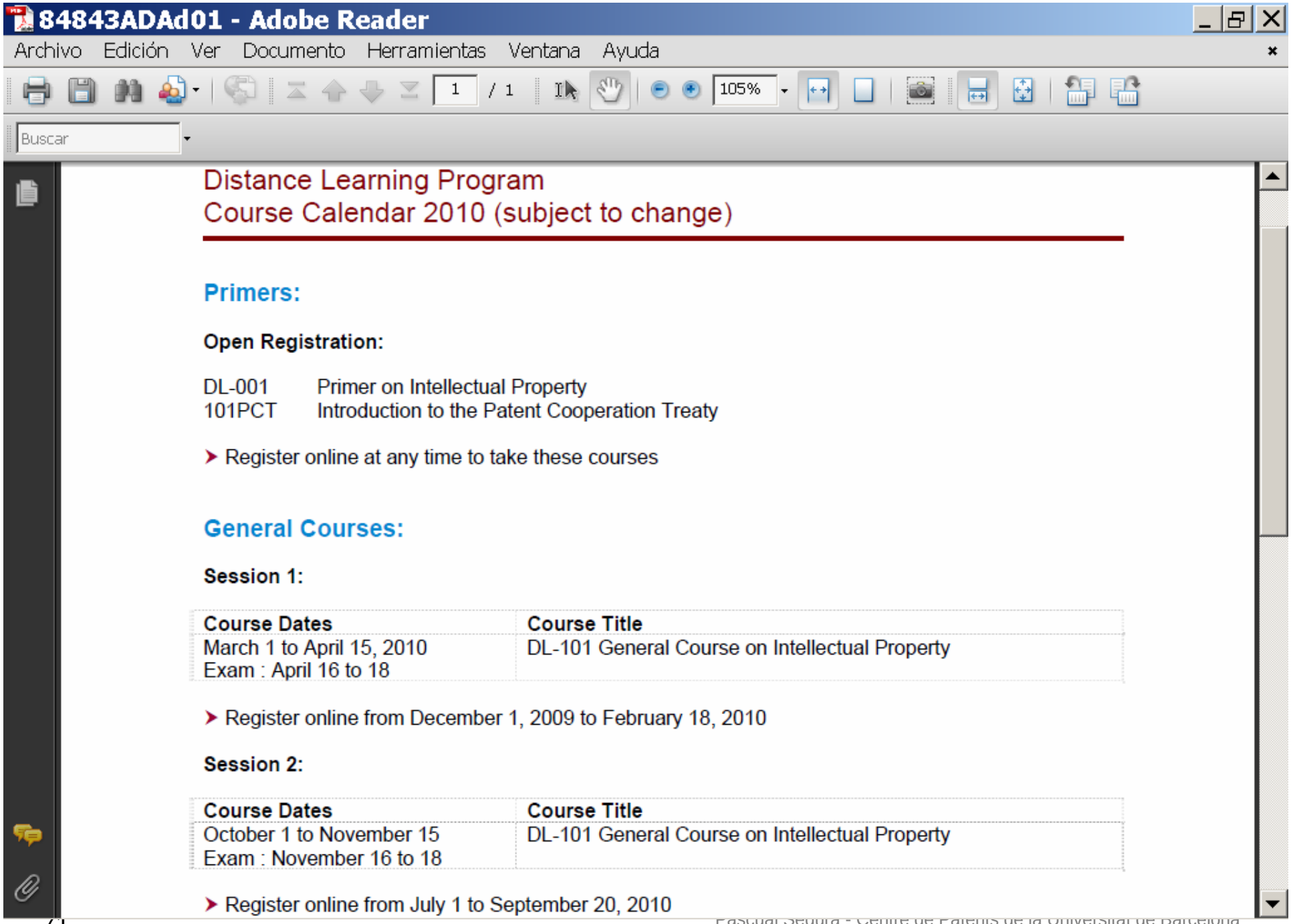

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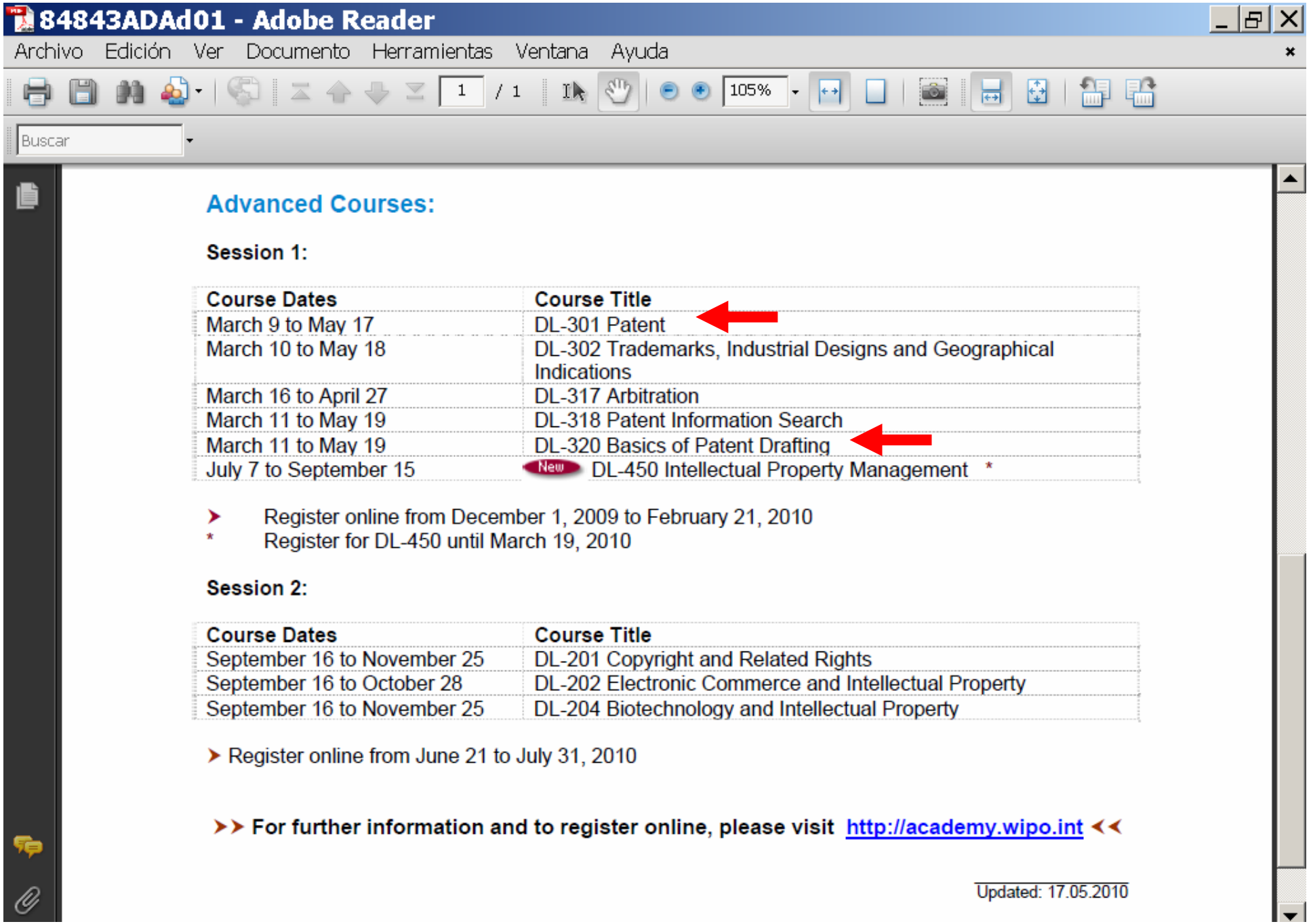

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Course Dates	Course Title
March 9 to May 17	DL-301 Patent
March 10 to May 18	DL-302 Trademarks, Industrial Designs and Geographical Indications
March 16 to April 27	DL-317 Arbitration
March 11 to May 19	DL-318 Patent Information Search
March 11 to May 19	DL-320 Basics of Patent Drafting
July 7 to September 15	New DL-450 Intellectual Property Management *

➤ Register online from December 1, 2009 to February 21, 2010
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Session 2:

Course Dates	Course Title
September 16 to November 25	DL-201 Copyright and Related Rights
September 16 to October 28	DL-202 Electronic Commerce and Intellectual Property
September 16 to November 25	DL-204 Biotechnology and Intellectual Property

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DL-301E Patents

Summary: This advanced course is intended to explain the basic principles of patents, their economic impact, the process of patenting, describe technology transfer, patent pool and the traditional use of patents by centers of knowledge such as universities. It covers the important aspects of the patent document used in the enforcement of patent rights and the various aspects of enforcement.

Tutored: Yes **Duration:** 100 hours **Cost:** Fee List
Next Session: March 9 to May 17, 2010
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US dollar	400	standard fee
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DL-320E Basics of Patent Drafting

Summary: The intention of this advanced distance learning course on the basics of patent drafting is to introduce you to, and illustrate the concepts, of patent drafting. Some practical exercises are proposed with enough background and description to help you gain confidence to form a credible set of claims.

Tutored: Yes **Duration:** 100 hours **Cost:** Fee List
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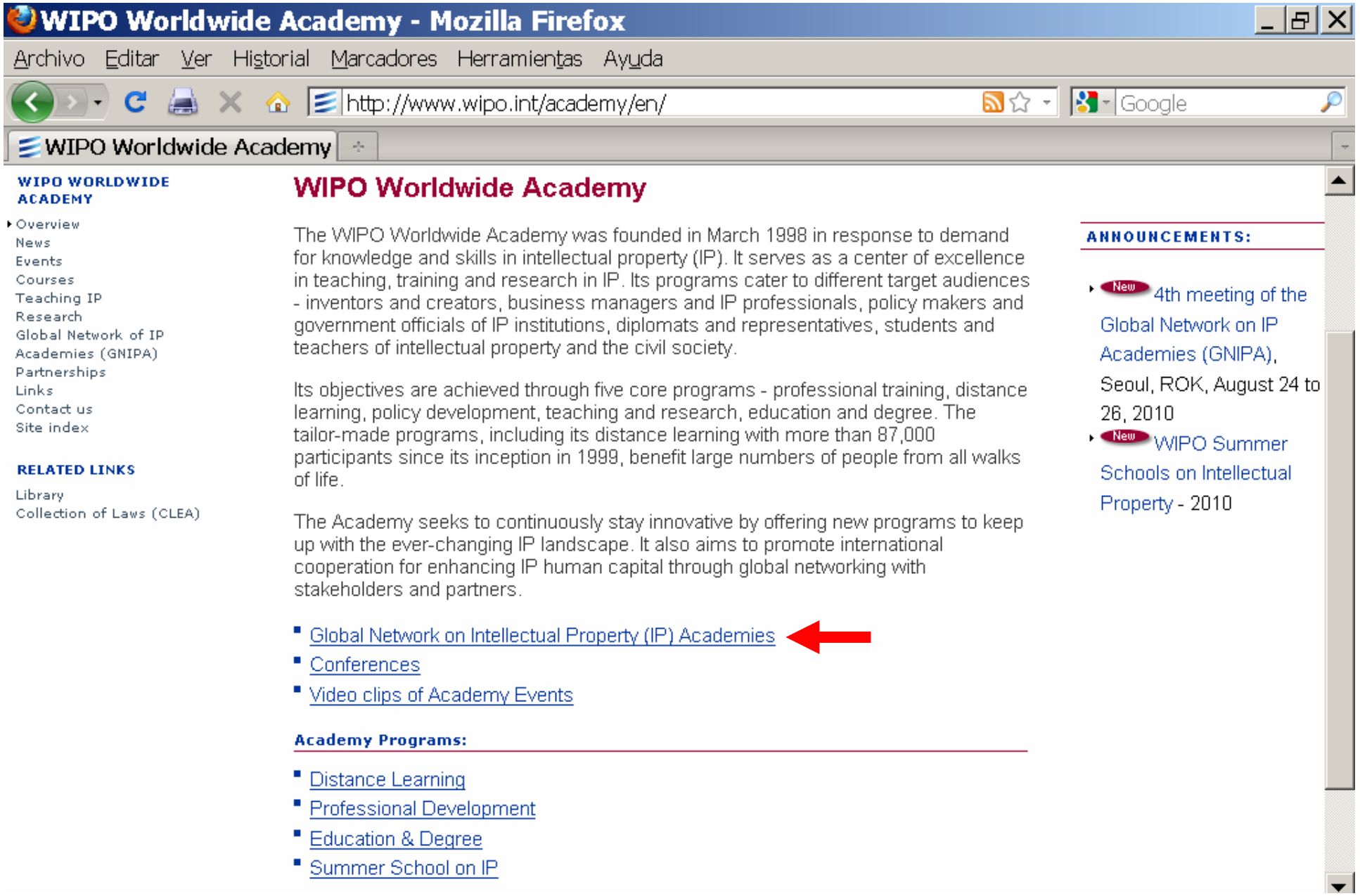
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China	State Intellectual Property Office of China (SIPO)	www.sipo.gov.cn
Croatia	State Intellectual Property Office of Croatia (SIPO)	www.dziv.hr
Cuba	Industrial Property Office of Cuba (OCPI)	www.ocpi.cu
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United States of America	United States Patent and Trademark Office Global Intellectual Property Academy	http://www.uspto.gov/web/offices/dcom/olia/training_history.htm

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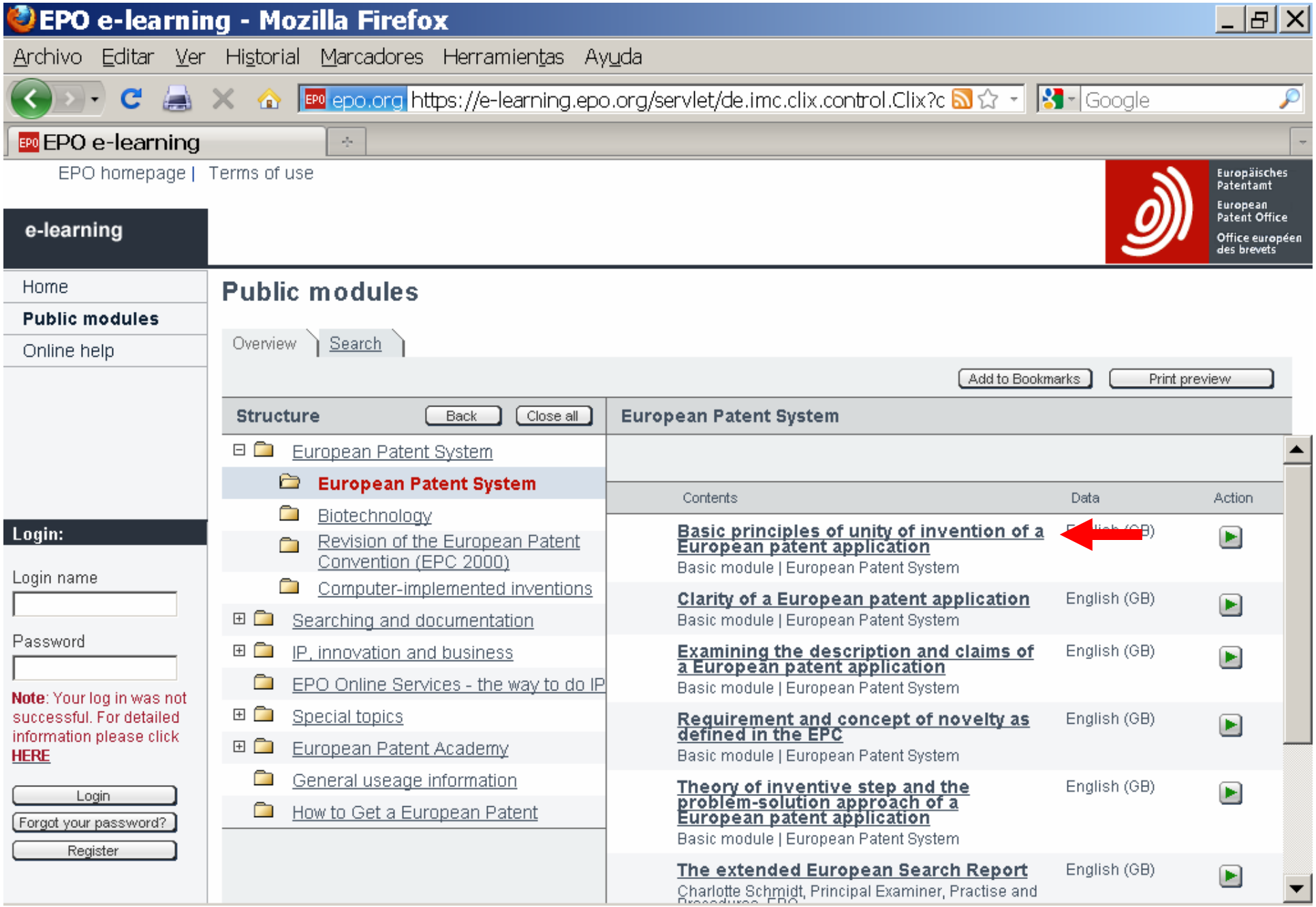
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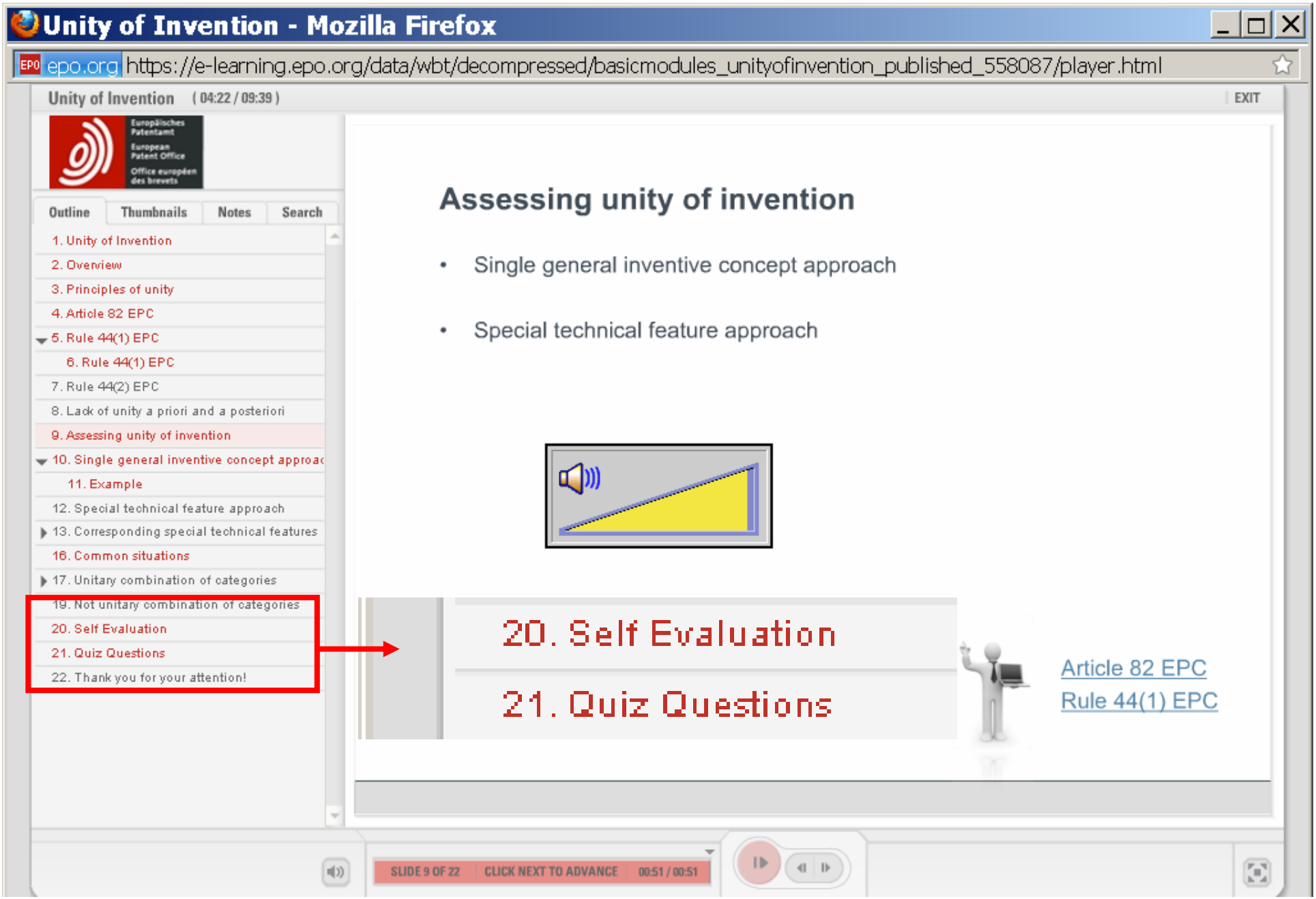
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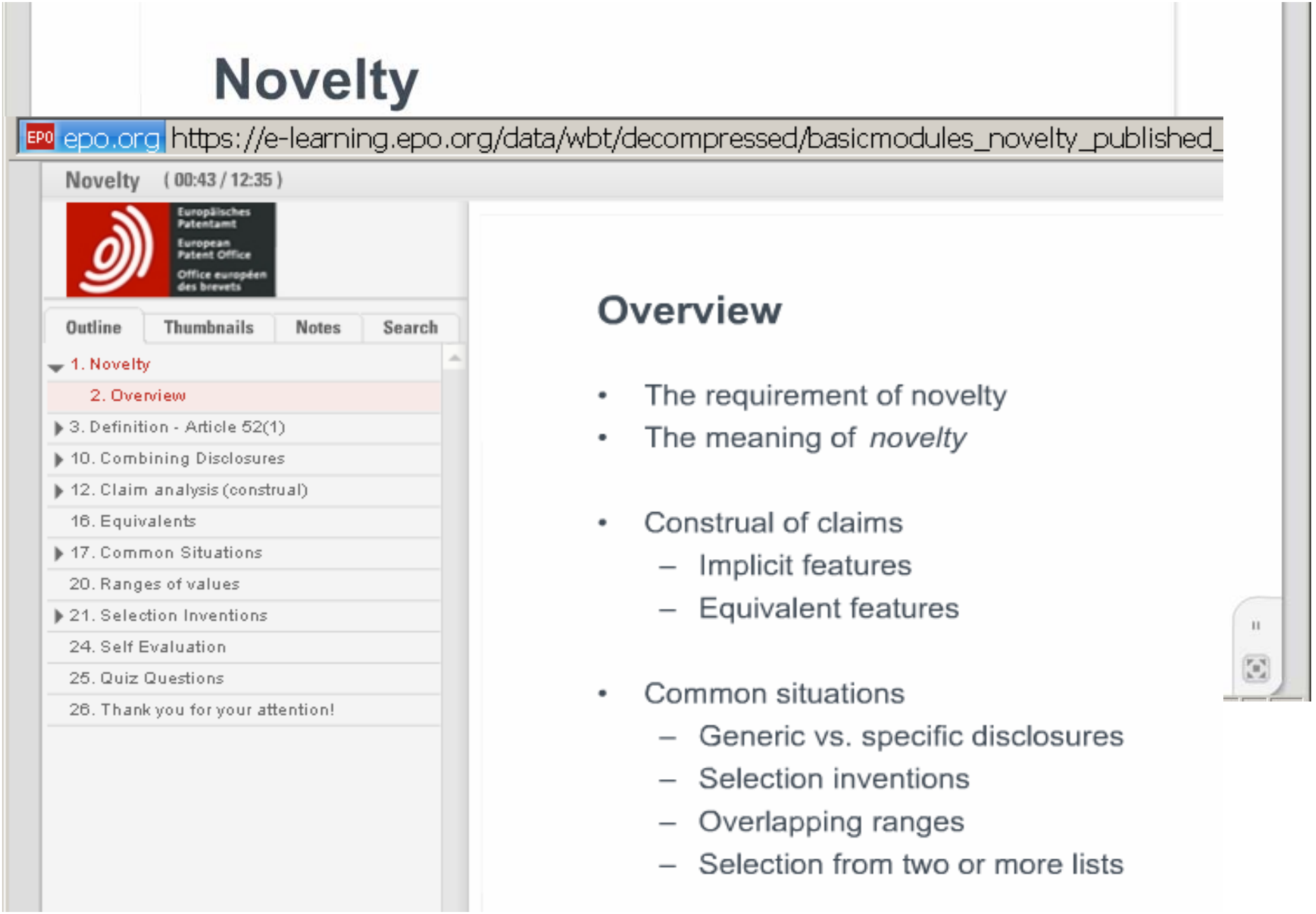
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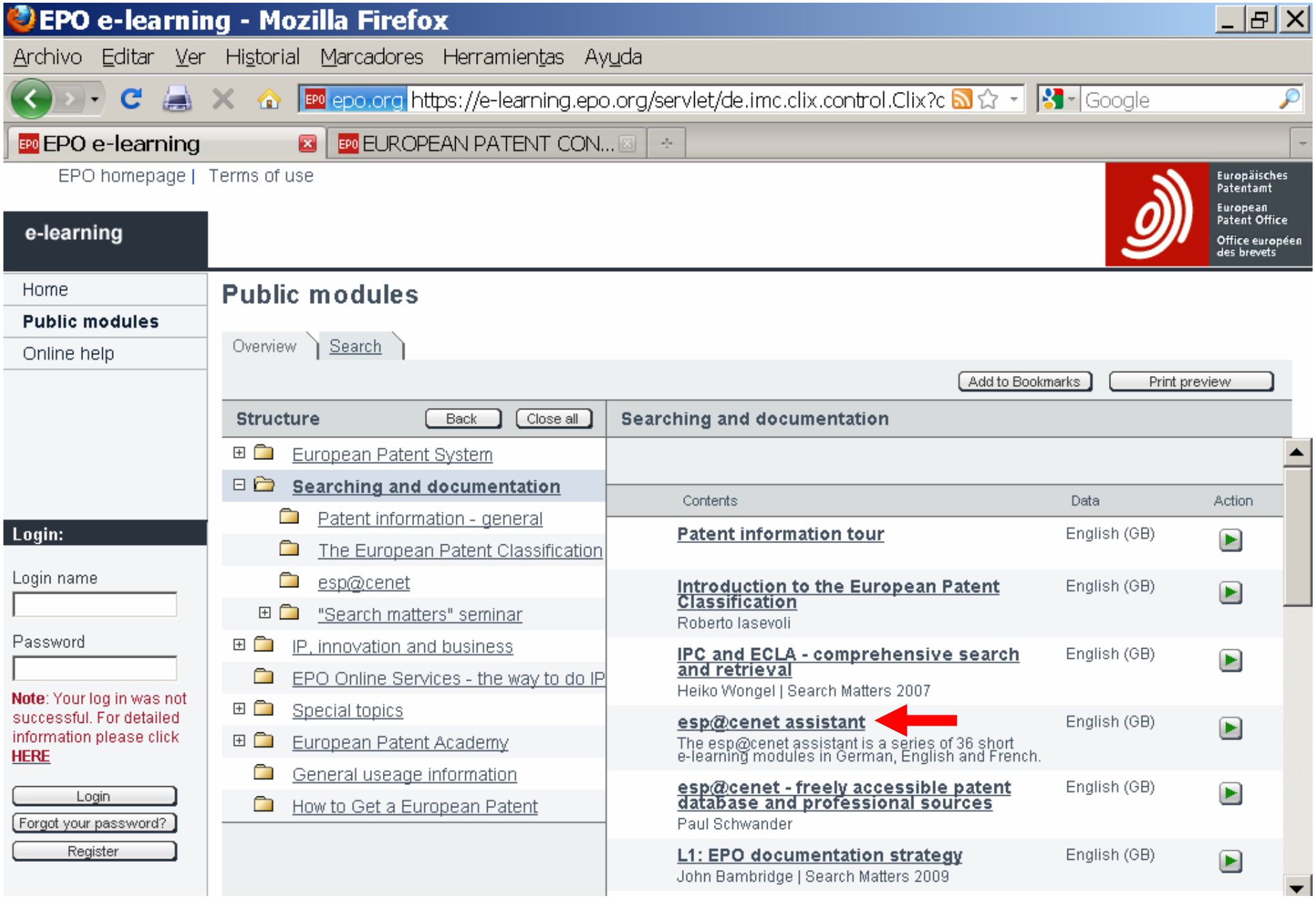
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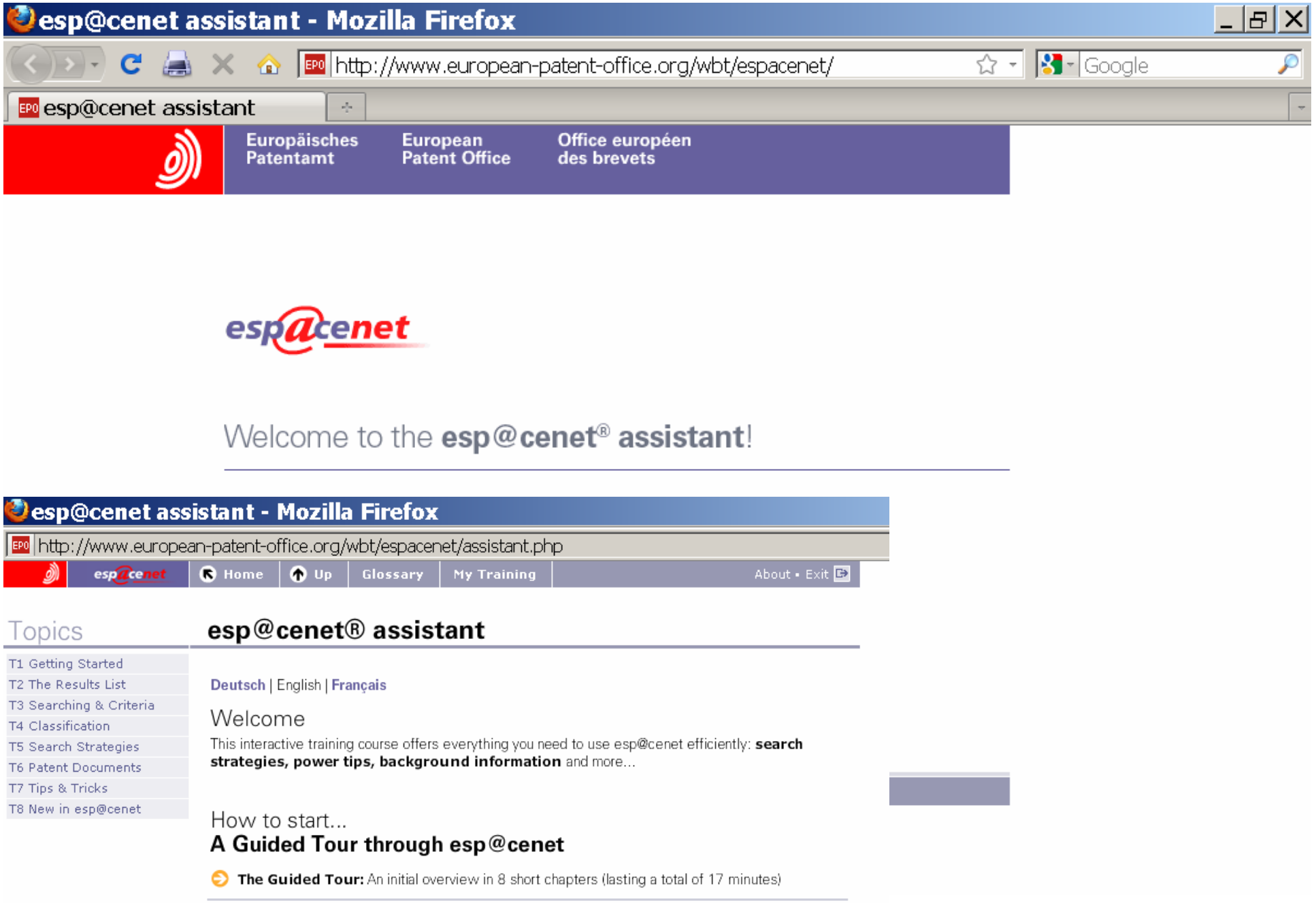
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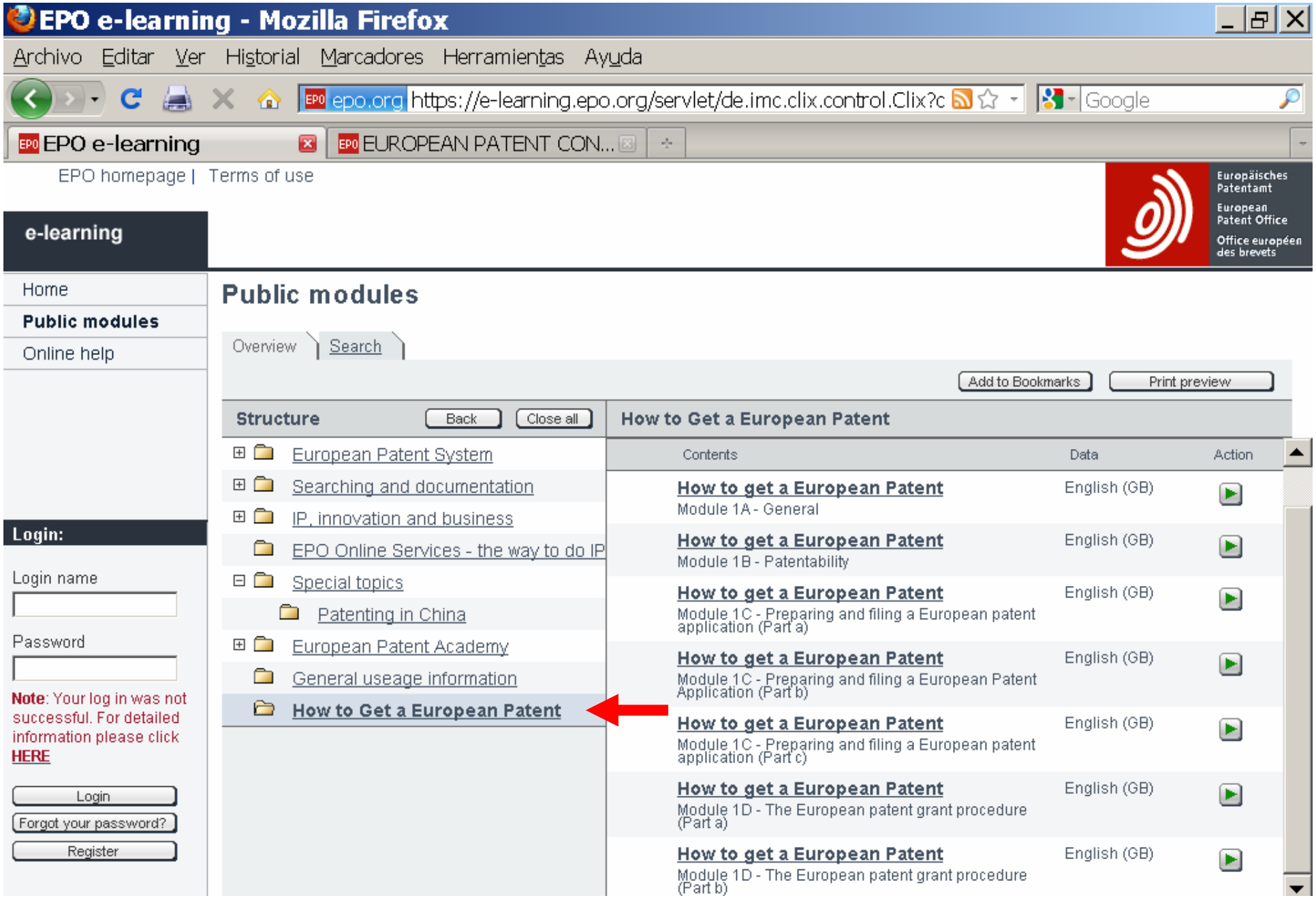
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Guide for applicants

Module 1 - General

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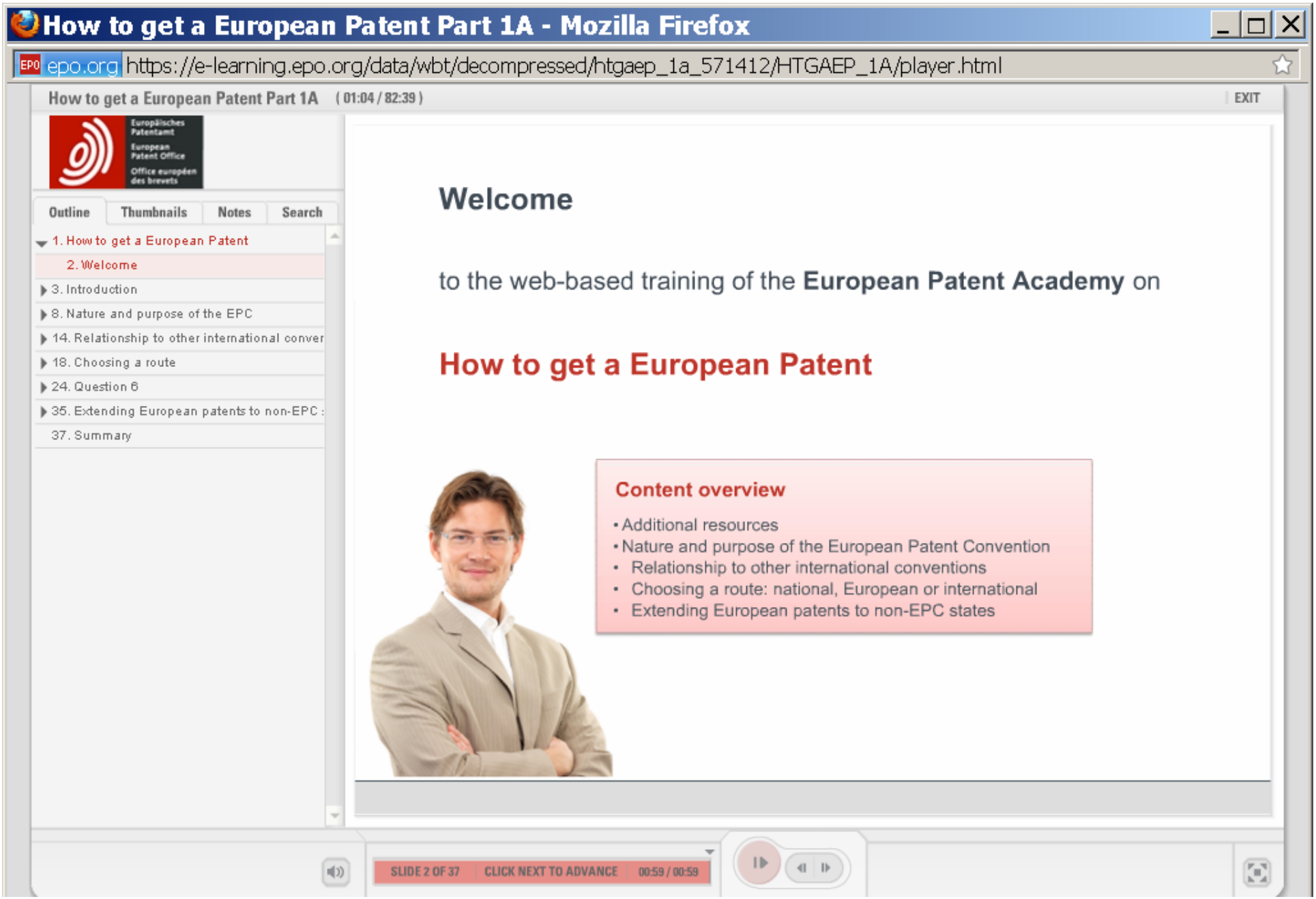
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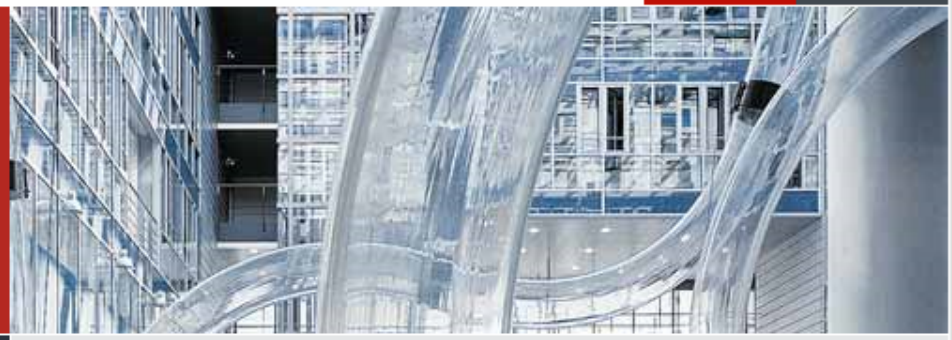
How to apply for a patent

A simple guide to the grant procedure

More information



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News

12.5.2010

EBoA confirms EPO approach to computer programs

Today the Enlarged Board of Appeal of the EPO handed down its opinion on referral G3/08, taking the opportunity to set out and confirm the approach of the EPO regarding the patentability of computer programs under the European Patent Convention (EPC).

1.5.2010

Welcome, Albania!

Albania becomes the 37th member state of the EPO. European patents are now valid in up to 40 countries and reach a market of about 570 million people.

Updates

25.5.2010

Decision of the President of the European Patent Office dated 11 May 2010 concerning the entrustment to non-examining staff of certain duties normally the responsibility of the examining or opposition divisions

21.5.2010

Enlarged Board of Appeal: new petition for review (R 6/10 and R 7/10)

18.5.2010

Asian patent information: Chinese patent monitoring services now available

17.5.2010

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Grant procedure

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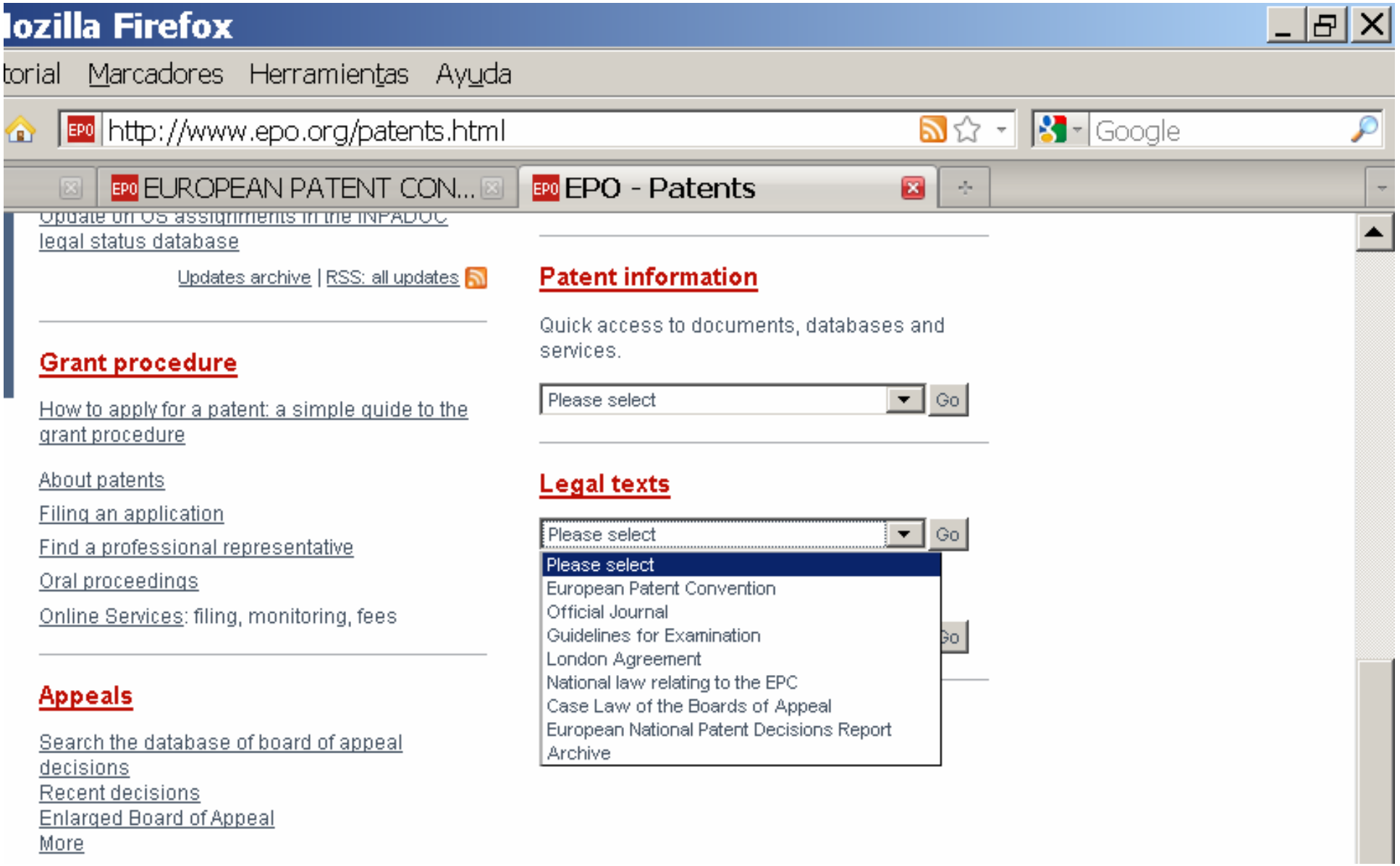
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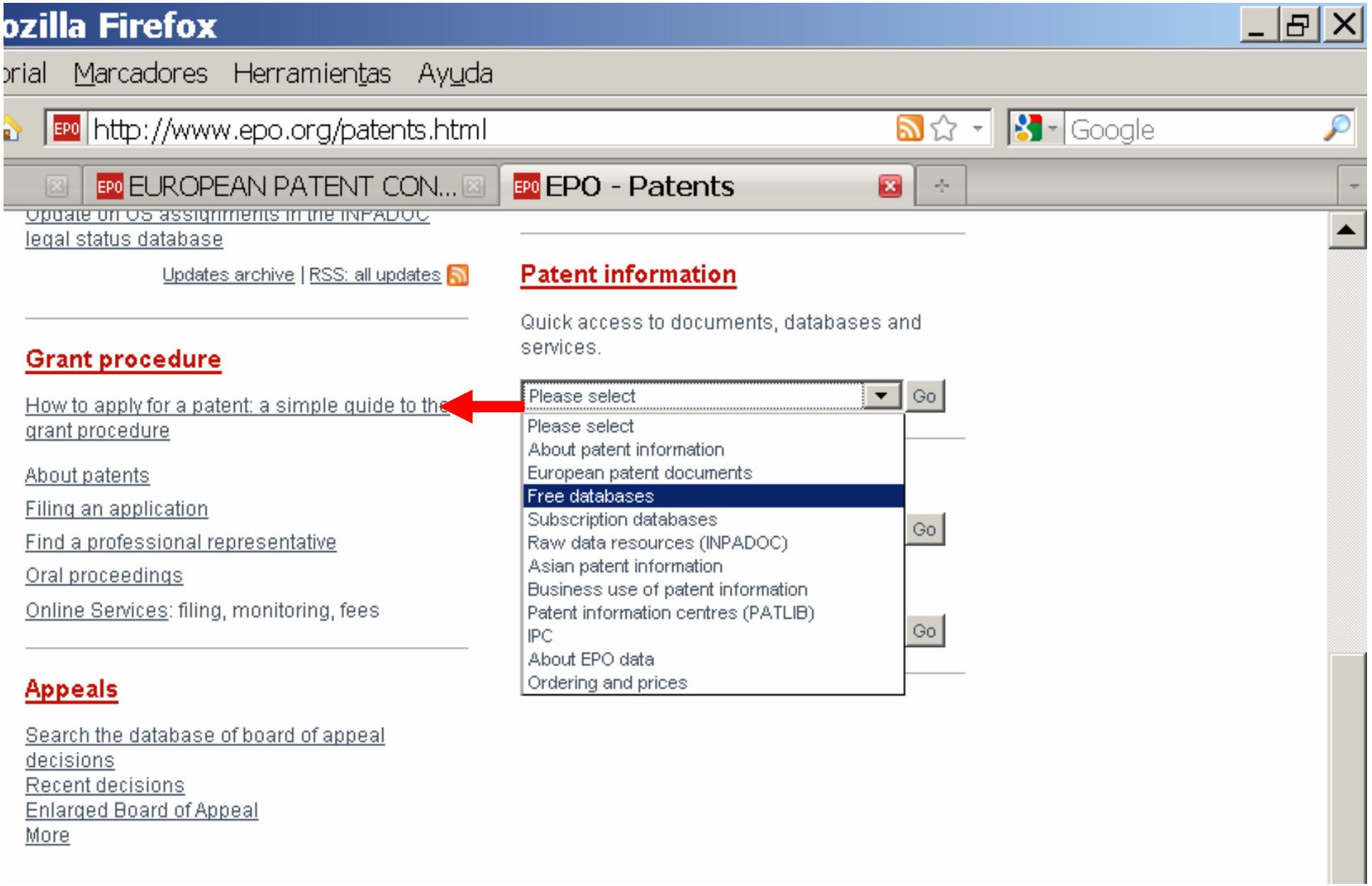
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How to apply for a European patent

A step-by-step guide to the grant procedure

This guide provides basic information about the steps involved in the European patent granting procedure. Before applying for a patent, you should make sure that this is the best option for your invention. If you are unsure, please refer to the "About patents " page and the FAQ , which are linked to from step 1.

1 Before applying for a European patent

Make sure that you know the answer to these questions before you apply:

- What is an invention?
- What is a patent?
- What is the purpose of a patent?
- What are the advantages of a European patent?
- How can I get patent protection?
- How can I get a European patent?

- About patents
- FAQ
- The seven deadly sins of the inventor
- European Patent Convention
- EPO Online Services
- *esp@cenet* (patent information database)
- Patent information
- Glossary

2 Application

There are different routes to patent protection and the best route for you will depend on your invention and the markets your company operates in. The European Patent Office accepts applications under the European Patent Convention (EPC) and the Patent Cooperation Treaty (PCT). If you are seeking protection in only a few countries, it may be best to apply direct for a national patent to each of the national offices.

A European patent application consists of:

- a request for grant
- a description of the invention
- claims
- drawings (if any)
- an abstract.

- Grant procedure
- European applications
- International applications
- National applications
- Fees and expenses
- Guide for applicants - Part 1
- Guide for applicants - Part 2
- EPO Online Services
- Find a professional representative
- PatentIn software (for filing of sequence listings)

Guide for applicants. Part 1

How to get a European patent

The "Guide for applicants" has been designed to provide inventors, companies and their representatives with an outline of the procedure involved in applying for a European patent, offering practical advice to smooth the way through the various stages.

The Guide cannot go into the details or specific issues of the European patent grant procedure, and it does not constitute an official commentary on the European Patent Convention (EPC).

If you need more detailed information, you are advised to consult the Guidelines for Examination in the European Patent Office, a comprehensive guide to every stage of the grant procedure and to EPO practice.

Order "Guide for applicants. Part 1"

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Guide for applicants. Part 1

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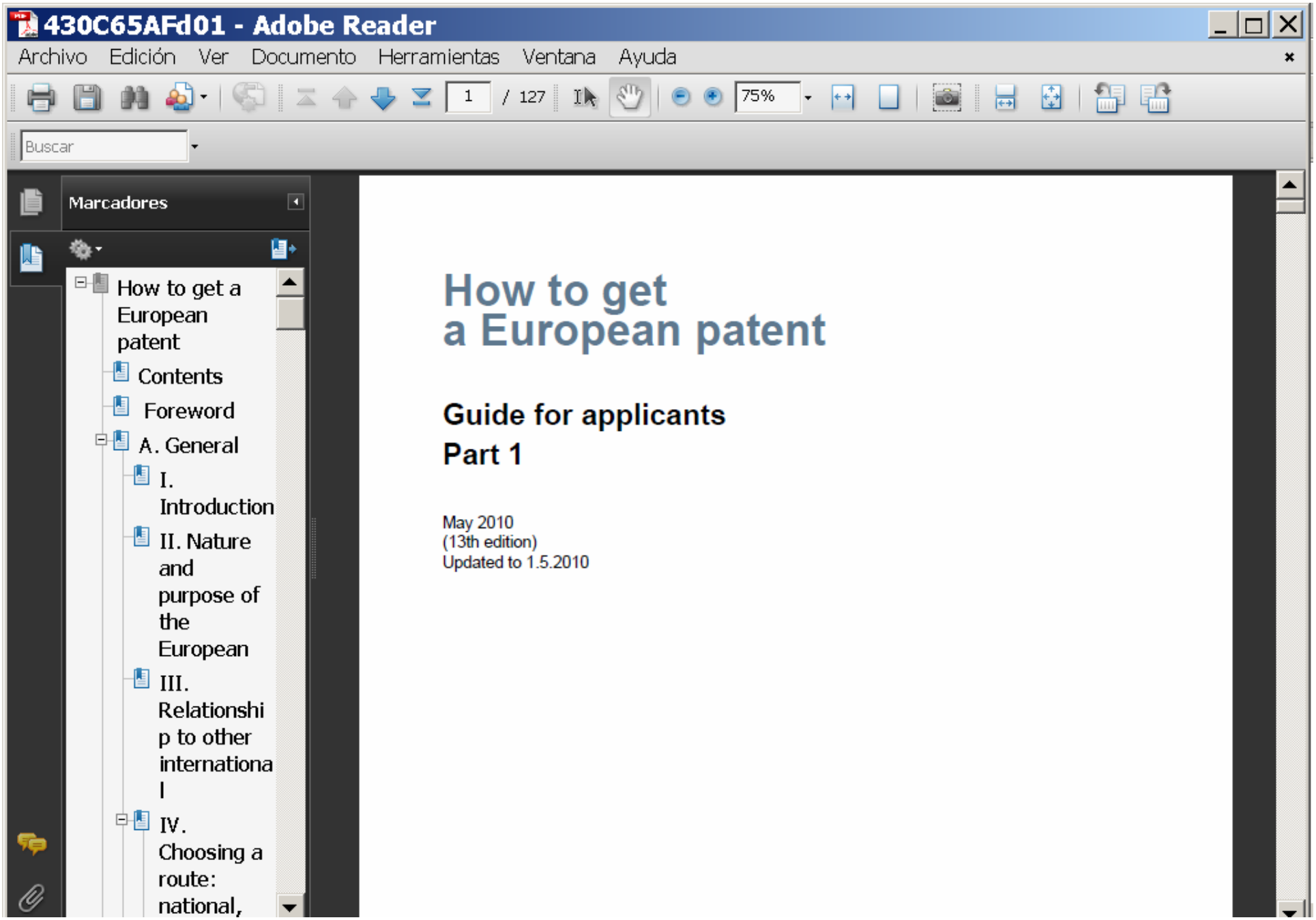
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Part 1
May 2010
(13th edition)
Updated to 1.5.2010

3 Filing and formalities examination

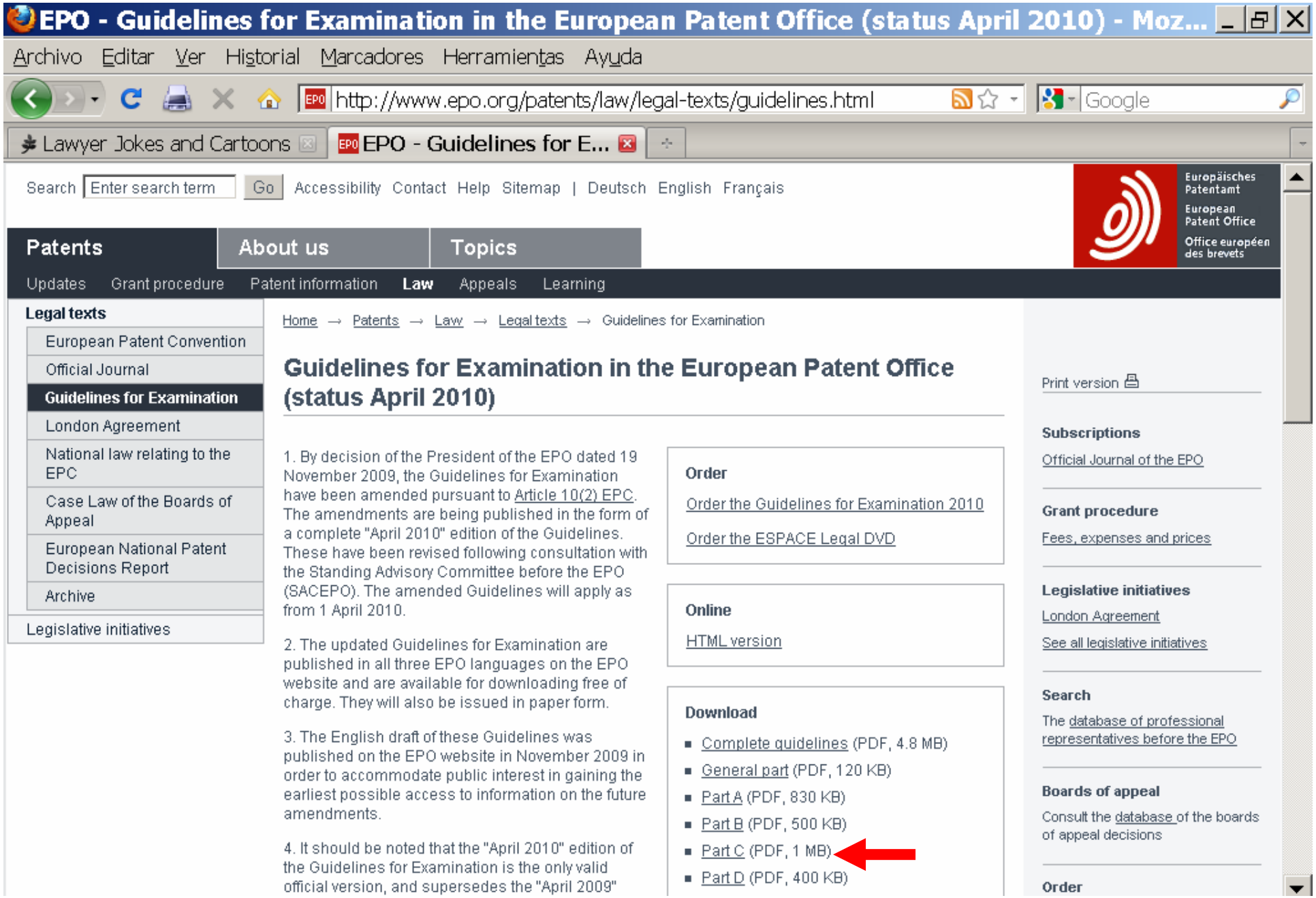
The first step in the European patent granting procedure is the examination on filing. This involves checking whether all the necessary information and documentation has been provided, so that the application can be accorded a filing date.

- Fees and expenses
- Guide for applicants - Part 1
- Guide for applicants - Part 2

4 Search

While the formalities examination is being carried out, a European search report is drawn up, listing all the documents available to the Office that may be relevant to assessing novelty and inventive step. The search report is based on the patent claims but also takes into account the description and any drawings. Immediately after it has been drawn up, the search report is sent to the applicant together with a copy of any cited documents and an initial opinion as to whether the claimed invention and the application meet the requirements of the

- Guidelines for Examination , Part B
- European Patent Convention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1. By decision of the President of the EPO dated 19 November 2009, the Guidelines for Examination have been amended pursuant to Article 10(2) EPC. The amendments are being published in the form of a complete "April 2010" edition of the Guidelines. These have been revised following consultation with the Standing Advisory Committee before the EPO (SACEPO). The amended Guidelines will apply as from 1 April 2010.
2. The updated Guidelines for Examination are published in all three EPO languages on the EPO website and are available for downloading free of charge. They will also be issued in paper form.
3. The English draft of these Guidelines was published on the EPO website in November 2009 in order to accommodate public interest in gaining the earliest possible access to information on the future amendments.
4. It should be noted that the "April 2010" edition of the Guidelines for Examination is the only valid official version, and supersedes the "April 2009"
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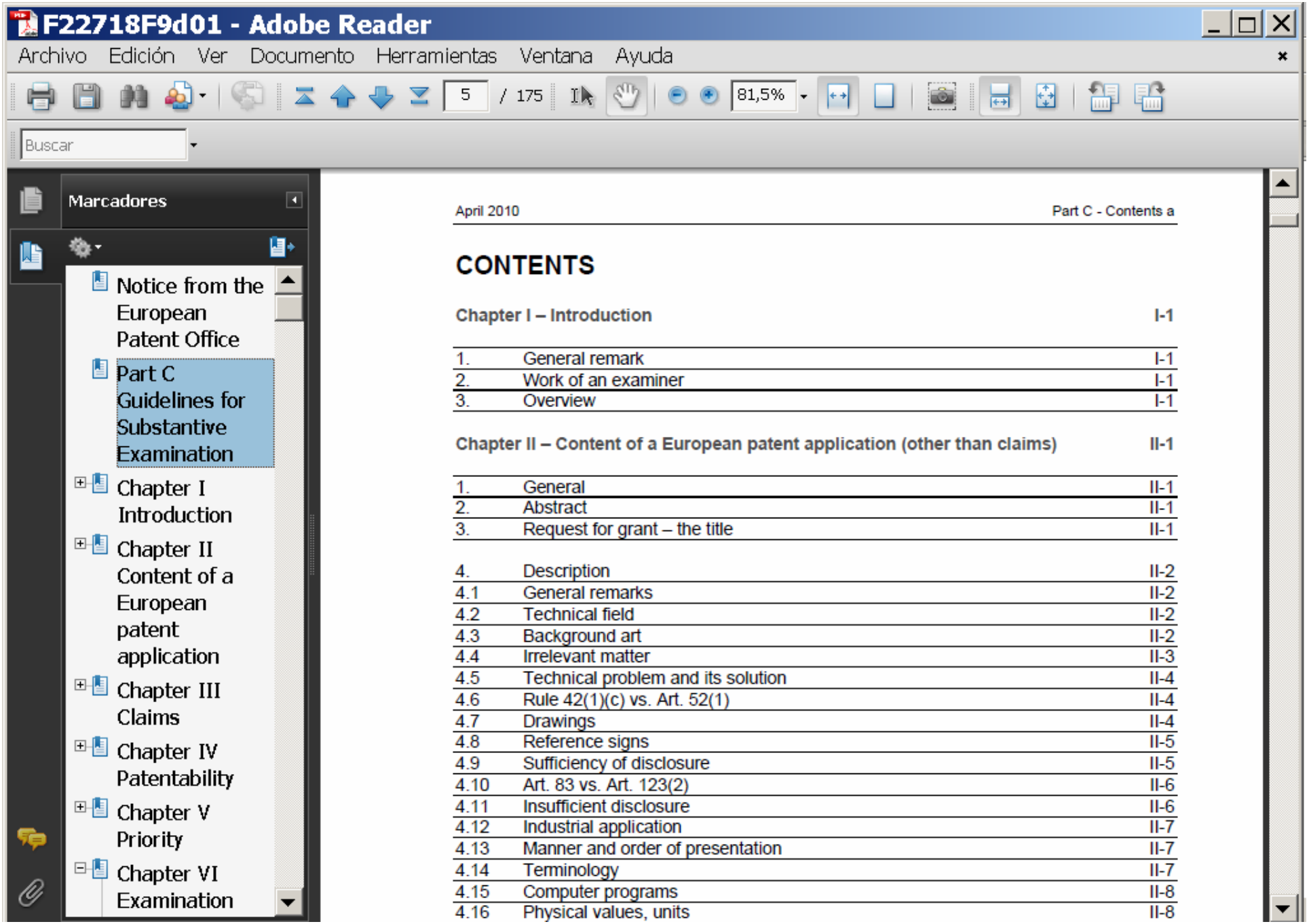
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EPO Guidelines for Examination, April 2009

"EPO Guidelines for Examination, April 2009, Part C, Chapters I-IV" is included on PDF as a general reference.
Reading this material is strongly recommended for this course.

Note: Some of the slides of this course (those in English with a number at the beginning of the paragraph) are taken from an older version of the EPO Guidelines. Their numbering may vary in respect to the current version, but their contents virtually not.

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Versión 1 (175 pp., finales de octubre 2006) Archivo PDF de 500 Kb, descargable de: www.oepm.es / invenciones / patente nacional / todo lo que necesitas saber... / el proceso de tramitación paso a paso

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DE

SOLICITUDES DE PATENTE

Módulo ampliado de Redacción

La práctica de la redacción de memorias y reivindicaciones

Fechas

Barcelona: 9-12 de marzo
Madrid: 23-26 de noviembre

A quién va dirigido

A quien tenga conocimientos sobre patentes o que haya asistido al módulo de Fundamentos. Está especialmente dirigido a técnicos que quieran realizar o controlar la redacción de solicitudes de patentes preparadas para OEPM, PCT, EPO y USPTO. Se necesitan conocimientos de inglés

Profesor

Pascual Segura
Licenciado en química por la Universidad de Valencia y doctor por la Universidad de Barcelona. Agente de la propiedad industrial de la UB y director de su Centro de Patentes. Member of the first Academic Advisory Board of the European Patent Academy, EPO. President de la secció tècnica "Patents" del Col.legi Oficial de Químics de Catalunya.

Contenido

• **Generalidades.** Obtener la mejor protección posible como objetivo. Aspectos previos a decidir. Alcance de la protección, derechos conferidos y actos prohibidos. Intentar que la posible infracción sea directa y literal (no indirecta o por equivalencia). Elementos estructurales, funcionales, intencionales y paramétricos. *Comprising vs. consisting of.* Procurar incluir reivindicaciones (reivs.) de entidad (= producto), además de reivs. de actividad (= procedimiento o método). Control de costes asociados al número de págs. y al número de reivs.

• **Metodología general para redactar reivindicaciones.** Cubrir todos los posibles actos infractores. No reivindicar lo que tenemos, sino lo que el estado de la técnica no tiene. Reivindicar la invención, no el producto. Reivindicar la invención *on the shelf* y a un nivel adecuado. Identificar el elemento nuevo. Seleccionar la categoría de la reiv. Escoger su "nombre o sujeto". Chequear su validez (¿es nueva? ¿tenemos algún argumento para justificar su actividad inventiva?

Contenido (cont.)

¿es un mero desiderátum?) Chequear su infracción (¿tiene algún elemento o palabra demasiado limitante? ¿protege lo que se fabrica o vende? ¿es autosuficiente?).

• **Metodología para redactar reivindicaciones dependientes.** Jerarquizar la importancia comercial de los elementos. Partir de una reiv. para el mejor prototipo disponible, y progresivamente eliminar-generalizar-combinar sus elementos. Diseñar estructuras de dependencias apropiadas (pirámide, cadena, cadenas-en-pirámide, selección de ramas por separado, selección de ramas simultáneamente, etc.). Dependencia múltiple para crear posiciones de retroceso.

• **Tipos especiales de reivindicaciones.** Reivs. de medio-más-función. Reivs. en-dos-partes (*Jepson*), con *characterized in that*. Casos en los que resultan apropiadas y casos en los que no. Uso obsoleto de "caracterizado por" en reivs. que realmente no son en-dos-partes, o en reivs. dependientes. Reivs. con grupos de Markush. Reivs. de productos definidos por parámetros. Reivs. *product-by-process*. Reivs. con "para" (*purpose-limited product claims*). La 1ª y 2ª indicación terapéutica como excepciones. Reivs. de *method of treatment* en US. Reivs. de uso. Reivs. de procedimiento de obtención. Reivs. de procedimiento de simple mezcla. Anticipación accidental y *disclaimers*.

• **La claridad** como principal habilidad del redactor. La aproximación *KISS (Keep It Short and Simple)*. Ser claro, sin resultar farragoso ni prolijo. A un mismo elemento designarlo siempre con un único nombre (o acrónimo) y con un único número (si procede). Trucos. **La unidad de invención** y su trascendencia económica. Directrices consensuadas PCT-EPO-USPTO. Prever las modificaciones posteriores durante el examen, para que no impliquen **adición de materia nueva.**

• **Cuestiones formales sobre presentación de solicitudes.** Partes de una solicitud de patente. Normas generales para presentar la solicitud. Elaboración de un archivo-plantilla para controlar márgenes, paginación, espaciado, numeración de líneas, tipo de letra, etc. Subtítulos y notas precautorias en el archivo-plantilla. Confección de dibujos, gráficas y fotos. Biosecuencias y el programa *Patent-In*.

La práctica de la redacción de memorias y reivindicaciones

Contenido (cont.)

• **Cuestiones prácticas sobre redacción de memorias.** Qué no puede -o no debe- incluirse en la memoria. Mantener flexible la definición de la invención. Redactar en inglés sencillo, con la terminología y simbología habituales. "Inventarse" nueva terminología si conviene. Evitar los "falsos amigos" del inglés. Usar títulos que no sean "demasiado" descriptivos. El campo de la técnica. La parte del estado de la técnica (*background art*) como educación de los potenciales lectores y preparación de argumentos de actividad inventiva, señalando limitaciones, inconvenientes o prejuicios que supera la invención. Aprovechar la bibliografía de los inventores y/o realizar nuevas búsquedas. Cómo citar documentos. Incorporar el texto de las reivs. a la explicación (*summary*) de la invención, "contando la historia" para que la pueda entender un directivo y un juez. Procurar suficiencia de descripción y soporte para todas las reivs. Mencionar ventajas reales, sin hacer afirmaciones despreciativas. Rangos (*ranges*) y fórmulas generales. *Fallback positions* según se desee permitir o impedir futuras invenciones de selección. Ejemplos y realizaciones detalladas: su distribución y su reproducibilidad. El requisito US de *best mode*. Esquema típico en electromecánica: estructura, funcionamiento, fabricación, ventajas y variantes. El resumen (*abstract*). Trucos para ahorrar espacio.

• **Cuestiones prácticas sobre inventores.** La identificación correcta de los inventores y su importancia. Inventoría vs. propiedad. Errores típicos de los inventores. Tipos de inventores. Entrevistas con el inventor de contacto: delimitar los límites de no-funcionamiento; buscar elementos equivalentes.

• **Ejemplos y ejercicios prácticos** de química, farmacia, biotecnología, electromecánica e informática, distribuidos a lo largo de toda la exposición.

El inventor es el protagonista principal de la invención. El técnico redactor de patentes es fundamental para protegerla. Y la colaboración del abogado *especializado* lo es para transferir o hacer valer sus derechos.

Títulos oficiales

ES: agente de la propiedad industrial

EP: European patent attorney

US: patent agent & patent attorney

GB: patent agent

DE: Patentanwalt

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Objetivo del curso

El curso tiene por objetivo formar candidatos españoles que quieran mejorar su práctica profesional y presentarse al *European Qualifying Examination (EQE)* para convertirse en Agentes de Patentes Europeas, esencialmente a través de casos prácticos y con la orientación del Convenio de la Patente Europea. Para información sobre el EQE, ver *www.epo.org*. Este Primer Año del curso está programado para que los candidatos puedan presentarse a la Prueba A (redacción) y a la Prueba B (modificaciones) del examen en 2011, contando con la asistencia de los tutores a lo largo de toda la preparación. Entre marzo de 2011 y enero de 2012 se ofrecerá un Segundo Año preparatorio para presentarse en 2012 a la Prueba C (oposición) y a la D (jurídica).

Curso organizado por

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MINISTERIO DE INDUSTRIA, TURISMO Y COMERCIO

Oficina Española de Patentes y Marcas

Curso práctico para preparar el *European Qualifying Examination (EQE)*

V Edición, Primer Año
Prueba A (redacción) y Prueba B (modificaciones)

Madrid y Barcelona, marzo 2010 - enero 2011

★ = del sector química-farma-biotec

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Fuente: OEPM

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Recientes cambios en el Reglamento del Convenio sobre concesión de Patentes Europeas: ¡A correr!

Anna Barlocci
Qualified European Patent Attorney y socia fundadora de ZBM Patents; coordinadora del "Curso práctico para preparar el *European Qualifying Examination*" de la OEPM y el Centre de Patents de la UB
y **Mathieu de Rooij**
Qualified European Patent Attorney de ZBM Patents; antiguo examinador de la EPO

Conflictos entre innovadores y genéricos sobre la aplicación de la normativa relativa a patentes farmacéuticas en España: Crónica de una 'guerra' con varios frentes, narrada por un observador independiente

Pascual Segura
Agente de la propiedad industrial de la UB y director de su Centro de Patentes

EN ESTA SECCIÓN LOS QUÍMICOS SIEMPRE ENCONTRARÁN ORIENTACIÓN PROFESIONAL EN EL [APASIONANTE] MUNDO DE LAS PATENTES

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