



Seminario:
IL BREVETTO UNIVERSITARIO
TRA RICERCA E MERCATO

**LA PROCEDURA BREVETTUALE
EUROPEA ED INTERNAZIONALE**

Ing. Elio Lo Conte
European Patent Office - The Hague
Lecce, ottobre 2004



Europäisches Patentamt European Patent Office Office européen des brevets

The European Patent Office



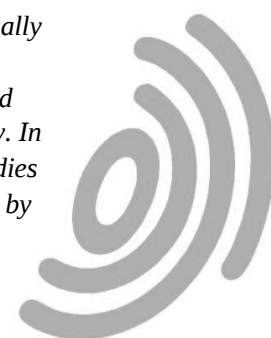

Europäisches Patentamt

Office européen des brevets

European Patent Office



The fingerprint is universally recognised as an identifying mark and symbol of individuality. In stylised form, it embodies the qualities required by the EPO.




SOMMARIO

- Il brevetto e la sua estensione all'estero
- l'Ufficio Europeo Brevetti (EPO)
 - Procedura, costi, statistiche
- La domanda di brevetto internazionale PCT
- Informazione brevettuale:
 - esp@cenet
 - epoline
- Possibilità di lavoro offerte dall'EPO
- Il futuro del brevetto europeo



**INVENZIONI :
non conoscono frontiere**



**BREVETTI :
validità
geografica
limitata**





ESTENSIONE ALL'ESTERO di un brevetto nazionale





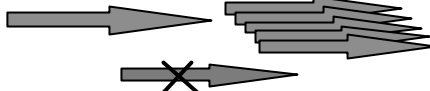
3 possibilità :

- varie domande nazionali
- domanda europea
- domanda internazionale (PCT)



La convenzione di Parigi del 1883

- Diritto di priorità
(12 mesi di tempo per le estensioni)




Procedure per l'estensione all'estero

- **Europea:**
28 paesi europei
(AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR)
- **Internazionale (PCT):**
Oltre 120 paesi aderenti al Patent Cooperation Treaty
- **Procedure nazionali**





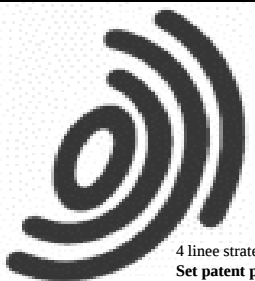

Headquarters Munich PschornHöfe

Branch at The Hague

Headquarters Munich Isar building

Vienna sub-office

Berlin sub-office



La Missione dell'UEB

*Incoraggiare
l'innovazione,
la competitività e
l'economia in Europa*

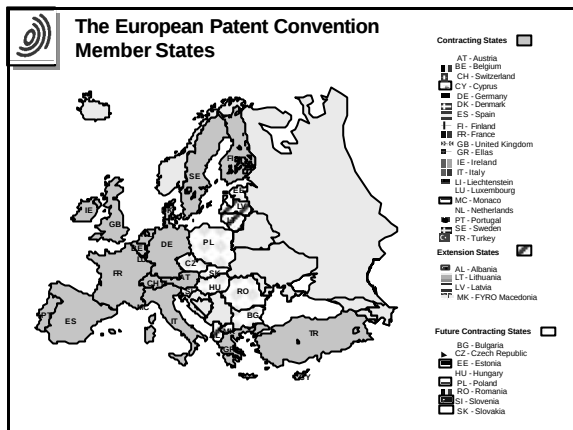
4 linee strategiche per la messa in pratica della missione:
Set patent protection standards based on user needs
Set global benchmark for best patent practice
Promote a knowledge based society in Europe
Be a model international public service organisation

Condizioni necessarie al successo:
Master the Workload
Promote sense of personal responsibility



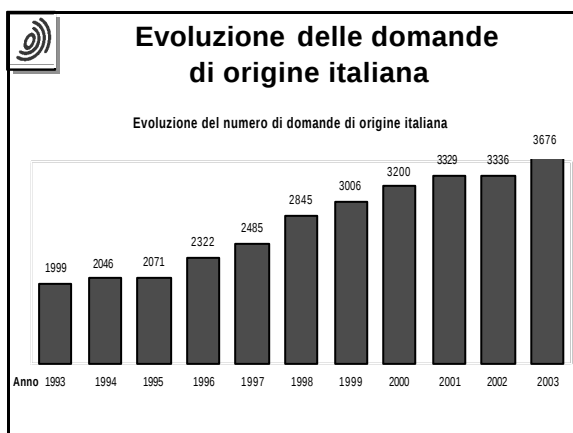
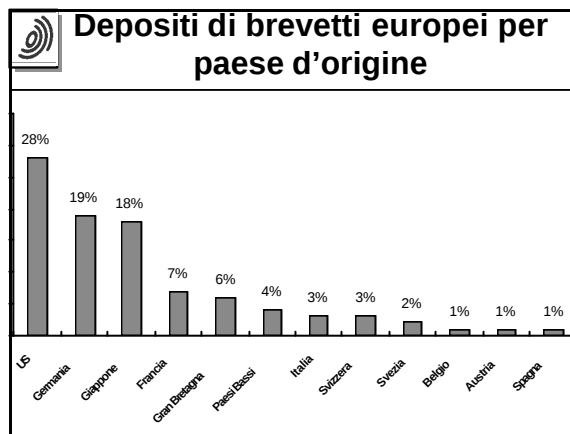
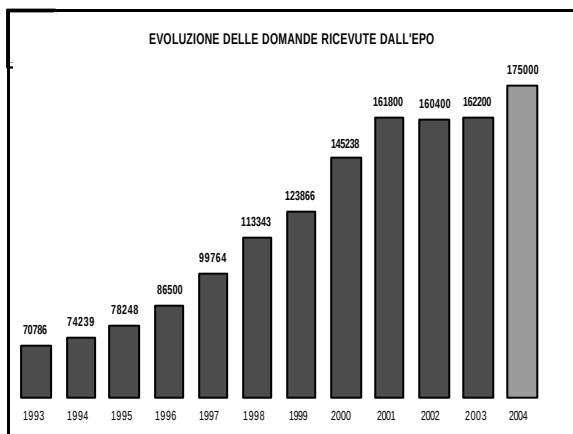

I compiti principali dell'UEB :

- centralizzare la procedura di deposito, di ricerca, di esame e di concessione dei brevetti in più paesi d'Europa.
- gestire le attività di informazione brevettuale in Europa per facilitarne l'accesso e l'uso.



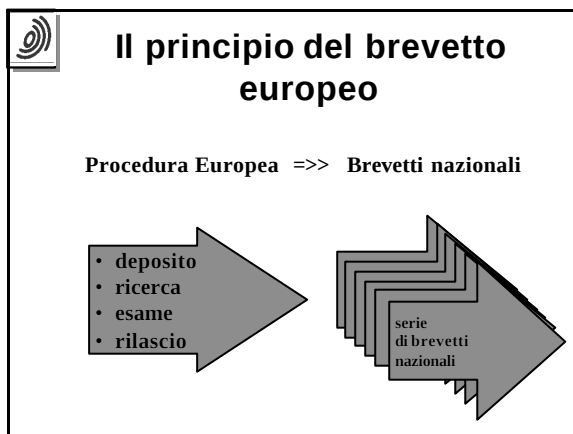
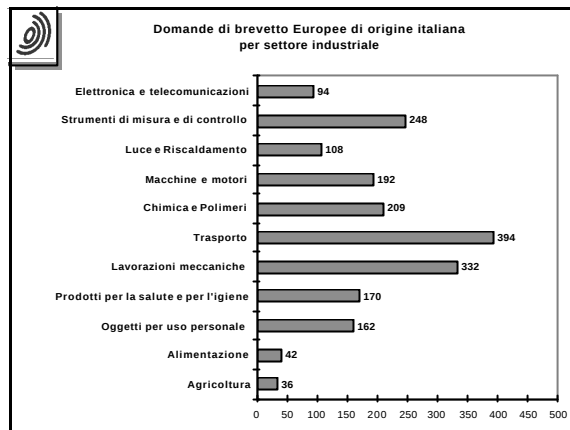
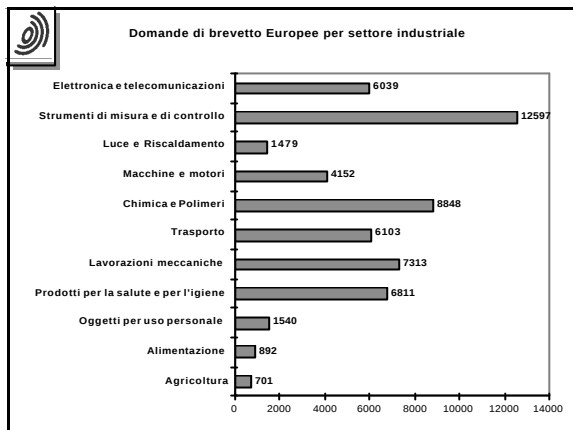
Storia

- **Nascita** : Convenzione sul Brevetto Europeo, Monaco, 1973
- **Numero di domande europee nel 2000**: circa 130 mila
- **Dalla creazione dell'EPO ad oggi** :
Oltre un milione duecentomila domande europee pubblicate
Oltre 500.000 brevetti europei rilasciati.
- **Personale** : circa 5600 funzionari prestano servizio presso le sedi di Monaco di Baviera, L'Aja, Berlino e Vienna

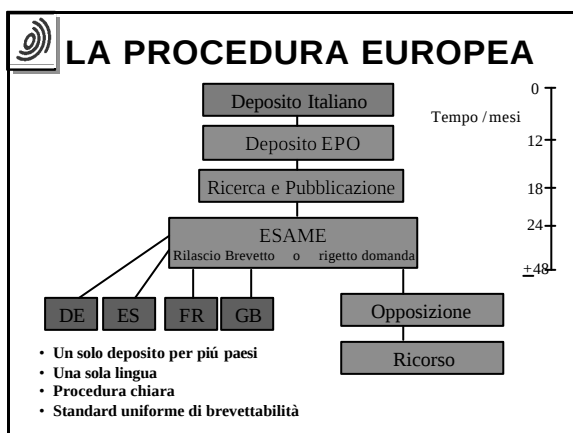


Ricerca e Brevetti in Italia

- Brevettazione in Italia
- Meno di 3% dei brevetti Europei
- Investimenti in ricerca e sviluppo
- Cultura Brevettuale
- Sistema giudiziario
- + Informazione + Investimenti



- Vantaggi del Brevetto Europeo**
- SEMPLICE
 - ECONOMICO
 - FORTE GIURIDICAMENTE



Stima costo di brevetto europeo

Base di riferimento: Domanda di brevetto europea di 20 pagine

Tasse EPO *	
• Deposito e ricerca	Euro 800 (1100 dal 2005)
• Esame e rilascio	3.500
	4.300
Onerario agente brevettuale	5.000
Convalida brevetti nazionali e traduzioni	11.000
Totale Euro	20.300

* Riduzioni in caso di domande depositate per via elettronica



La domanda internazionale o PCT

- OMPI (Ginevra)
- Procedura di deposito unica per 115 paesi
- Esame preliminare internazionale facoltativo
- Fase di rilascio non contemplata
- PCT Reform (Semplificazione della procedura, modifica Art. 22(1), 30 mesi di tempo prima di designazione e Chap. 2 non necessario per passare alla fase regionale.



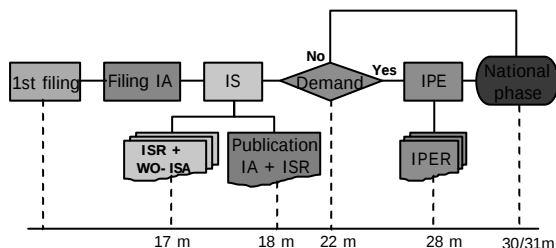
LA PROCEDURA PCT (internazionale)



- Un solo deposito per 102 paesi
- 31 mesi di tempo per decidere in quali paesi
- Rilascio rapido dei brevetti europei e nazionali



Procedura PCT in vigore per domande depositate a partire dal 1 gennaio 2004



Costi della domanda PCT

Tasse EPO	
• Deposito e ricerca	Euro 8 00 / 1.100
• Esame e rilascio	3.500
	Euro 4.300 / 4.600

Base di riferimento: Domanda di brevetto internazionale di 30 pagine

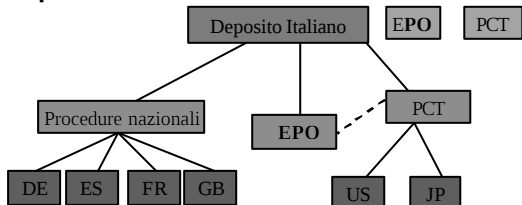
Tasse Deposito internazionale *	Euro 900
• Ricerca internazionale (con WOISA) presso l'EPO	1.550
• Esame preliminare	1.530
	Euro 3.980

Da aggiungere tasse di rilascio, spese di agenti e traduzioni

* Riduzioni in caso di domande depositate per via elettronica



STRATEGIE BREVETTUALI per l'estensione all'estero di un brevetto



Fattori da considerare:

- In quanti e quali paesi si vuole ottenere la protezione
- Semplicità e costi delle differenti procedure
- La procedura PCT permette di avere più tempo per decisioni e pagamenti
- La procedura Europea si può iniziare direttamente o dopo una domanda PCT



Il Futuro del Brevetto Europeo

- Ridurre i tempi di rilascio
- BREVETTO COMUNITARIO
 - Vantaggi
 - Problemi



Il Brevetto d'invenzione

Le 2 funzioni del brevetto:

- Protezione dell'innovazione
- Fonte di informazione



Il brevetto come fonte di informazione

- Ogni anno, solo in Europa, 30.000 miliardi di Lire sono spesi per delle ricerche già svolte da altri.
Il 30% della ricerca è un doppione !
- Il brevetto è una pubblicazione scientifica: l'80 % delle informazioni contenute nei brevetti non sono pubblicate in nessun altro documento.



L'EPO nella diffusione dell'informazione brevetti

Facilitare la consultazione delle banche dati brevettuali al fine di stimolare l'innovazione



esp@cenet

Banca dati di brevetti di tutto il mondo
(**contenente oltre 50 milioni di documenti**)
su Internet che permette ricerche gratuite e visualizzazione dei documenti completi di brevetto



<http://it.espacenet.com>
<http://ep.espacenet.com>



Ministero delle Attività Produttive

esp@cenet **Europe's Network of patent databases**

Ricerca rapida
nella banca dati mondiale esp@cenet

Solo testo
Scegli uno o più termini in inglese es: plastic bicycle

Mostra una domanda di brevetto
Scegli il numero es: EP234567

Nome della ditta
Scegli il nome es: pastore institut

Domande di brevetto nella loro lingua originale da

- Italia
- altri paesi europei
- L'ufficio europeo dei brevetti
- L'Organizzazione mondiale della proprietà intellettuale (PCT)

Domande di brevetto, con un riassunto e titolo in inglese da

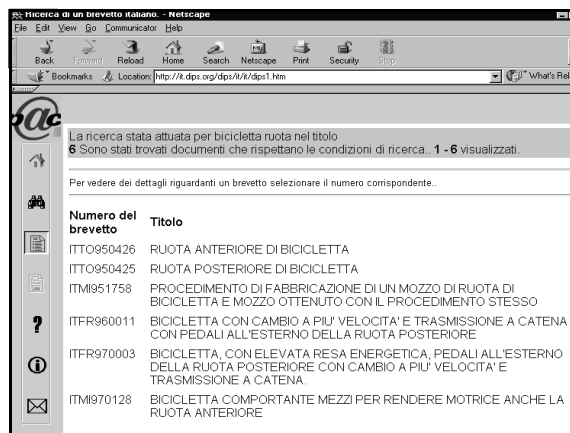
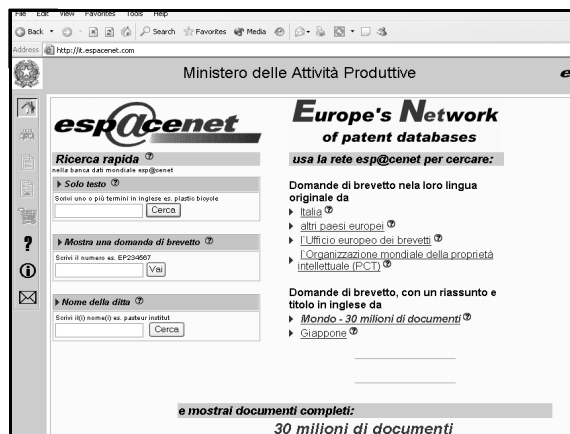
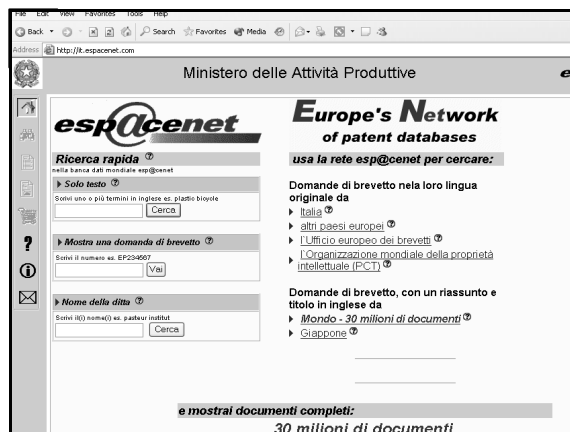
- Mondo - 30 milioni di documenti
- Giappone

e mostrai documenti completi:
30 milioni di documenti

esp@cenet - Search Patent in Worldwide database EP0000 - Netscape

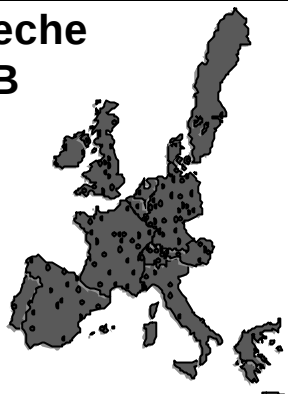
La ricerca stata attuata per (mobile AND telephone AND internet)<TITLE OR ABS>
13 Sono stati trovati documenti che rispettano le condizioni di ricerca.

Numero del brevetto	Titolo
WO9859506	IMPROVEMENTS IN OR RELATING TO INFORMATION DISTRIBUTION
EP0889660	Wireless information processing terminal and controlling method thereof
WO9852342	METHOD AND APPARATUS FOR SELECTIVE CALL FORWARDING
EP0877532	A system and a method for transferring a call and a mobile station
US5793762	System and method for providing packet data and voice services to mobile subscribers
WO9834203	METHOD AND APPARATUS FOR PERFORMING FINANCIAL TRANSACTIONS USING A MOBILE COMMUNICATION UNIT
EP0849925	Enhanced message centre
EP0847176	User invocation of services in public switched telephone network via parallel data networks
WO9812883	GLOBAL TWO-WAY PAGING USING THE INTERNET
WO9810307	LOCATION OF A MOBILE STATION
US5726984	Hierarchical data collection network supporting packetized voice communications among wireless terminals and telephones
WO9803005	METHOD IN TELECOMMUNICATION OPERATING SERVICE
WO9745814	REAL TIME SYSTEM AND METHOD FOR REMOTE PURCHASE



 **Le biblioteche
PATLIB**

Rete di oltre
120 biblioteche
brevettuali e
centri di
informazioni
sui brevetti in
Europa



 **Centri di informazioni brevetti
PATLIB in Italia**

In questo momento ci sono in Italia 55
biblioteche brevettuali presso Università o
Camere di Commercio:

Roma (presso l'Ufficio Italiano Brevetti),
Bologna, Cosenza, Firenze, Genova,
Lecce, Milano, Napoli, Pescara, Torino

La lista aggiornata (con gli indirizzi) di
questi centri si trova a:

<http://patlib.european-patent-office.org/directory/overview.pl>

<http://siba2.unile.it/patlib/itpatlib.htm>



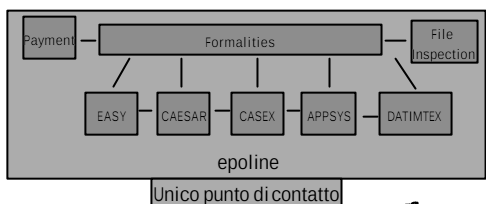
Centri aperti da 1998
Centri aperti da 1999
Centri in fase di apertura 2000 & 2001

PATLIB CENTRES IN ITALY

 **epoline®**

- Gestisce in modo elettronico e sicuro i contatti con l'Ufficio Europeo Brevetti e con gli uffici nazionali
- Gestisce le transazioni finanziarie
- Semplifica le procedure
- Diminuisce il lavoro amministrativo per i richiedenti e per i consulenti

 **epoline®**



Richiedente

 **www.epoline.org**

Con il progetto *epoline* l'EPO desidera migliorare la sua efficienza ed i servizi ai suoi clienti via Internet in un ambiente sicuro ed integrato. I principali prodotti di *epoline* oggi sono:

- Deposito di una domanda via Internet - **ONLINE FILING**
- Ispezionare un dossier d'esame - **ONLINE PUBLIC FILE INSPECTION**
- Consultare il registro domande ep - **ONLINE EUROPEAN PATENT REGISTER**
- Ricevere il Rapporto di ricerca - **SEARCH REPORT DISPATCH**
- Effettuare i pagamenti delle tasse procedurali - **FEE PAYMENTS**
- Inoltare i documenti di priorità. - **EXCHANGE OF PRIORITY DOCUMENTS**

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- Mailbox
- Online Fee Payment

Online Filing

- Payable

Online European Patent Register

- WebRegPro

Online Public File Inspection

epoline® Forum

Video epoline® products and services

epoline.3 aims to improve both the efficiency of the European Patent Office (EPO) and its service to the intellectual property community by providing a **secure and integrated** environment for electronic communication between the EPO and the applicants, their representatives and the national patent offices of the European Patent Convention (EPC) contracting states.

The following **epoline.3** products and services are currently being given priority:

- European Online Filing
- European Online Public File Inspection
- Online European Patent Register
- Search Report Dispatch
- Fee Payments and Management of Deposit Accounts
- Electronic Exchange of Priority Documents

epoline® will provide the following benefits to applicants, representatives and the interested public alike:

- instant feedback and confirmation
- more rapid delivery of search and examination results
- immediate access to status information, anytime, anywhere
- decrease in clerical work
- reduction in paper handling costs (e.g. postage, archiving, etc)
- increase in public visibility of the patenting process
- transparency of procedure



Vantaggi di *epoline*

epoline® fornisce i seguenti vantaggi agli inventori, ai ricercatori, ai consulenti ed al pubblico in generale:

- Conferma di ricezione immediata da parte dell'EPO
- Ricevimento rapido del rapporto di ricerca e delle comunicazioni d'esame
- Accesso continuo alle informazioni sullo stato del dossier
- Diminuzione del lavoro amministrativo
- Riduzione dei costi postali
- Trasparenza della procedura



IPC = CIB

Classificazione Internazionale Brevetti

- Classificazione sistematica dei documenti brevettuali
- Accesso ai documenti
 - definizione dello stato dell'arte in un determinato dominio della tecnica
 - ricerche di anteriorità
 - valutazione dell'attività inventiva



Storia

1791 Titoli dei brevetti in ordine alfabetico (Francia)

1872 Classificazione USA
(Classe = determinato soggetto)

1949-67 Discussioni sullo sviluppo di una
Classificazione Europea

1971 Accordo di Strasburgo sulla Classificazione
Internazionale di Brevetti (CIB-IPC)

1977 Sistema di Classificazione Europea (ECLA)

2000 Progetto Harmony – Unica Classificazione EPO-USPTO -JPO



Aggiornamenti

- Revisione periodica (EPO + Uffici Nazionali) sotto la supervisione di OMPI
 - Introduzione delle nuove tecnologie
 - eliminazione di sovrapposizioni, errori ed inconsistenze
 - miglioramento delle sotto-divisioni
 - Nuova edizione ogni 5 anni
 - IPC7 in vigore da 01.01.2000
 - IPC1. Settembre 1968 - Giugno 1974
 - IPC2. Luglio 1974 - Dicembre 1979
 - IPC3. January 1, 1980 - Dicembre 1984
 - IPC4. January 1, 1985 - Dicembre 1989
 - IPC5. January 1, 1990 - Dicembre 1994
 - IPC6. January 1, 1995 - Dicembre 1999



Disponibilità Internet

Testo completo ufficiale in inglese e francese

- <http://www.wipo.org/classifications/en/ipc/>
- <http://www.wipo.int/classifications/fr/ipc/>

Catchword index (inglese)-indice alfabetico

- http://www.wipo.org/classifications/fulltext/new_ipc/ipc7/ecw.htm

Versione in tedesco del DPA

- <http://www.depatistnet.de/ipc/index.html>

Versione commerciale in 5 lingue (gratuita fino a gruppi principali)

- <http://www.dagostini.it/patclass/patclass>

Testo completo ECLA

- <http://l2.espacenet.com/espacenet/ecla/index/index.htm>

Guida in inglese e francese

- http://www.wipo.int/classifications/fulltext/new_ipc/guideeng.htm
- http://www.wipo.org/classifications/fulltext/new_ipc/guidefre.htm



Disponibilità

- Forma stampata
 - 8 sezioni (A-H) (vol. 1-8)
 - 1 indice (vol. 9)
 - 1 guida (vol. 10)
- Lingue
 - Inglese e Francese (lingue OMPI)
 - Arabo ... Russo ... Serbo-croato ... Tedesco
(Traduzione DPA – Carl Heymanns Verlag KG)
 - Italiano: non ancora disponibile
- CATCHWORD INDEX (inglese e francese)
- Stich- und Schlagwörterverzeichnis zur IPK
- CD ROM con guida "IPC:Class"
- INTERNET



Struttura

- **8 Sezioni** **es: A**
(Sottosezioni)
 - **120 Classi** **es: A47**
 - **628 Sottoclassi** **es: A47B**
 - **69000 Gruppi** **es: A47B13/00**
(gruppi principali, 10%, e sottogruppi)



Sezioni

Simbolo: Una lettera maiuscola (A-H)
Indicazione generale del contenuto

- | | |
|---|---|
| A | Human Necessities |
| B | Performing Operations; Transporting |
| C | Chemistry; Metallurgy |
| D | Textiles; Paper |
| E | Fixed Constructions |
| F | Mechanical Engineering; Lighting;
Heating; Weapons; Blasting |
| G | Physics |
| H | Electricity |



ECLA (EC or CEB)

- IPC classification
+ extra EPO internal subdivisions
Formato: gruppo IPC seguito da lettera (e numeri)
A47B17/00B • [N: made of metal]
- **Stessa struttura dell'IPC**
Stesse sezioni, classi e gruppi principali dell'IPC
Sistema più dinamico
 - **Available in esp@cenet**
<http://l2.espacenet.com/espacenet/ecla/index/index.htm>
 - **Notes (N:.....) in IPC and ECLA groups**



Brevetti su Internet

- **La pagina dell'EPO**
<http://www.european-patent-office.org>
 - La CONVENZIONE SUL BREVETTO EUROPEO
 - Le tasse procedurali
 - I moduli di deposito di una domanda di brevetto
 - La lista delle biblioteche brevettuali in Italia
- **L'Ufficio Italiano Brevetti e Marchi**
- **Ordine dei consulenti in proprietà industriale**
- **CLASSIFICAZIONE INTERNAZIONALE DEI BREVETTI**
- **La mailing list "Brevetti"**
- **Sito informativo www.info-brevetti.org**



L'EPO assume:

*Giovani ingegneri o laureati in
discipline scientifiche
con conoscenza di inglese,
francese e tedesco*



Working at the forefront of technology in an international environment !

The EPO, a self-financing intergovernmental organization which grants patents throughout Europe and employs nearly 4000 highly qualified staff, is now looking for

ENGINEERS

in Munich and The Hague to carry out search and examination of patent applications in different technical fields including: telecommunications, electronics, chemistry and mechanical engineering

The requirements are:

- a university degree in the relevant field
- knowledge of English, French and German
- nationality of one of the contracting states





Mandare CV
o richiedere modulo per assunzione a :

**EPO - Recruitment off. - Postbus 5818 -
NL - 2280 HV - Rijswijk**

fax: 0031 70 3403773
e-mail : recruitment.thehague@epo.org
www.european-patent-office.org/epo/jobs.htm



**find out
about
tomorrow's
technology**



What is esp@cenet ?

- Internet based service
 - accessible worldwide
- Basic patent information
 - aimed at non patent professionals
- Free of charge



What are its aims ?

- Provide access to patent info.
 - additional dissemination channel
- Promote patent awareness
 - raising profile of patent offices
- Stimulate innovation in SME's



What information is available ?

- 30+ yr. "Worldwide patents applications" (the full EPO collection)
- 2+yr. of National, EP and WO publications
 - coming from EPO member states
 - available on day of publication
- 20 yr of Abstracts of Japanese patents



What can be searched ?

- Publication number and date
- Application number and date
- Priority number and date
- Applicant name
- Inventor name
- IPC Class – ECLA Class
- Text
 - Level I - National Language titles
 - Level II - English titles and abstracts



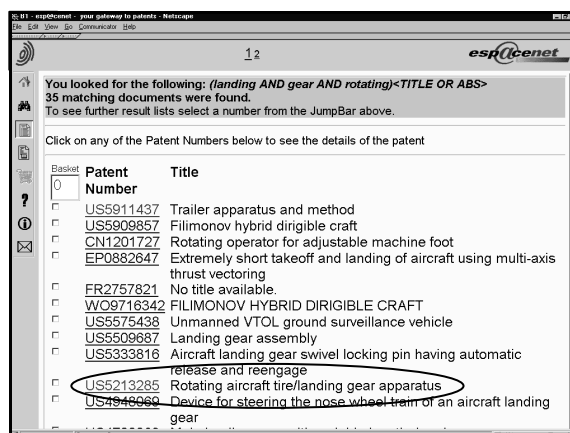
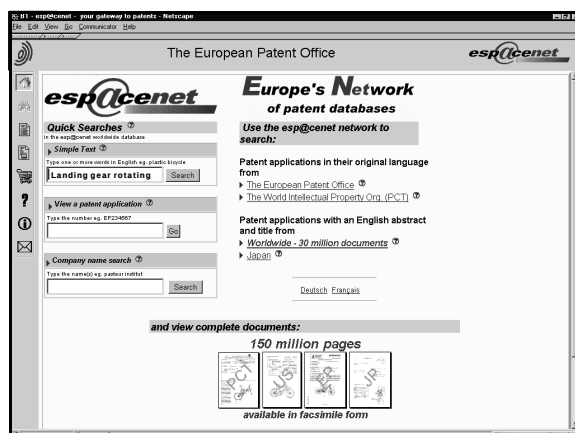
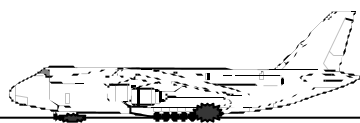
What is displayed ?

- **Result list** - Document numbers and titles
- **Bibliographic** - All searchable elements
- **Full Text**
- **Images**



Conclusions

- **Simple access**
 - to technical information in patents
- **For a large public**
 - inventors, students, researchers
- **Offering a unique collection**
 - over 300 million pages
- **Furthering innovation**
 - aiding development of European industry



US5213285

Rotating aircraft tire/landing gear apparatus

Patent Number: US5213285
 Publication date: 1993-05-25
 Inventor(s): STANKO JOHN J (US)
 Applicant(s): STANKO JOHN J (US)
 Requested Patent: ☐ US5213285
 Application Number: US19920867154 19920410
 Priority Number(s): US19920867154 19920410
 IPC Classification: **B64C25/40**
 EC Classification: B64C25/40
 Equivalents:

B64C25/40
International Patent Classification symbol
Used worldwide
70 000 subdivisions

Abstract

An aircraft tire and an associated landing gear apparatus which rotate a wheel of a landing aircraft prior to contact between the wheel and a runway. The tire possesses an array of projections which have a forward face for catching air and which are molded into the tire in at least one channel circling the tire tread on at least one sidewall of the tire. The tire preferably possesses one or more belts underneath those projections situated in channels to protect the integrity of the tire's shape. A landing gear apparatus which may be used in conjunction with the aircraft tire comprises a duct mounted adjacent to the tire which receives air, reroutes it, and releases it into at least some of the forward faces of the projections so as to effect a further forward rotational force on the tire and wheel.

Data supplied from the esp@cenet database - I2

European Patent Classification

View Section: View class: eg.B60R21/12

Index A B C D E F G H

View without comments View complete text

Previous page: B64C23/00

B6 PERFORMING OPERATIONS; TRANSPORTING

B64 AIRCRAFT; AVIATION; COSMONAUTICS

B64C AEROPLANES; HELICOPTERS (air-cushion vehicles B60V)

B64C25/00 Alighting gear (air-cushion alighting gear B60V3/08)

B64C25/32 • characterised by the ground or like engaging elements (arrester hooks B64C25/68)

B64C25/40 • the elements being rotated before touch-down

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Applicant eg. Motorola

Inventor eg. Smith

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☐	LU67257	No title available.
☐	EP0492686	System to induce wheel rotation in aircraft.
☐	DE29611841U	No title available.

EP0492686

System to induce wheel rotation in aircraft.

Patent Number: EP0492686
 Publication date: 1992-07-01
 Inventor(s): ADILETTA GIOVANNI (IT)
 Applicant(s): ADILETTA GIOVANNI (IT)
 Requested Patent: ☐ EP0492686
 Application Number: EP19910203118 19911128
 Priority Number(s): IT19900022508 19901221
 IPC Classification: B64C25/40
 EC Classification: B64C25/40
 Equivalents: ☐ IT1246727

Abstract

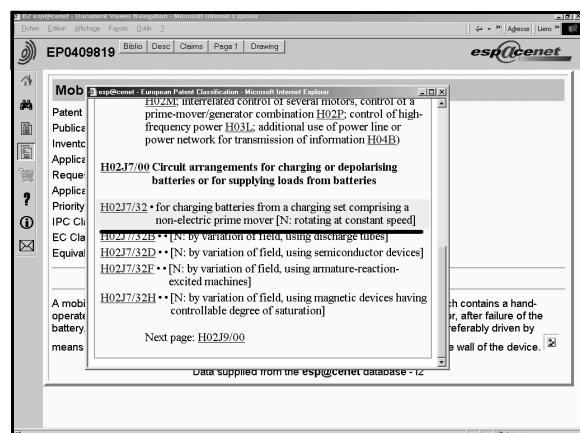
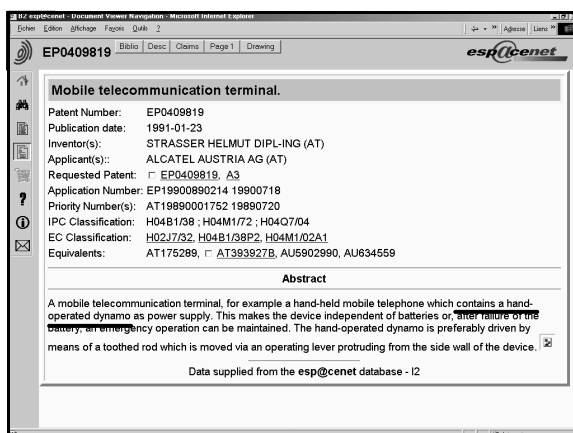
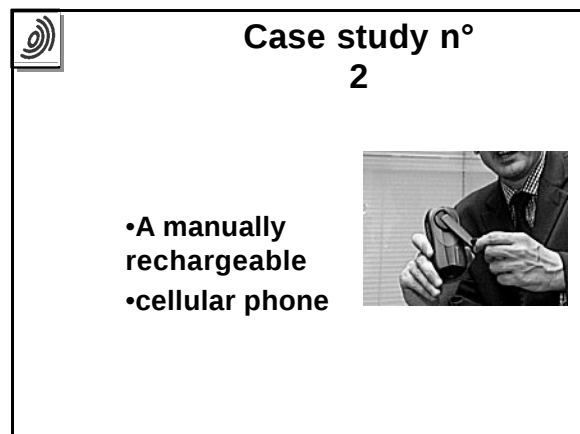
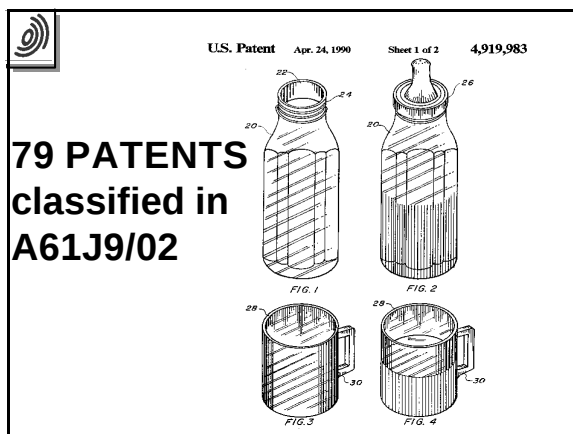
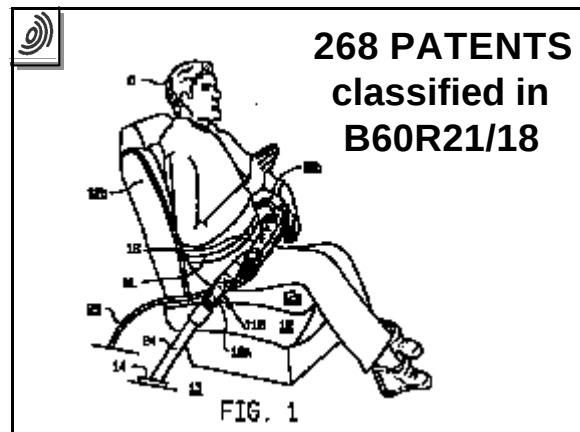
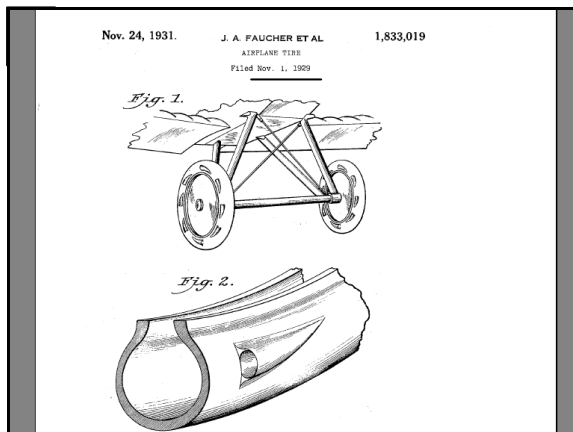
Described is a device for obtaining the rotation of the wheels (2) mounted on the landing gear (4) of aircraft with the object of limiting the transient stage during the phase of first contact with the ground, constituted by a radial blading (1) applied on the external side surface of the wheel hub.

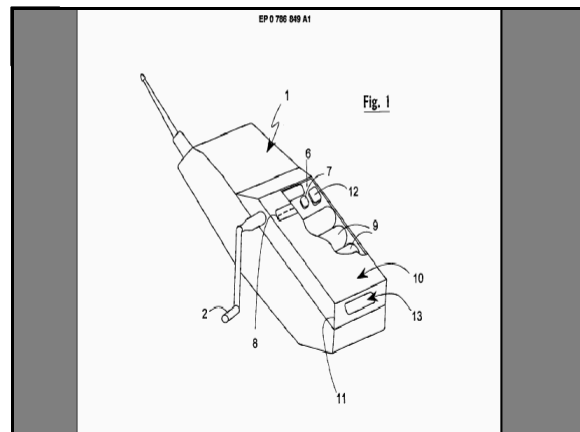
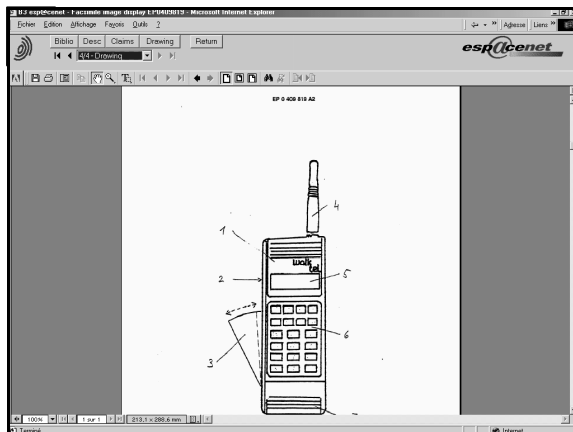
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EP0492686

System to induce wheel rotation in aircraft.

Fig. 1







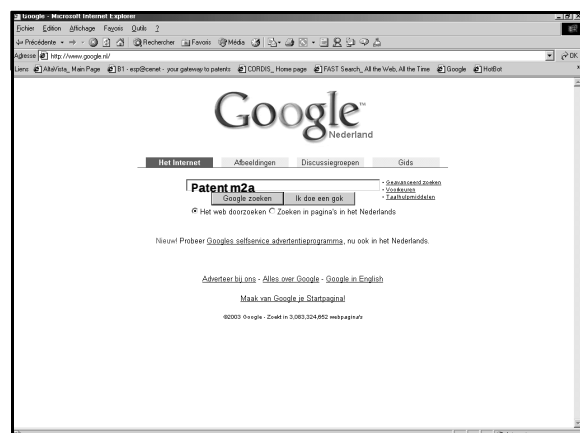
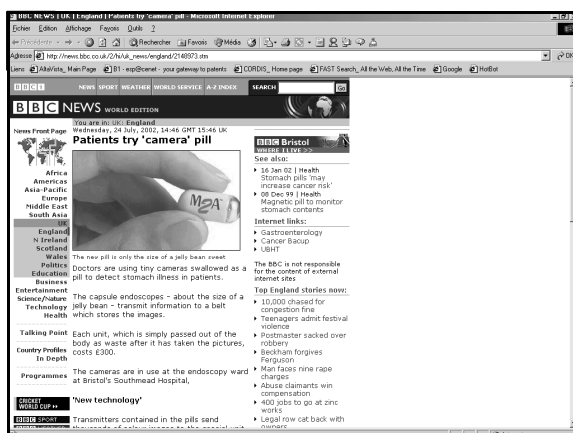
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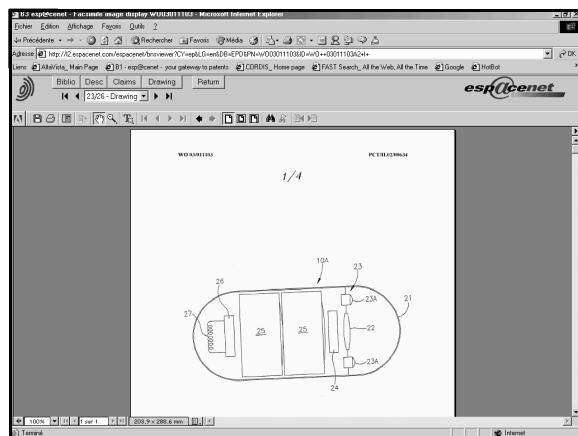
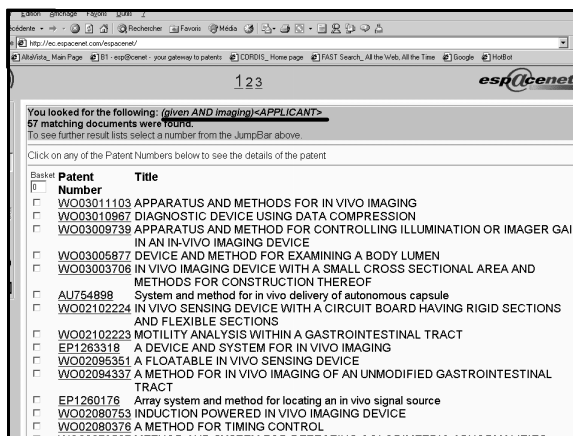
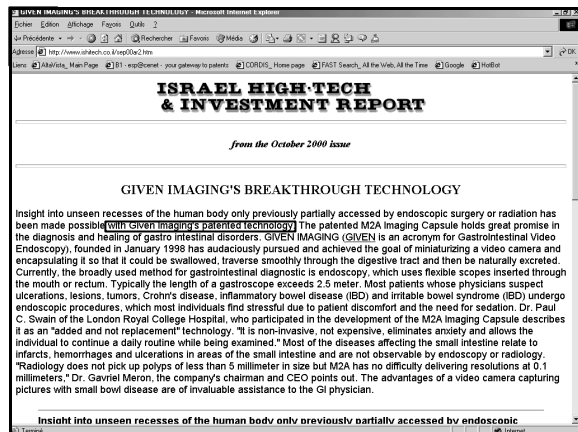
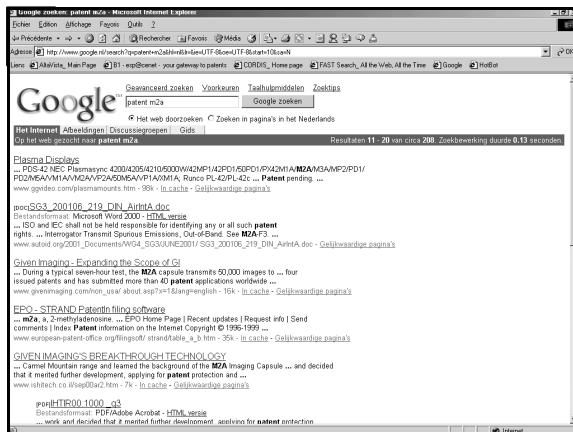
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Elio Lo Conte
October 2004



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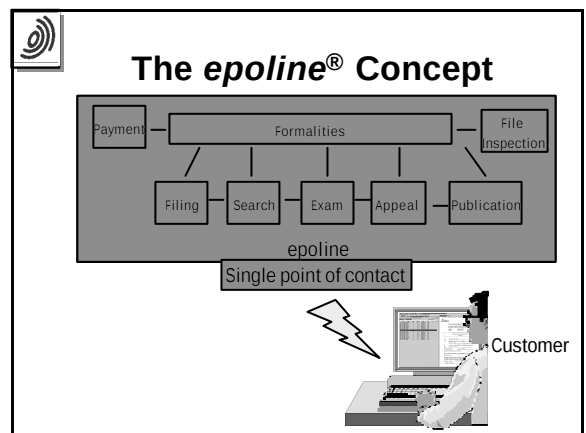
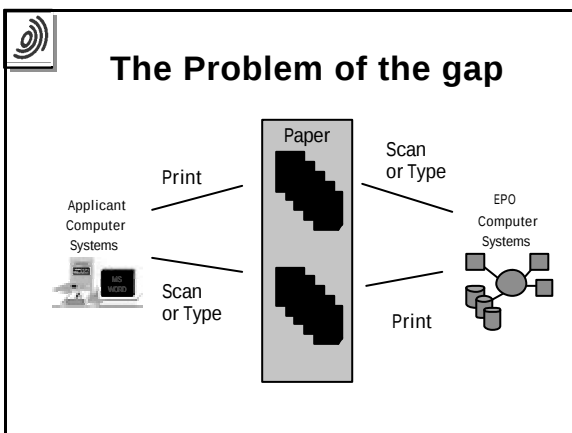
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- Initial discussions September 1998
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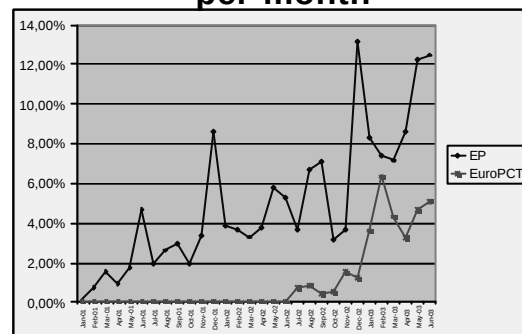


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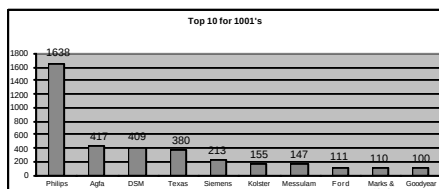
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 Date of entry

Publication numbers, publication type and publication dates
 EP1113840 A1 10-02-2000 [2001/28]
 WO0006248 10-02-2000 [2001/28]

Application numbers and filing date
 Date of filing EP1999035891 (99935891.4)
 23-07-1999 [2001/28]
 WO1999US16793

Date of publication of search report
 Date of international search report 10-02-2000
 International Searching Authority US

Priority number, priority date
 US19980094266P 27-07-1998
 US19980100402P 16-09-1998 [2001/28]

Classification (IPC) and bulletin number
 A61N1/08 [2001/28]

Designated states
 AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, FI, CY [2001/28]

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Designated states, applicant name, address
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 15264 NEO Parkway
 Garfield Heights, OH 44128US
 FOR ALL DESIGNATED STATES
 UNIVERSITE CATHOLIQUE DE LOUVAIN
 1, Place de l'Université
 1348 Louvain la NeuveBE [2002/11]

Inventor name, address
 see applicant [2001/28]

Representative name, address
 Bird, Ariane, et al
 Bird Goen & Co, Klein Dalemstraat 42A
 3020 WillebrodeBE [2001/28]

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Procedure language
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2001-08-06	Communication of transfer of rights	2
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2001-07-19	Requests for assignment	1
2001-07-19	Requests for assignment	1
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2001-05-07	Document concerning fees and payments	1
2001-05-04	Document concerning fees and payments	1
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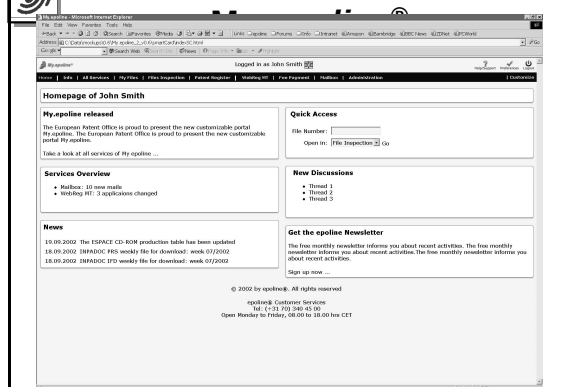


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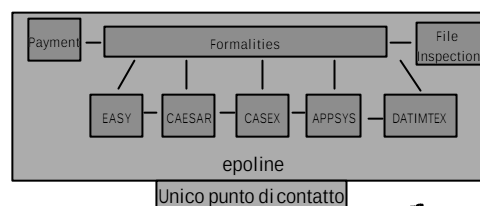
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