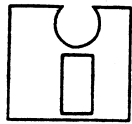


WIPO-IFIA/SEL/02/17
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DATE:December2002



INTERNATIONALFEDERATIONOF
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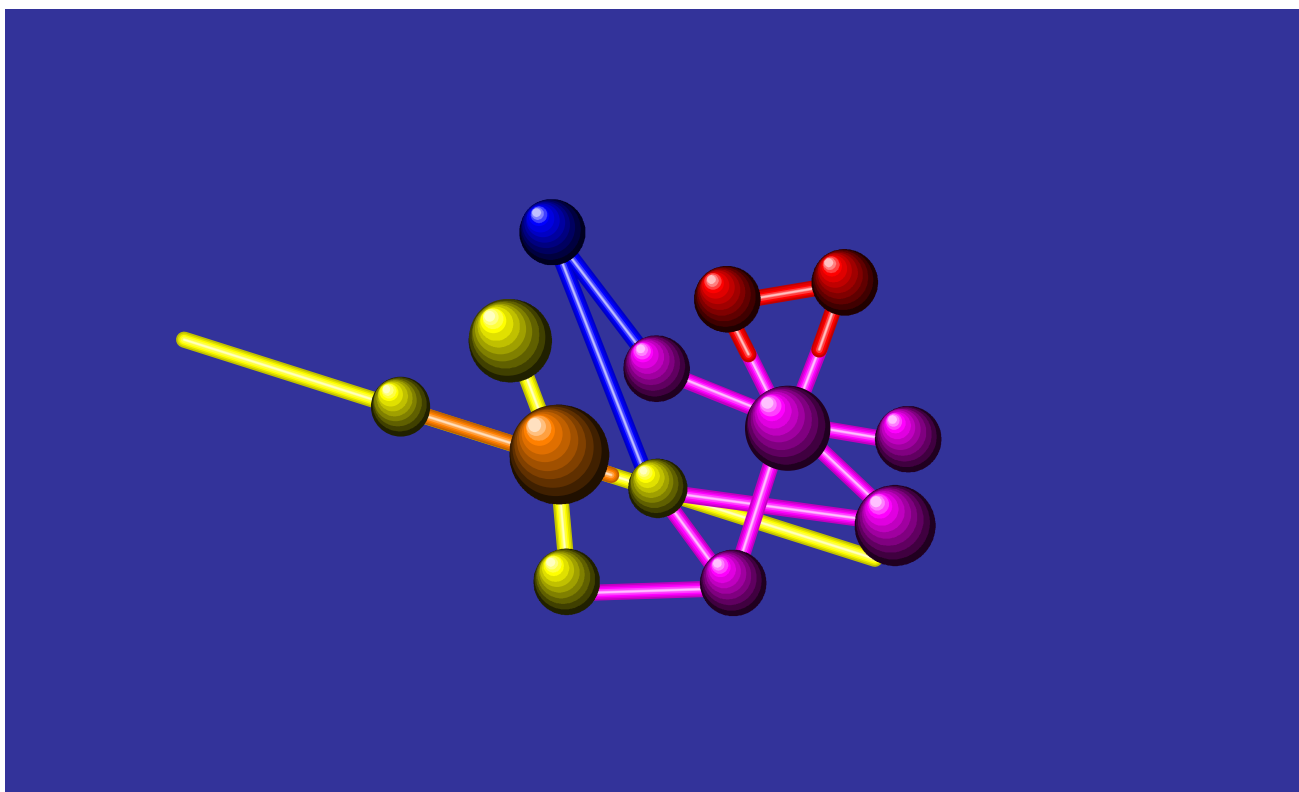
in cooperation with
the Korean Intellectual Property Office (KIPO)

and
the Korea Invention Promotion Association (KIPA)

Seoul, December 4 to 7, 2002

TECHNOLOGY TRANSFER THROUGH ONLINE SERVICES AND DATABASES

*Document prepared by Mr. Jason Ng, Assistant Director, Enterprise Development
Department, Intellectual Property Office of Singapore (IPOS), Singapore*





Definitions



Intellectual Property

Intellectual Property (IP)

- creations of the mind used for commerce
- *Not limited to any industry or technology*

Industrial property:
patents, trademarks,
industrial designs and
geographic indications.

Copyright: literary and artistic
works (novels, poems, plays,
films, musical works, paintings,
photographs and architectural
designs)

Intellectual Property

- Creations of the human mind
- About ideas, innovations, inventions, trademarks, trade names, logos, copyrights, know-how, trade secrets, etc.
- Technology in which there exists a protectable, legal property right

...LES definition



Technology Transfer

- Applying Technical Information to a specific task
- Initiating Cooperative Research
- Conceiving a Joint Venture
- Establishing a Partnership
- Providing Access to Intellectual Property
- Supplying Training & Education
- Facilitating a Licensing Opportunity

Commercialization



- Commercialization: The act or process of exploiting or taking technology to market for financial gain
- Commercialization Cycle: The steps in the process of taking a technology to market for profit

Sources of IP Information

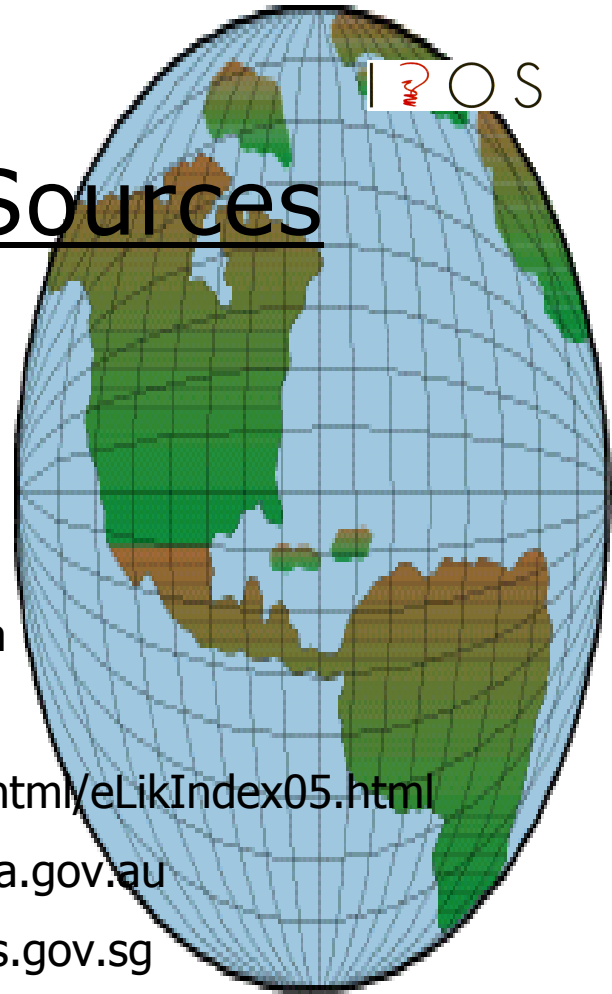
- National Intellectual Property Offices
 - Online databases
 - Libraries
 - Published documents
- Private Information Providers
 - Patent Information Content Providers
 - Patent agents / attorneys



IP Information Sources

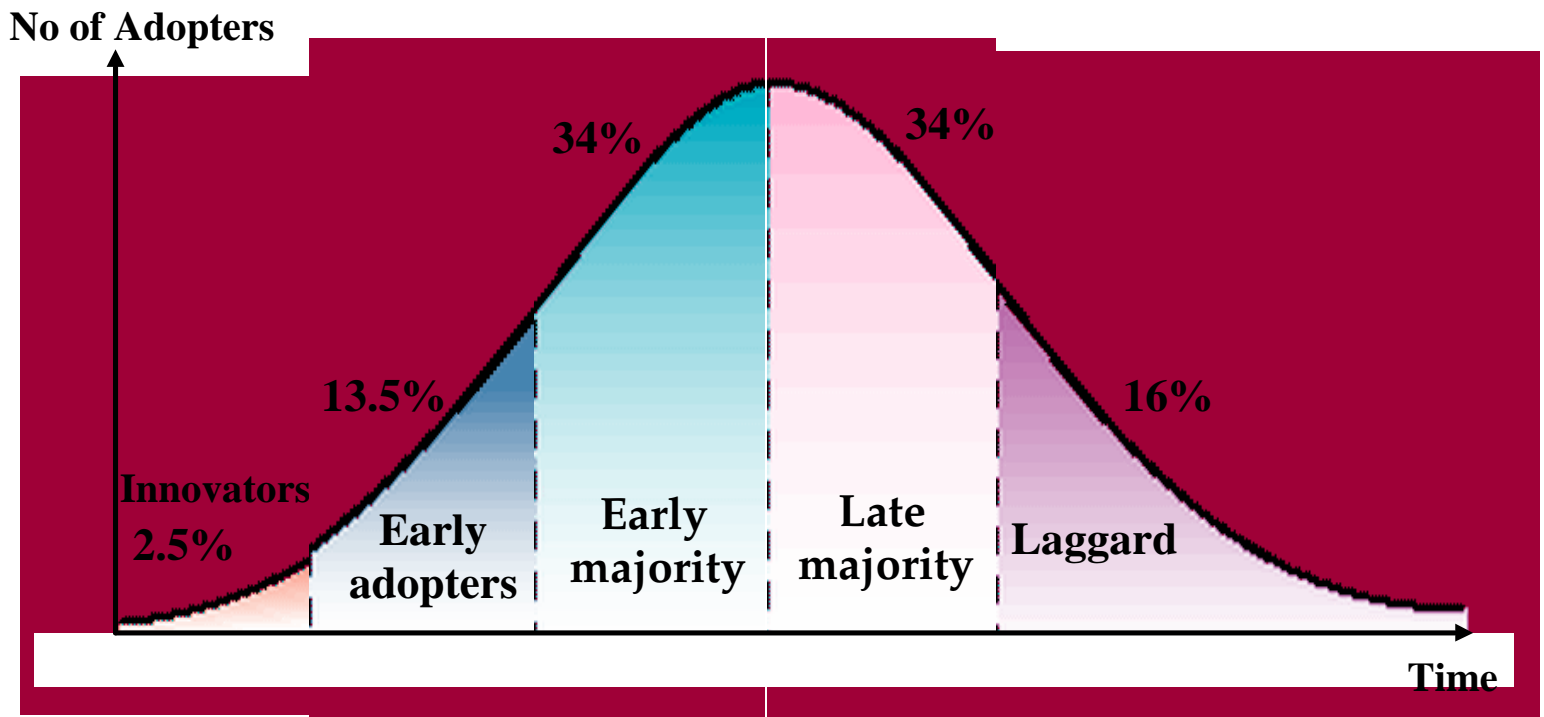
- Patent Office Databases

- WIPO - <http://ipdl.wipo.int/>
- EPO - <http://ep.espacenet.com/>
- USPTO - <http://www.uspto.gov/>
- Canada - <http://patents1.ic.gc.ca>
- JPO - <http://ipdl.jpo.go.jp/>
- Korea - <http://www.kipo.go.kr/ehhtml/eLikIndex05.html>
- Australia - <http://www.ipaustralia.gov.au>
- Singapore - <http://www.epatents.gov.sg>
- United Kingdom- <http://www.patent.gov.uk>
- China- <http://www.cpo.cn.net>
- German- <http://www.deutsches-patentamt.de/>



Understanding the Market

Technology Adoption Life Cycle



Technology Adoption Life Cycle

⇒ Segmentation based on characteristic responses to discontinuous innovations.

- ◆ *Risk tolerance*
- ◆ *Willingness to change*

⇒ Market segments

Technology Adoption Life Cycle

Innovators

- Trend Setter
- Non-typical customer
- High tolerance for glitches & problems
- High risk taker
- Respond to information from technology conferences, computer bulletin boards, retail storefronts that cater to techies, and technical publications



Technology Enthusiasts

2.5%

Technology Adoption Life Cycle

Early Adopter

- Creative Thinkers
- Easy to sell - hard to please
- Moderate risk taker
- To provide competitive edge in the form of major breakthrough e.g. production efficiency, major cost savings
- Beware of overselling



Futurist

13.5%

Technology Adoption Life Cycle

Early Majority

- Practical
- Low Profile & Down to Earth
- Make measured, incremental, and predictable progress to remain competitive
- Risk Adverse

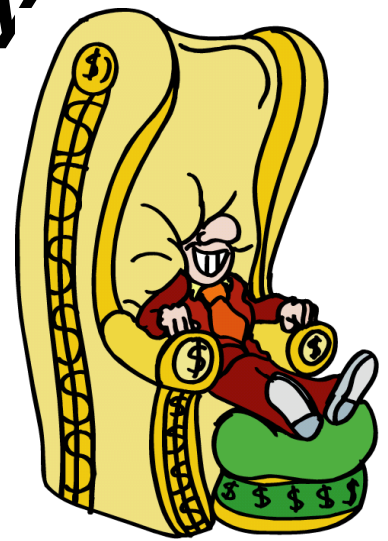


Mainstream
34%

Technology Adoption Life Cycle

Late Majority

- Conservative & prudent
- Traditional thinking
- High reluctance to change
- High tech companies are not sympathetic



Mainstream
34%

Insights

- Timing
 - Readiness of buyer/ seller
- Expectation
 - Rationalism of parties
 - Skepticism prevails
- Commercialisation Approaches
 - Online
 - Offline
 - Hybrid

Technology Transfer Offices

- **Academic**

- Massachusetts Institute of Technology (MIT) Technology Transfer Office

- work with industry, venture capital sources, and entrepreneurs to find the best way to commercialize new technologies
- Up to 80 license agreements (patents, trademarks and softwares) signed
- Rifle-shot marketing: matching specific technologies with specific business/investors needs

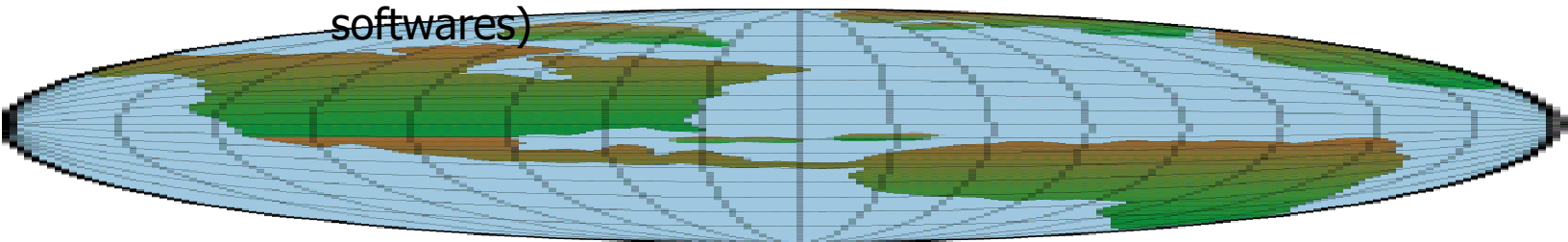


Technology Transfer Offices

- **Academic**

- Harvard University's Office for Technology & Trademark Licensing

- Engage private companies in the market to market and license IP on the universities behalf.
 - Owns a second technology licensing office for the medical and dental faculties.
 - Signed 80 license agreements (patents, trademarks and softwares)

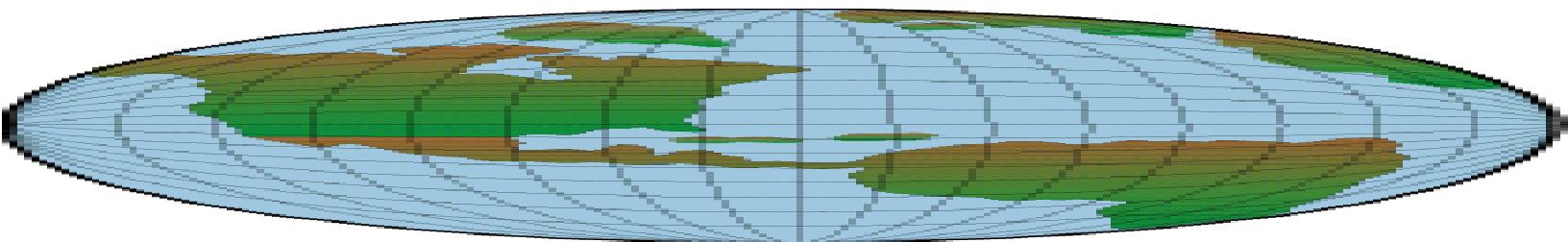


Technology Transfer Offices

- **Academic**

- ICON (Imperial College Consultants Ltd)

- a multidisciplinary consultancy company providing inventive technology-related services for industry through a network of highly specialised academic experts.
 - Formed in 1998
 - Highest research income university- 117 million pounds

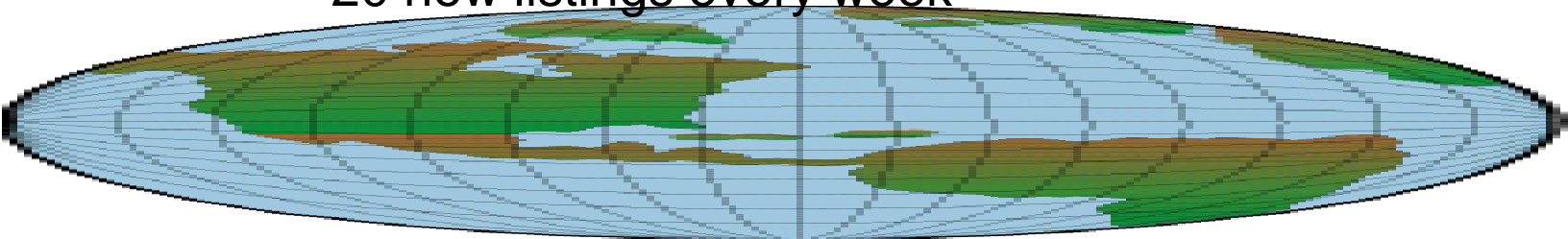


Technology Transfer Office

- **National**

- Korea Technology Transfer Office

- started in March 2000
- partners Government and Private Organisations (ventures, financial institutes etc)
- Services include Technology Transfer, Assessment, Consultation and Brokerage
- 20 new listings every week

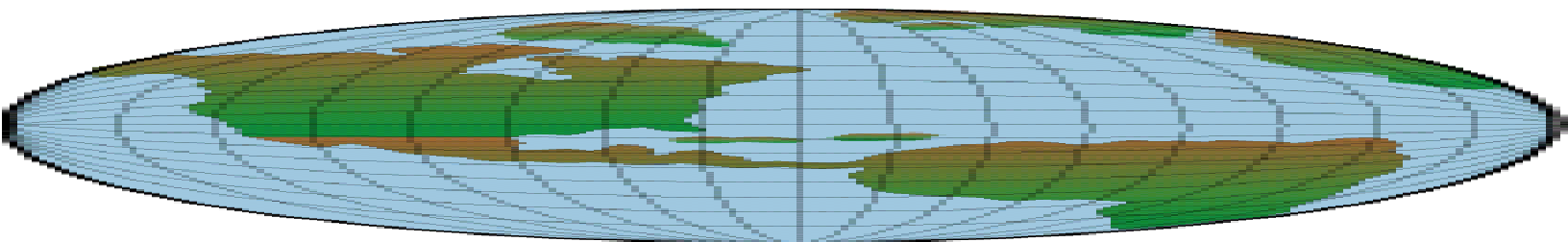


Technology Transfer Office

- **National**

- Exploit Technologies Pte Ltd

- commercialisation arm of Agency for Science, Technology and Research (A*STAR) in Singapore
- assists interested companies to license the technology



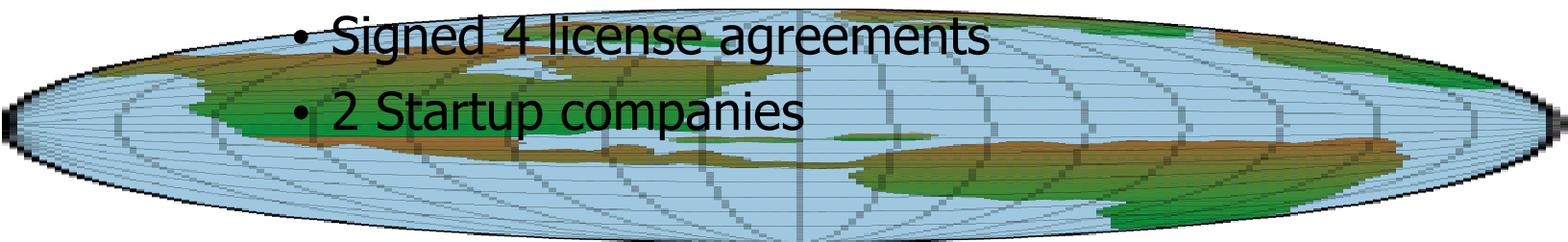
Technology Transfer Office

- **National**

- National Technology Transfer Center (NTTC):

- Established in 1989, NTTC offers a complete portfolio of products and services that enable American businesses to find technologies, facilities and world-class researchers from federal research centers

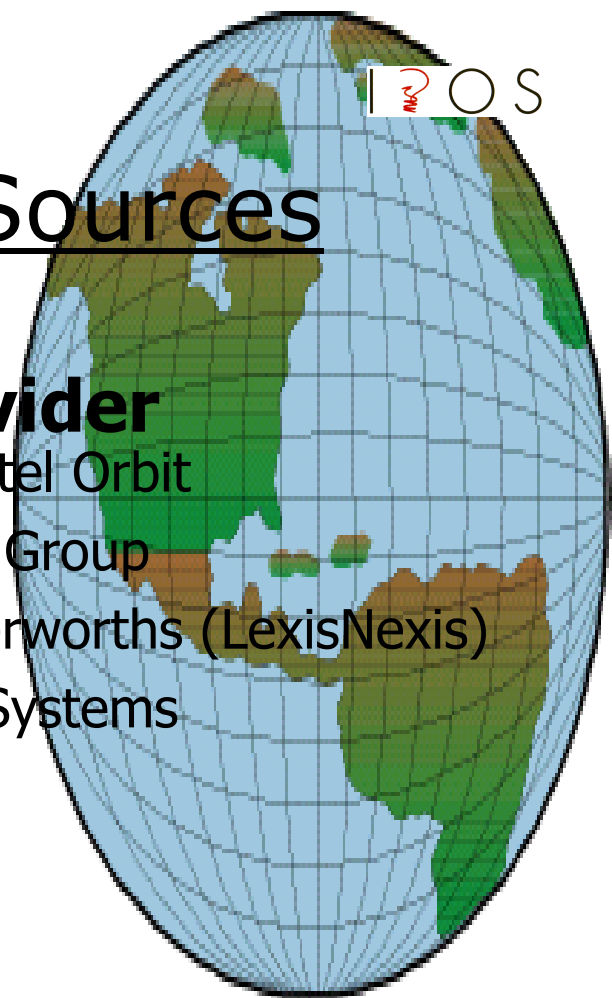
- Signed 4 license agreements
- 2 Startup companies



IP Information Sources

- **Private IP Service Provider**

- Derwent
- MicroPatent
- Delphion
- Sliver Platter Search
- PatentCafe
- Yet2.com
- SurfIP
- Global Prior Art
- Questel Orbit
- RWS Group
- Butterworths (LexisNexis)
- PI-x Systems



Success Stories



- *ChromaDex Inc and Bayer AG* -
– toxicity screen (Entrepreneur, 2001)
- *Dupont and Battelle*
– chemical synthesis (www.dupont.com, 2001)
- *Eastman Chemical Company and BKG Pelletizing Systems*
– polymer pellet-conversion technology (www.plxsystems.com, 2001)



One Stop First Stop IP Portal

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Singapore: Viacom Loses Fight For "MTV" Domain Name
Viacom International Inc, the global entertainment company which runs the cable music station MTV, has lost its fight ...

Registration of Polo Player Device Mark is Approved
The Singapore High Court recently dismissed an appeal filed by the Polo/Lauren Company LP against a decision of the Singapore registrar of trademarks...

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Mission IPOS-sible
1 Aug 2002

The Patent & License Exchange, Inc. Now PLX Systems Incorporated
12 Jul 2002

AIPPI Symposium 2002: IP AS A BUILDING TOOL
12 Jul 2002

IPOS @ INTA, May 2002
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Milestones

SurfIP is a special project initiated by the IPOS

- q SurfIP was officially launched on November 9, 2000
- q Awarded the prestigious U.S. E-Gov Trailblazer Award in 2001
- q Statistics

- Over **1,524,045** queries
- Over **1,026,704** visitor sessions
- Average **30,000 hits** per month
- **6,000** members (1/3- Singapore, 1/3- U.S. and 1/3- Rest of the World)





SURF IP
One-Stop First-Stop Intellectual Property Portal

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IP Spotlight More...

Singapore: Viacom Loses Fight For "MTV" Domain Name
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Login Page

The screenshot shows the SURF IP (One-Stop First-Stop Intellectual Property Portal) website. The browser window title is "SURF IP - The One-Stop First-Stop IP Portal - Microsoft Internet Explorer". The address bar shows the URL: http://www.surfip.gov.sg/sip_home2/ipp7bigand-606781272190839928. The page features a navigation menu with links for HOME, RESEARCH, MARKETPLACE, SERVICES, ABOUT US, OUR SERVICES, CONTACT US, and FAQs LINKS. The main content area is divided into several sections:

- Welcome to SURF IP jonathan**: A personalized greeting for the user "jonathan", identifying them as a "Corporate Gold User". A list of actions includes: 1. Change Password, 2. Edit Profile, 3. Logout.
- SURFIP RESEARCH QUICKSTART**: A search interface for patents and technical sources, including a search box and a "go" button, with an option to "Select another SurfIP Research tool".
- SURFIP MARKETPLACE QUICKSTART**: A search interface for IP Available and IP Wanted listings, including a search box and a "go" button, with an option to "Select another SurfIP Marketplace tool". Below this, there are links to browse listings by category and view latest listings.
- IP Spotlight**: A section with a "More..." link and two news items:
 - Singapore: Viacom Loses Fight For "MTV" Domain Name**: Viacom International Inc, the global entertainment company which runs the cable music station MTV, has lost its fight ...
 - Registration of Polo Player Device Mark is Approved**: The Singapore High Court recently dismissed an appeal filed by the Polo/Lauren ...
- SURFIP Services**: A list of services including: 1. Services Overview, 2. TRRU[®] metrics, 3. Valuation.
- SURFIP Research**: 1. My Bookmarks, 2. My Saved Searches.
- SURFIP Marketplace**: 1. Introduction & Tour, 2. My Bookmarks, 3. My Saved Searches, 4. My IP Alerts, 5. My Questions Asked, 6. PM Login.
- SANDIA On Patent Parade™**: A list of patent entries, including "W00227297 Pulsed laser linescanner for a backscatter absorption gas i..." and "200100616-2 Method and apparatus for thermal processing".
- Resources**: Links to "Singapore IP Law Resources", "Access China IP Law", and "IP Directory", with a "More..." link.

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Conducting a search ...

The screenshot shows the SURF IP RESEARCH website search interface. The page has a blue header with the SURF IP RESEARCH logo and the tagline "One-Stop IP Mining". To the right, it says "A Project By IPOS" with the IPOS logo and the tagline "LIGHTING UP YOUR CREATIVITY". Below the header is a navigation bar with links: HOME, RESEARCH, MARKETPLACE, SERVICES, ABOUT US, OUR SERVICES, CONTACT US, FAQs, LINKS.

The main content area is divided into several sections:

- Welcome to SURF IP:** A sidebar on the left shows the user is logged in as "surfip_user" (SurFIP Associate Member). It lists actions like "Change Password", "Edit Profile", and "Logout".
- SURF IP Research:** Lists "My Bookmarks" and "My Saved Searches".
- SURF IP Marketplace:** Lists "Introduction & Tour", "My Bookmarks", "My Saved Searches", "My IP Alerts", "My Questions Asked", and "PM Login".
- SURF IP Services:** Lists "Services Overview", "TRRU[®] metrics Valuation", "Manage Valuations", "Panel of Advisors", "Information Services", and "IP Directory".

The search interface itself is titled "Simple Search" and includes tabs for "Structured Search", "Patent Number Search", "IPC Search", and "Help".



Numbered annotations (1-5) highlight key search steps:

- 1. Enter search terms:** Points to the search input field.
- 2. Select your sources:** Points to the "Include the following patent sources?" section, which includes checkboxes for WIPO-PCT, IPO Singapore, Japan IPDL, Thailand IPIC, European Patent Office, UK Patent Office, IP Australia, Korean IPO, USPTO, Taipei Patents Index, Canada IPO, and China Patent Info Search.
- 3. Pick an industry area:** Points to a dropdown menu currently set to "General".
- 4. Begin:** Points to the "Search" button.
- 5. Use:** Points to the "Save Search" button.

Additional sections include "Include the following technical sources?", "Include the following business sources?", and "Include the following web sources?", each with their own sets of checkboxes and "Yes/No" options.

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Search Result List


















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- WO02067318** ELECTROMIGRATION TEST STRUCTURE FOR DETERMINING THE RELIABILITY OF WIRING
[[WIPO-PCT](#)   ]
- WO02067003** TEST CIRCUIT FOR HVDC THYRISTOR VALVES
[[WIPO-PCT](#)   ]
- WO02067001** MULTIPLE-CAPTURE DFT SYSTEM FOR DETECTING OR LOCATING CROSSING CLOCK-DOMAIN FAULTS DURING SELF-TEST OR SCAN TEST
[[WIPO-PCT](#)   ]

Full Patent Document

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
10 May 2001 (10.05.2001)

(10) International Publication Number
WO 01/32042 A1

(51) International Patent Classification: A43B 3/00, (71) Applicant and
7/32, 13/12 (72) Inventor: LEE, Kyun-Chul [KR/KR]; 91B-9L 1735-14
SongJung-Dong, KangSoc-Ku, Pusan 618-270 (KR).

(21) International Application Number: PCT/KR00/01264 (81) Designated States (national): BY, CN, DE, JP, RU, UA,
US.

(22) International Filing Date: 4 November 2000 (04.11.2000) Published:
— With international search report.
— Before the expiration of the time limit for amending the

(25) Filing Language: English

(54) Title: THE MINE BOMBPROOF, BULLETPROOF SAFETY COMBAT BOOTS

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[[WIPO-PCT](#)]

SurfIP Management Tools- Language Translation

The screenshot displays the SurfIP.gov.sg website interface. At the top, there is a navigation bar with the SurfIP logo and the text 'A project by The Intellectual Property Office of Singapore'. Below this, a blue banner contains the text 'T-Now T-Mail T-Magic T-Sail T-Board'. The main content area is titled 'T-Sail: Full & Magic' and includes a 'Start Sail'n at:' field with the URL 'http://pctgazette.wipo.int/cgi-bin-open/getbykey5?KEY=' and a 'Translate from' dropdown menu. The dropdown menu is open, showing a list of language pairs: Chinese(S) to English, English to Chinese Simplified, English to Chinese Traditional, English to French, English to German, English to Italian, English to Japanese, English to Korean, English to Portuguese, English to Spanish, and French to English. A search box is located below the dropdown menu. The website footer contains a message: 'The above document was found by Microsoft. Please read SurfIP's Terms and Conditions regarding the use of third party content.'

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Japanese

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 (22) **21 日 2 月 2002 年 (21.02.2002)**
 (23) 英 籍 (26) 英 籍
 (31) 0104922.0 (32) 28 日 2 月 2001 年 (28.02.2001) Gb
 (43) 06 日 9 月 2002 年 (06.09.2002)
 (51) ⁷ H04N 5/14, G11B 27/28, 27/031, H04N 7/36, G08B 13/1 96, 15/00
 (54) 場面の重要な変更を検出する方法
 (71) **SCYRON は Philmel の 家**, Sytchampton を, Stourport Severn で, Worcestershire DY13 9TA 限った; (gb) . [GB/GB] .
 (すべての指名州のために米国を除外しなさい)
 (72)(75) **MANSFIELD, リチャードのルイ** Philmel の家, Sytchampton, Stourport Severn で, Worcestershire DY13 9TA; (GB)
 [GB/GB] . **花** , Nicholas のジョン 180 Selly の木製の道 , Bourmville, バーミンガム, 西の Midlands B30 1TJ; (GB)
 [GB/GB] .
 (74) **ジャクソン , Derek, チャールズ** Derek ジャクソンは, 古いヤードすなわちより低い町, Claines, Worcester WR3 7RY 関連
 付ける ; (gb) .
 (81)
 AE, アパーチュアグリルの A1, あは, で, 金, AZ の BA, BB, BG の BR, BZ, CA, CH, CN, CO の CR すなわち CU, CZ,
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Ausgegebenes internationales Anwendungsgebiet


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 (21) PCT/GB02/00762
 (22) **21.02.2002**
 (23) Engländer (26) Engländer
 (31) 0104922.0 (32) 28.02.2001 Gb
 (43) 06.09.2002
 (51) ⁷ H04N 5/14, G11B 27/28, 27/031, H04N 7/36, G08B 13/1 96, 15/00
 (54) Verfahren zur Erkennung wichtiger Änderungen in einer Szene
 (71) **SCYRON ist Philmel's Haus**, Sytchampton bei, Stourport Severn in, Worcestershire DY13 9TA beschränkt; (gb) . [GB/GB] .
 (Alle benannten Staaten für die USA auszuschließen)
 (72)(75) **MANSFIELD, Richard Louis** Philmel's Haus, Sytchampton, Stourport Severn in, Worcestershire DY13 9TA; (GB)
 [GB/GB] . **Blume** , Nicholas John 180 Selly Holzweg , Bourmville, Birmingham, West Midlands B30 1TJ; (GB)
 [GB/GB] .
 (74) **Jackson, Derek, Charles** Derek Jackson Teilnehmer, Das Alte Gelände, Unterere Stadt, Claines, Worcester WR3 7RY;
 (81)
 AE, AG, AL, MORGENS, AN, AU, AZ, BA, BB, BG, BR VORBEI BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, LA
 DE, DK, DM, DZ, LA, DE, DK, DM, DZ, LE KILogramm, KP, KR, KZ, LC, LK, LR, LS, LE LIEUTENANT, LU, LV, MA, MD, LE MAGNÉSIUM, MK, LE
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 (22) **21.02.2002**
 (23) Anglaise (26) Anglaise
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 (54) Méthode de détection de modifications importantes dans une scène
 (71) **SCYRON est Philmel's Maison**, Sytchampton à, Stourport Severn dans, Worcestershire DY13 9TA limitée; (gb) . [GB/GB] .
 (Tous les États désignés pour les États-Unis)
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 DE, DK, DM, DZ, LA, DE, DK, DM, DZ, LE KILogramm, KP, KR, KZ, LC, LK, LR, LS, LE LIEUTENANT, LU, BT, MCA, MD, LE MAGNÉSIUM, MK, LE
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Title	ANTI-BACKLASH AND BACKDRIVE RESISTANT MECHANISM
Print	
Listing ID	322
Date Listed	29 May 2002 08:43:32
Technical Classification	8.2.2. Engineering elements or units; general measures for producing and maintaining effective functioning of machines or installations; thermal insulation in general
Type of Interest / Collaboration Sought	Other commercial
Abstract	Mechanism applicable to helical mesh elements (worm gear or lead screw), employing two input components both in engagement with the same mating output component. The input components are oppositely sprung by a torsion (not linear) spring, thus jamming the output component rigidly, eliminating backlash and offering true resistance to backdrive.
Function	An anti-backlash and backdrive resistant mechanism employing two helical mesh components (for input of movement) in engagement with one mating component (which produces output movement). Three embodiments disclosed employ: i) two input worms in mesh with one output worm gear, ii) two input nuts in mesh with one output lead screw, and iii) two input lead screw in mesh with one output carriage block having two mating threaded holes. The two input components are connected to each other via a torsion spring such that the biasing torque that each component receives tends to move the output component in opposite directions taking up any clearance that is present between the components in mesh and eliminating backlash. The non-overhauling nature of the helical mesh causes the output component to be rigidly jammed thus resisting backdrive. To effect movement, one of the input components is turned such that it increases the torsional deflection of the spring, thus overcoming the biasing torque and, at some point, releasing the mechanism from its state of being jammed.
Problem Solved	Present anti-backlash mechanisms usually employ two spring loaded input components, for example, using two spring-loaded half-nuts on the lead screw or two spring loaded worms on the worm gear. However, the amount of load that the table can thus carry and its resistance to backdrive is limited to the magnitude of the spring force. It is not possible to increase the spring force indefinitely because a higher spring force increases the friction of the mechanism resulting in excessive wear and poor efficiency. It is also not possible to replace the spring with a rigid spacer or non-compensating mechanism such as the Duplex Lead worm or by adjustment of pitch distance because with wear, the clearance increases and the rigid spacer/mechanism will not be able to take up the new clearance. It is also not completely satisfactory to replace the rigid spacer with one that can only lengthen but not shorten because wear of the lead screw/worm gear may not be uniform throughout its length/circumference and the mechanism may bind when it has travelled to a position where the clearance is less. The use of ball-type components solves the problem of backlash. However, it does not offer resistance to backdrive.



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