



The Derwent patent family and its application in Patent Statistical Analysis

*WIPO-OECD Workshop on Statistics in the
Patent Field,
Geneva, Sept 18-19, 2003
Doina Nanu, Thomson Derwent*

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Patent family - background

- 1883 – Paris convention on Protection of Industrial Property
- Complexity of patenting system
 - National route – several publications
 - Multi-national route
 - Priority information
 - Specificity of the national patent law
 - Same invention -multiple languages



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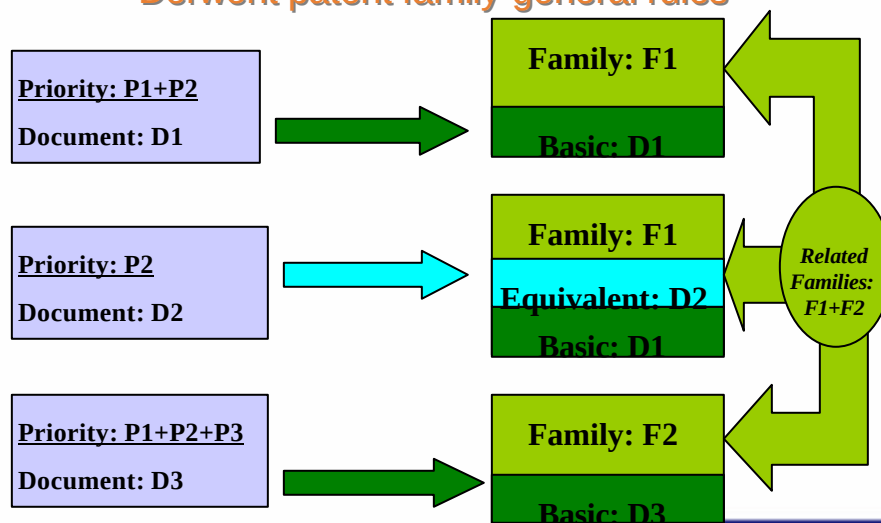
Derwent patent family –general concept

- Patents covering the same invention
- Pre-processing steps of patent data:
 - Standardisation and validation of incoming patent data
 - Document, application and priority numbers and dates
 - IPC validation/correction
 - Company names validation/standards codes



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Derwent patent family-general rules



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Derwent patent family – more rules

- Divisional and continuation patent applications – same status as original document
- Non –convention equivalents – applications filed by non residents in a country
 - No priority data other than local filing details
 - Usually outside the twelve months period stipulated by the Paris Convention
 - Criteria used for identification of equivalency: inventor names and countries of residence, subject matter, drawings and diagrams, etc



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WPIL - (C) Thomson Derwent- image

CPIM Thomson Derwent

AN - 1996-311290 [32]

XA - C1996-099420

TI - Furnace for continuously melting vitreous materials for subsequent glass shaping - comprising glass melting compartment having charging aperture and discharging aperture for molten glass

DC - L01

PA - (COMP) SAINT-GOBAIN VITRAGE

IN - BOILLET J

PN - FR2728254 A1 19960621 DW1996-32 C03B-005/04 17p *

AP: 1994FR-0013380 19941108

- EP-805123 A1 19971105 DW1997-49 C03B-005/235 Fre 10p #

AP: 1996EP-0400933 19960502

DSR: BE DE ES FR GB LU PT

- BR9602176 A 19980630 DW1998-33 C03B-005/235 #

AP: 1996BR-0002176 19960507

- MX9601686 A1 19971101 DW1999-02 C03B-005/00 #

AP: 1996MX-0001686 19960506

- US5906119 A 19990525 DW1999-28 F27B-003/22 #

AP: 1996US-0641589 19960501

- MX-199742 B 20001124 DW2002-15 C03B-005/42 #

AP: 1996MX-0001686 19960506

PR - 1994FR-0013380 19941108; 1996EP-0400933 19960502; 1996BR-0002176

19960507; 1996MX-0001686 19960506; 1996US-0641589 19960501

Derwent Basic patent

Derwent non-con equivs.



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WPIL - (C) Thomson Derwent- image
 CPM Thomson Derwent
 AN - 2002-306437 [35]
 XP - N2002-239587
 TI - Welding structure formation for building applications, involves controlling welding of the constituents arranged on support surface based on position of weld points determined from recorded data
 DC - E55 X24 X25
 PA - (KVAE-) KVAERNER MASA YARDS OY
 IN - SAEIKKOE J; VEIKKOLAINEN M; SAEIKKOE J
 PN - EP1188510 A2 20020320 DW2002-35 B23K-037/00
 AP: 2001EP-0307057 20010820
 DSR: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI TR
 - NO200104174 A 20020301 DW2002-35 B23K-037/00
 AP: 2001NO-0004174 20010828
 - US20020046999 A1 20020425 DW2002-35 B23K-009/12
 AP: 2001US-0941485 20010828
 - FI200001907 A 20020301 DW2002-37 B23K-000/00
 AP: 2000FI-0001907 20000829
 - JP2002113578 A 20020416 DW2002-42 B23K-009/12 7p
 AP: 2001JP-0259768 20010829
 - KR2002018057 A 20020307 DW2002-61 B23K-037/02
 AP: 2001KR-0052046 20010829
 - CN1408500 A 20030409 DW2003-45 B23K-028/02
 AP: 2001CN-0137641 20010922
 PR - 2000FI-0001907 20000829; 2001CN-0137641 20010922

KVAERNER MASA YARDS OY
 SAEIKKOE J; VEIKKOLAINEN M

KEVANAL MASHA-YADES OY
 J. SACO; M. WIKLANIN



Patent data mining and visualisation

- Derwent Analytics powered by VantagePoint
 - Desktop software optimised for use with Derwent World Patents Index
- Built in intelligence enhances value-add characteristics of the data
 - Comprehensive global country coverage
 - Derwent classification and manual codes
 - Patent assignee codes
 - Titles and abstracts
- Provides intuitive maps
- Uses natural language processing and grouping function



Derwent Analytics - case study

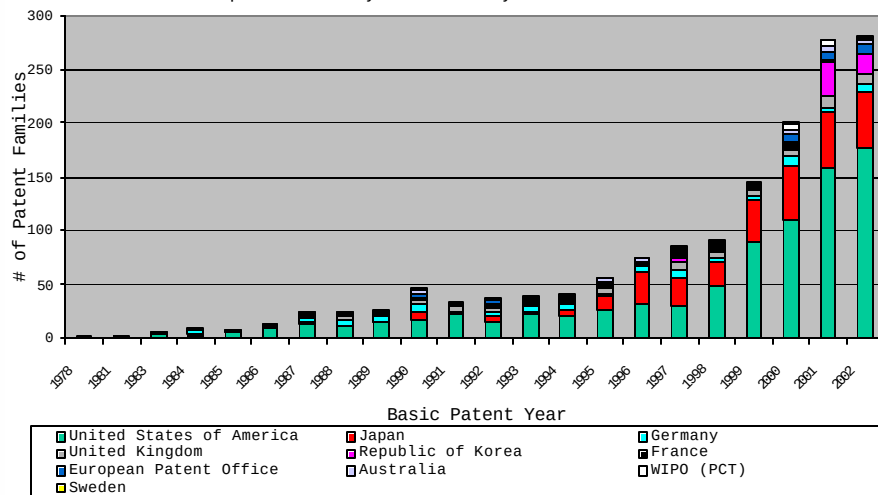
- General Technology search on Computer Security Systems
- Identify ways in which Derwent Analytics can be used in discovering knowledge within this technology area
 - Competitive intelligence
 - Research and development
 - Licensing opportunities



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Where are the competitors?

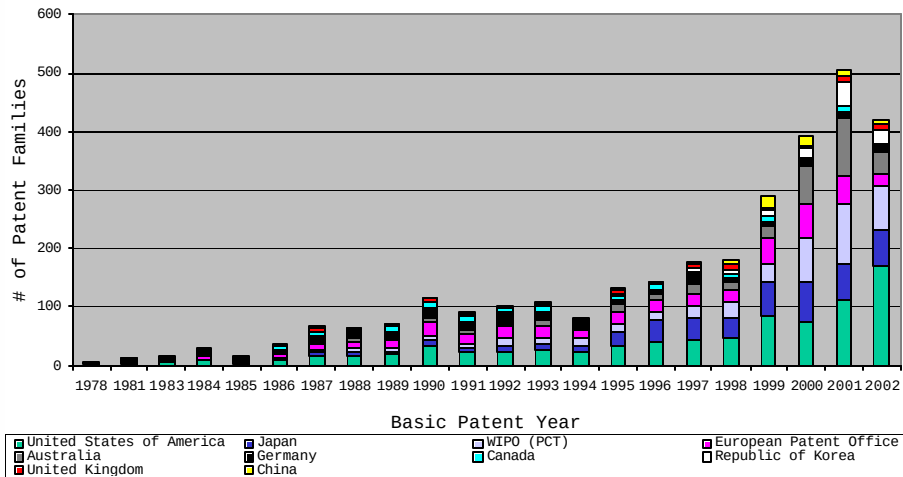
Top Ten Priority Countries by Basic Patent Year



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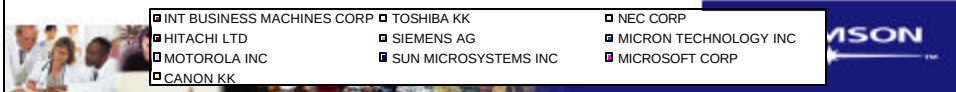
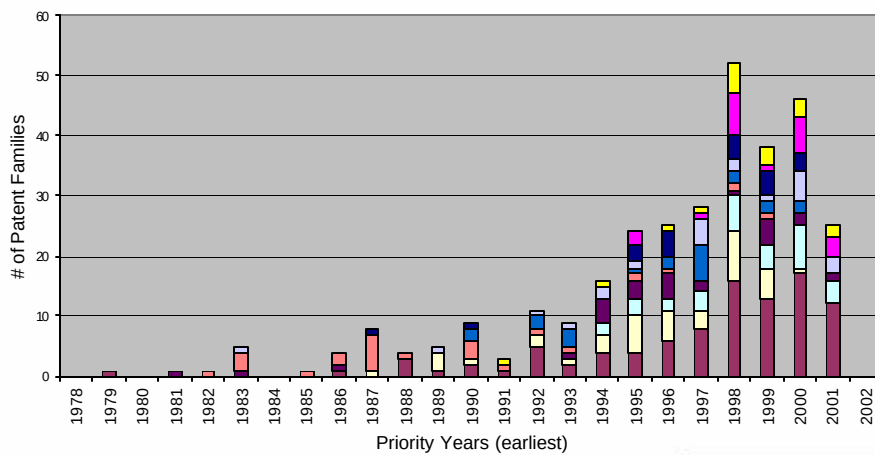
Where is the market?

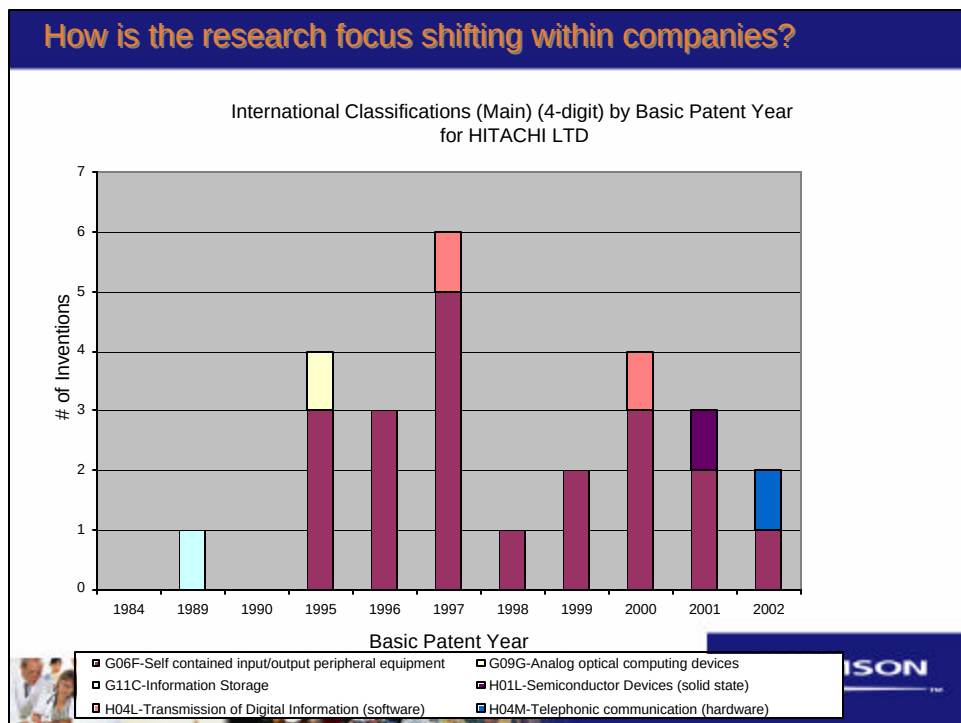
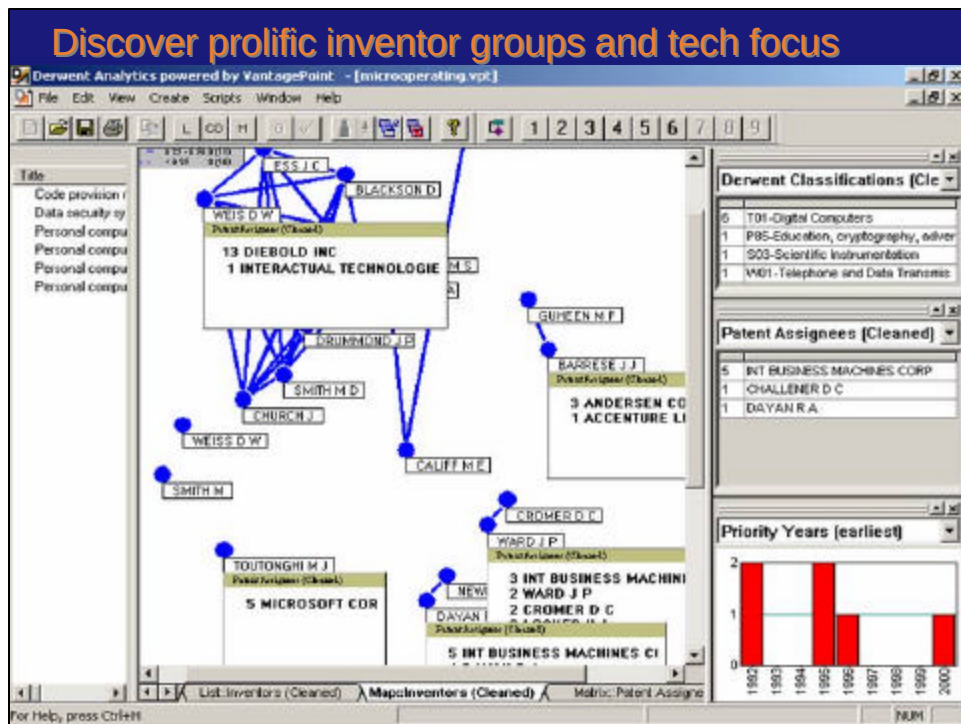
Top Ten Family Member Countries By Basic Patent Year



Profile key players and their patenting activity over time

Patent Assignees by Priority Years (earliest)





Summary

- Patent family – relative and complex concept
- Derwent Patent Family + Derwent Analytics – powerful information tool to:
 - explore the dynamics of the technology landscape
 - identify patenting trends
 - identify major players, global competitors
 - derive value-add statistics



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Thank you

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doina.nanu@derwent.co.uk



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