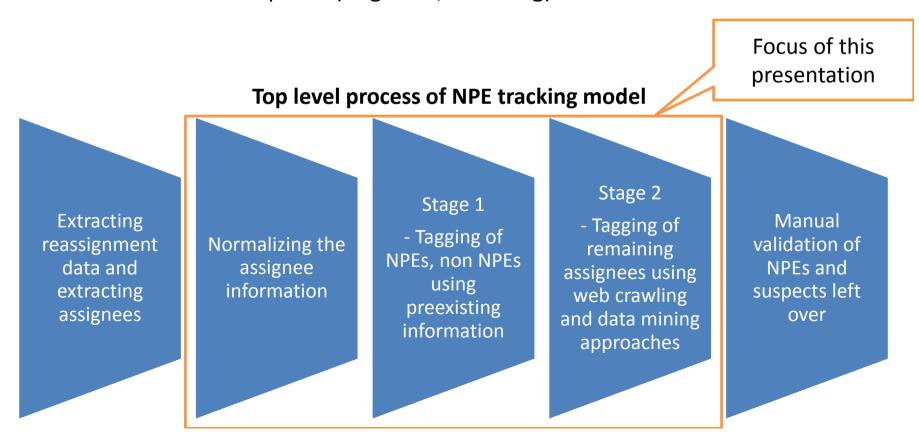


Automating Web Research using Customized Search Tools

Background



- Goal: Tag NPE suspects and identify patents that are reassigned to these entities in a timely, proactive manner.
- 'NPE' refers to entities that Dolcera research could not associate with having significant R&D or products. The goal of acquiring patents is believed to be for profit (litigation, licensing).



Background



- Test data set: 10 day USPTO reassignments (December 2011)
 - 11k transactions, 4k assignees

Category	Manual	Machine Assisted
Total transactions	11K+	11K+
Total assignees (normalized)	3977	3977
Automatically handled	1438	3776
Manually handled	2539	201
NPEs identified	58	61
False negatives	6	3

- For this demonstration, a sample of 48 assignees previously extracted from the USPTO assignment database has been used to walk through the logic of the model.
 - Sample biased towards suspects and NPEs to cover all aspects of model.

Background



- NPE tracking model was developed iteratively (6 iterations to date)
 - Choice of filters very conservative
 - Using additional filters (assignor, technology etc.) and patent based information (IPC classes covered etc.) is likely to enhance and optimize model further.
 - Model needs testing on larger datasets.
- Leveraged previous Dolcera work
 - Dolcera databases

Database	Strength
Assignee normalization company names corpus	90000 company names from all corners of the world mapped to their ultimate parent through corporate tree
Assignee normalization university names corpus	20000 university names covering all geographies
Public companies database	47000 public companies names collected from various sources
Known-NPE database	3000 NPE names encountered to Dolcera team till date
Known non-NPE database	5000 known non-NPE companies database

- Address match algorithm
- Potential reusability of developed scripts
 - Identify if a web address belongs to an entity.
 - Web crawling and keyword/context extraction and processing.
 - Use of multiple parameters (litigations, keywords, 3rd party information) for decision making

Sample dataset: 48 assignees



ACTAVIS GROUP PTC EHF

ACTIVEVIDEO NETWORKS INC

PRINCETON DIGITAL IMAGE CORP

A123 SYSTEMS INC

NASOPHLEX B.V

CITIZENS BANK OF PENNSYLVANIA

ACADEMIXDIRECT INC.

MAYA-SYSTEMS INC

TERRA NOVA NURSERIES INC

FERGASON PATENT PROPERTIES LLC

INTER DIGITAL

ACCELLENT INC

INTELLECTUAL VENTURES HOLDING 32 LLC

HELYSSEN SARL

AIR PRODUCTS AND CHEMICALS INC.

CPA GLOBAL PATENT RESEARCH LTD

MAPI VISION TECH INC.

SIGHTSOUND TECHNOLOGIES LLC

ADAPTIVE MATERIALS INC

ABLECO FINANCE LLC A DELAWARE

MAQUIS TECHTRIX LLC

ADETHERAPEUTICS INC

OPEN INVENTION NETWORK LLC

ACERGY FRANCE SA

CLEMSON UNIVERSITY

UNILOC LUXEMBOURG S.A.

COMERICA BANK

INVENSAS CORP

ALNYLAM EUROPE AG

CROSSBAR INC

ADENIUM BIOTECH APS

KILOPASS TECHNOLOGY INC

AISIN SEIKI KABUSHIKI KAISHA

AGILENT TECHNOLOGIES INC

EYAL RESEARCH CONSULTANTS LTD

X2Y ATTENUATORS LLC

PERSONALWEB TECHNOLOGIES LLC

TALON RESEARCH LLC

AIDA ENGINEERING LTD

ADA ENVIRONMENTAL SOLUTIONS LLC

MEDIA SOURCERY INC.

AMBERWAVE INC

HEADWATER PARTNERS LLIC

AD-FIN SPA

ZENTARIS LTD

MOTILITY SYSTEMS

TRUSTEES OF COLUMBIA UNIVERSITY IN THE

CITY OF NEW YORK



Normalizing the assignee information

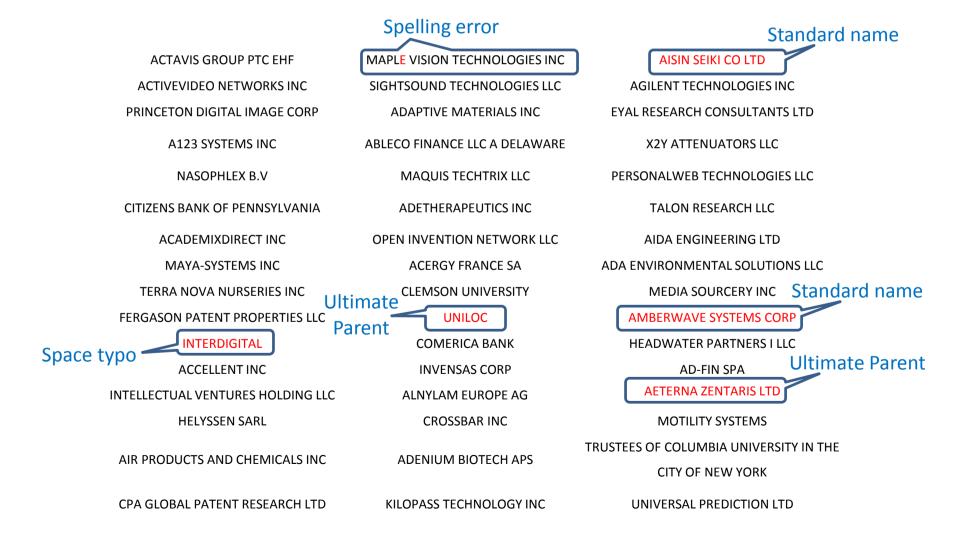
Stage 1
Tag NPEs, non
NPEs using
pre existing
data

Tag remaining assignees using web crawling and data mining approaches

Dolcera assignee normalization



- Coverts assignee to standard form and detects its corporate tree.
- Database contains 90K+ company names and 20K+ university names along with govt. institutions mapped to ultimate parents through corporate tree.
- Updated regularly Dolcera analysts, learning module



Dolcera assignee normalization



Assignee processing

Cleaning assignee entities if they contain addresses usually identified using punctuation marks

Processing abbreviations e.g. Res gets converted to Research, Int or Intl gets converted to International

Looking for exact matches for given assignee name in corpus.

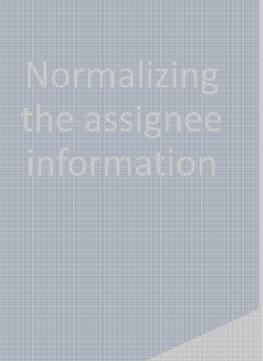
Looking for edit distance matches to adjust for spelling mistakes e.g. Dalcera Corp assignee name matches with Dolcera Corp with 1 edit distance

If match is detected in any of previous two steps, determine ultimate parent for given assignee.

If match is not found system stores assignee in its other database which is reviewed manually regularly to be added to database

Processing business entities and converting it into standard format. Dolcera Corporation is converted to Dolcera Corp





Stage 1

- Tag NPEs, non NPEs using pre existing data

- Use Dolcera company database / public sources to
 - 1. Tag known NPEs
 - 2. Tag known non NPEs
 - 3. Tag public companies, banks, universities
- 2. Tag NPEs using address matching algorithm

Stage 1: Tag known NPEs

NAADI E VIICIONI



Known NPFs

ACTAVIS GROUP PTC EHF	MAPLE VISION	AISIN SEIKI CO LTD		Known NPES
ACIAVIS GROOF FICEIII	TECHNOLOGIES INC			Interdigital
	SIGHTSOUND			Round Rock Research LLC
ACTIVEVIDEO NETWORKS INC	ACTIVEVIDEO NETWORKS INC TECHNOLOGIES LLC AGILENT TECHNOLOGIES INC		Rockstar Consortium LLC	
PRINCETON DIGITAL IMAGE CORP	ADAPTIVE MATERIALS INC	EVAL RESEARCE	H CONSULTANTS LTD	Intellectual Ventures Holding
T MINCE TON DIGITAL IMAGE COM		LIALICI	TEONSOLIANTS LIB	company LLC
A123 SYSTEMS INC	ABLECO FINANCE LLC A	X2Y ATTE	ENUATORS LLC	Wisconsin Alumni Research
	DELAWARE			Foundation (WARF)
NASOPHLEX B.V	MAQUIS TECHTRIX LLC	PERSONALWE	TECHNOLOGIES LLC	Mosaid Technologies Inc
CITIZENC DANK OF DENNICYLVANIA	A DETUED A DELITICS INC	TAYON	DECEARCILLIA	Rambus
CITIZENS BANK OF PENNSYLVANIA	ADETHERAPEUTICS INC	TALON F	RESEARCH LLC	Tessera Technologies Inc
	OPEN INVENTION NETWORK			Acacia Technologies
ACADEMIXDIRECT INC	LLC	AIDA ENGINEERING LTD		Walker Digital LLC
				Wi-Lan
MAYA-SYSTEMS INC	ACERGY FRANCE SA	ADA ENVIRONI	MENTAL SOLUTIONS	Jerome H Lemelson
			LLC	Scenera Research LLC
TERRA NOVA NURSERIES INC	CLEMSON UNIVERSITY	MEDIA S	OURCERY INC	
FERGASON PATENT PROPERTIES LLC	UNILOC	AMBERWA	/F SYSTEMS CORP	
INTERDIGITAL	COMERICA BANK	HEADWATE	 Current Dolcera com 	pany database
ACCELLENT INC	INVENSAS CORP	ΑГ	contains ~3000 NPE a	and subsidiaries;
INTELLECTUAL VENTURES HOLDING		AETERN <i>I</i>	includes all publici list	ted NPEs.
LLC	ALNYLAM EUROPE AG	AETEKNA	•	
	CDOCCDAD INC	MOTU	 Preprocessing (stem 	ming and
HELYSSEN SARL	CROSSBAR INC		•	
AIR PRODUCTS AND CHEMICALS INC	ADENIUM BIOTECH APS	TRUSTEES OF C	•	
AIR FRODUCTS AND CITEMICALS INC	ADDIVIDIO DIO LEGITARS	IN THE CIT	compare the assignee	list with the NPE list.
CPA GLOBAL PATENT RESEARCH LTD	KILOPASS TECHNOLOGY INC	UNIVERSAL	PREDICTION LTD	

Stage 1: Tag known non NPEs



ACTAVIS GROUP PTC EHF

ACTIVEVIDEO NETWORKS INC

PRINCETON DIGITAL IMAGE CORP

A123 SYSTEMS INC

NASOPHLEX B.V

CITIZENS BANK OF PENNSYLVANIA

ACADEMIXDIRECT INC

MAYA-SYSTEMS INC

TERRA NOVA NURSERIES INC

FERGASON PATENT PROPERTIES LLC

INTERDIGITAL

ACCELLENT INC

INTELLECTUAL VENTURES HOLDING

LLC

HELYSSEN SARL

AIR PRODUCTS AND CHEMICALS INC

CPA GLOBAL PATENT RESEARCH LTD KILOPASS TECHNOLOGY INC

MAPLE VISION

TECHNOLOGIES INC

SIGHTSOUND

TECHNOLOGIES LLC

ADAPTIVE MATERIALS INC

ABLECO FINANCE LLC A

DELAWARE

MAQUIS TECHTRIX LLC

ADETHERAPEUTICS INC

OPEN INVENTION NETWORK

LLC

ACERGY FRANCE SA

CLEMSON UNIVERSITY

UNILOC

COMERICA BANK

INVENSAS CORP

ALNYLAM EUROPE AG

CROSSBAR INC

ADENIUM BIOTECH APS

AISIN SEIKI CO LTD

AGILENT TECHNOLOGIES INC

EYAL RESEARCH CONSULTANTS LTD

X2Y ATTENUATORS LLC

PERSONALWEB TECHNOLOGIES LLC

TALON RESEARCH LLC

AIDA ENGINEERING LTD

ADA ENVIRONMENTAL SOLUTIONS

YLC

MEDIA SOURCERY INC

AMBERWAVE SYSTEMS CORP

HEADWATER PARTNERS I LLC

AD-FIN SPA

AETERNA ZENTARIS LTD

MOTILITY SYSTEMS

TRUSTEES OF COLUMBIA UNIVERSITY

IN THE CITY OF NEW YORK

UNIVERSAL PREDICTION LTD

Known non-NPEs

AISIN SEIKI LTD AGILENT TECHNOLOGIES INC **ADVICS LTD** AIDA ENGINEERING LTD **AETERNA ZENTARIS LTD AIR PRODUCTS AND**

E INK HOLDINGS INC **DIALOG SEMICONDUCTOR** LTD

CHEMICALS INC

- Current Dolcera company database contains over 5000 private non NPE entities.
- Preprocessing and used for implementation.

Stage 1: Tag public companies, banks, universities



- Public companies database has 47k+ entries.
- Banks and universities tagged after normalization using keyword matches.

ACTAVIS GROUP PTC EHF

ACTIVEVIDEO NETWORKS INC

PRINCETON DIGITAL IMAGE CORP

A123 SYSTEMS INC

NASOPHLEX B.V

CITIZENS BANK OF PENNSYLVANIA

ACADEMIXDIRECT INC

MAYA-SYSTEMS INC

TERRA NOVA NURSERIES INC

FERGASON PATENT PROPERTIES LLC

INTERDIGITAL

ACCELLENT INC

INTELLECTUAL VENTURES HOLDING LLC

HELYSSEN SARL

AIR PRODUCTS AND CHEMICALS INC

CPA GLOBAL PATENT RESEARCH LTD

MAPLE VISION TECHNOLOGIES INC

SIGHTSOUND TECHNOLOGIES LLC

ADAPTIVE MATERIALS INC

ABLECO FINANCE LLC A DELAWARE

MAQUIS TECHTRIX LLC

ADETHERAPEUTICS INC

OPEN INVENTION NETWORK LLC

ACERGY FRANCE SA

CLEMSON UNIVERSITY

UNILOC

COMERICA BANK

INVENSAS CORP

ALNYLAM EUROPE AG

CROSSBAR INC

ADENIUM BIOTECH APS

KILOPASS TECHNOLOGY INC

AISIN SEIKI CO LTD

AGILENT TECHNOLOGIES INC

EYAL RESEARCH CONSULTANTS LTD

X2Y ATTENUATORS LLC

PERSONALWEB TECHNOLOGIES LLC

TALON RESEARCH LLC

AIDA ENGINEERING LTD

ADA ENVIRONMENTAL SOLUTIONS LLC

MEDIA SOURCERY INC

AMBERWAVE SYSTEMS CORP

HEADWATER PARTNERS I LLC

AD-FIN SPA

AETERNA ZENTARIS LTD

MOTILITY SYSTEMS

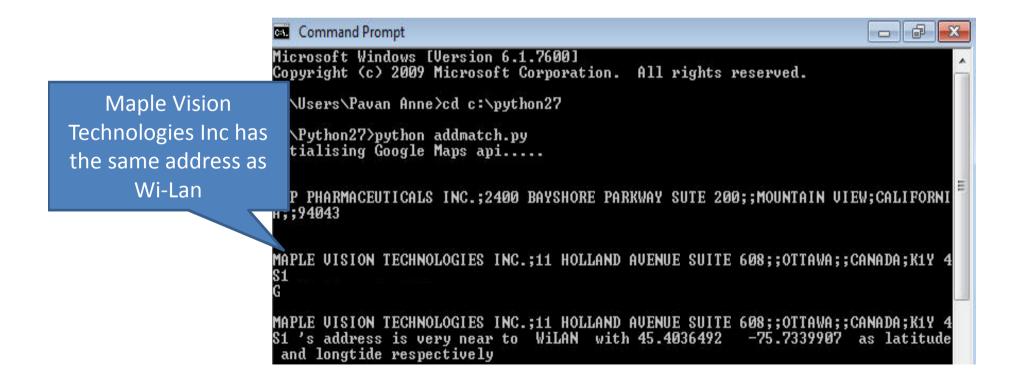
TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF

NEW YORK

Stage 1: Address matching algorithm



- Dolcera's assignee normalization database stores the address information of all normalized assignees using latitude-longitude information.
- An address matching algorithm developed converts and matches address information of 'suspect' entities to known NPE's.



Results of stage 1 & input to stage 2



Stage 1 tagged entities

Remaining unknowns at start of stage 2

AISIN SEIKI CO LTD

AGILENT TECHNOLOGIES INC

AIDA ENGINEERING LTD

A123 SYSTEMS INC

CLEMSON UNIVERSITY

CITIZENS BANK OF PENNSYLVANIA

COMERICA BANK

INVENSYS CORP

AETERNA ZENTARIS LTD

TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF

NEW YORK

AIR PRODUCTS AND CHEMICALS INC

INTERDIGITAL

INTELLECTUAL VENTURES HOLDING LLC

MAPLE VISION TECHNOLOGIES INC

ACCELLENT INC

CPA GLOBAL PATENT RESEARCH LTD

HELYSSEN SARL

SIGHTSOUND TECHNOLOGIES LLC

ADAPTIVE MATERIALS INC

ABLECO FINANCE LLC A DELAWARE

MAQUIS TECHTRIX LLC

ADETHERAPEUTICS INC

OPEN INVENTION NETWORK LLC

ACERGY FRANCE SA

X2Y ATTENUATORS LLC

UNILOC

ACADEMIXDIRECT INC

MAYA-SYSTEMS INC

ALNYLAM EUROPE AG

CROSSBAR INC

ADENIUM BIOTECH APS

KILOPASS TECHNOLOGY INC

ACTAVIS GROUP PTC EHF

ACTIVEVIDEO NETWORKS INC

EYAL RESEARCH CONSULTANTS LTD

NASOPHLEX B.V

PERSONALWEB TECHNOLOGIES LLC

TALON RESEARCH LLC

PRINCETON DIGITAL IMAGE CORP

ADA ENVIRONMENTAL SOLUTIONS LLC

MEDIA SOURCERY INC

AMBERWAVE SYSTEMS CORP

HEADWATER PARTNERS I LLC

AD-FIN SPA

TERRA NOVA NURSERIES INC

MOTILITY SYSTEMS

FERGASON PATENT PROPERTIES LLC



Assignee types: Suspects (using website, litigation, Bloomberg description) Suspects (using 3rd party descriptions/references) Entities with no "suspicious" information on the web are non NPEs.

Stage 2

- Tag
remaining
assignees
using web
crawling and
data mining
approaches

Stage 2: Website detection



- Identify the correct homepage, if it exists
 - Retrieve first 10 links from web search.
 - Use assignee 'name matches' in link and title in addition to count of backslashes, words like index, home etc. (if needed), to find the 'homepage' of the assignee.
 - http://www.accelent.com/solutions
 - Ignore results from alibaba.com etc. (htttp://www.accelent .co.en.alibaba.com/)

X2Y ATTENUATORS LLC

About 6.760 results (0.35 sec

The first link is the homepage for X2Y Attenuators LLC using name, backslash rule

X2Y Attenuators - Home

www.x2y.com/

X2Y Attenuators, LLC is an Intellectual Property Company that develops ... Patented X2Y® Technology is an enabler to this end; ultra-low inductance X2Y ...

X2Y® S-parameter Extraction

DISCLAIMER: Information and suggestions furnished in this ...

Common Mode Filters

Occurs when individual filters are not matched. • Differential signal ...

DC Motor EMI Suppression

2. DC Motor EMI Suppression. 1. Why Do DC Motors Need EMI ...

More results from x2y.com »

IP Portfolio

X2Y® improves performance, component reduction and cost ...

News

X2Y® improves performance, component reduction and cost ...

Contact Us

contact us. Fields marked with * are required. Nature of ...



X2Y Attenuators, LLC v. Intel Corporation et. al. patent lawsuit

Stage 2: Recording word occurrences



- Record occurrences of keywords like patent, licensing, license, intellectual property, attorney etc. if found on the company's website.
- Stop words and context (Ex: keywords in association with others like patent protect* occur equally on all websites) may be used to enhance model (needs additional pattern research).

HOME . ABOUT US . NEWS . CONTACT US X2Y Attenuators may be a licensing company: keywords like intellectual property Company Overview X2Y® Technology Manufacturing and Circuit designers today are X2Y® capacitor technology is ntellectual Property Company component solutions for the manufacturers. End-users can (div id="content"> just as they would any other <div id ="topic1" class="homintro"> <!-- InstanceBeginEditable name="int rovide broadband performance or through a wide variety of <h2>Company Overview</h2> dedicated to helping comp X2Y Attenuators, LLC is an Intellectual Property Company that develops advanced passive component solutions for the electronics industry. Founded in June 1996, the company is headquartered </P> <P>X2Y Attenuators, LLC is dedicated to helping companies identify applications where X2Y components can improve circuit performance and save money. We provide application assistance for successful appl: our products. Contact Us &raguo; <!-- InstanceEndEditable --> </div>



- Number of links on the website (NPEs tended to have fewer links in our sample).
- Words such as 'distribution', 'careers', 'retail', etc. typically indicate non-NPEs (possible enhancement).
- 'University' and its context (words like laboratory) on the web site is recorded to detect a university spinoff.

NPE/Suspects	Links
Headwater Partners I LLC	10
Motility Systems	9
Amberwave Systems	4

HELYSSEN SARL: University (EPFL), spin off, etc. indicate a non NPE entity

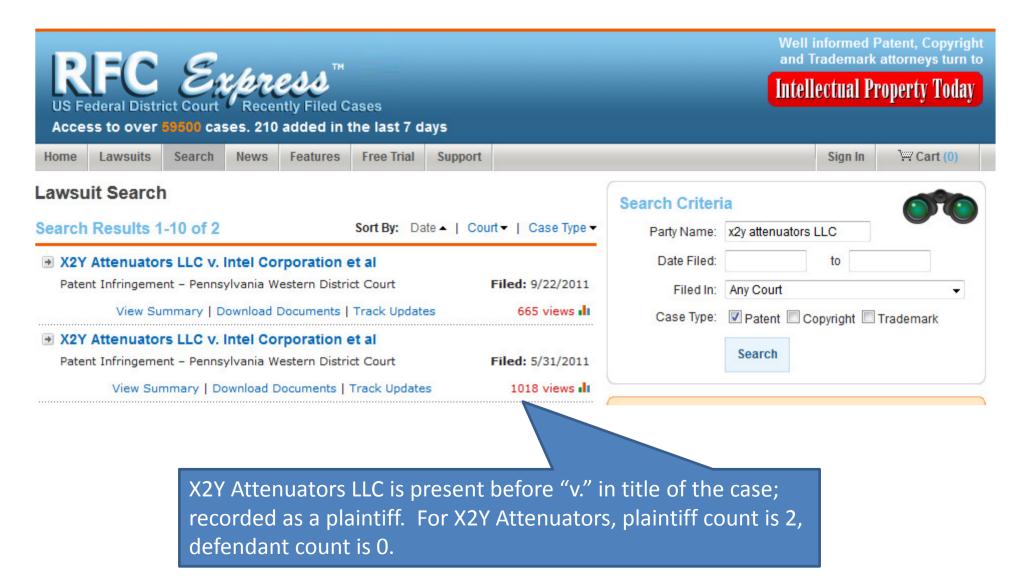
```
commercial spinnoff of technology developed in the <a href="http://lelas.edu/">integration partner researchers to pilot applications using multiple modules in the esearch.
00px; font-size: .9em;">

="http://barobo.com/wp-content/uploads/2011/03/ucd-logo.png" alt="NSF" width="200" height="110" technology developed in the Integration Engineering Laboratory at the University of California t/uploads/2011/03/NSF-Logo.png" alt="NSF" width="200" height="110" /> d by the National Science Foundation under Grant No. IIP-1047441. Any opinions, findings, and c
```

Stage 2: Litigations



 Record any litigations associated with the assignee on RFC Express (both as plaintiff, defendant).



Stage 2: 3rd party information (Bloomberg)



- Search query format:
 "X2Y Attenuators site:investing.businessweek.com"
- Validation and picking the correct link (using name and pattern matches)
- Search and records keywords like patents, IP, licensing etc.



Stage 2: Combining parameters for tagging suspects



Condition/Assignee	X2Y ATTENUATORS LLC	MAYA-SYSTEMS INC	WEB TECHNOLOGIE S LLC	EYAL RESEARCH CONSULTANT S LTD	CROSSBAR INC	SIGHTSOUND TECHNOLOGIES LLC
'Patent' + 'IP' keywords on homepage	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE
'IP' keyword on homepage + litigation plaintiff > defendant	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE
Number of links < 15 + 'Patent' keyword	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
Number of links < 15 + 'licens*' in Bloomberg description	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
Keyword 'Patent' in Bloomberg description	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE
Litigation as plaintiff > (defendant +2)	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE

Stage 2: Combining parameters for tagging suspects



Suspects tagged using the website, litigation, Bloomberg data related parameters combined

AISIN	2EIKI	CO	LID

AGILENT TECHNOLOGIES INC

AIDA ENGINEERING LTD

A123 SYSTEMS INC

CLEMSON UNIVERSITY

CITIZENS BANK OF PENNSYLVANIA

COMERICA BANK

INVENSYS CORP

AETERNA ZENTARIS LTD

TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY

OF NEW YORK

AIR PRODUCTS AND CHEMICALS INC

INTERDIGITAL

INTELLECTUAL VENTURES HOLDING LLC

MAPLE VISION TECHNOLOGIES INC

ACCELLENT INC

CPA GLOBAL PATENT RESEARCH LTD

HELYSSEN SARL

SIGHTSOUND TECHNOLOGIES LLC

ADAPTIVE MATERIALS INC

ABLECO FINANCE LLC A DELAWARE

MAQUIS TECHTRIX LLC

ADETHERAPEUTICS INC

OPEN INVENTION NETWORK LLC

ACERGY FRANCE SA

X2Y ATTENUATORS LLC

UNILOC

ACADEMIXDIRECT INC

MAYA-SYSTEMS INC

ALNYLAM EUROPE AG

CROSSBAR INC

ADENIUM BIOTECH APS

KILOPASS TECHNOLOGY INC

ACTAVIS GROUP PTC EHF

ACTIVEVIDEO NETWORKS INC

EYAL RESEARCH CONSULTANTS LTD

NASOPHLEX B.V

PERSONALWEB TECHNOLOGIES LLC

TALON RESEARCH LLC

PRINCETON DIGITAL IMAGE CORP

ADA ENVIRONMENTAL SOLUTIONS LLC

MEDIA SOURCERY INC

AMBERWAVE SYSTEMS CORP

HEADWATER PARTNERS I LLC

AD-FIN SPA

TERRA NOVA NURSERIES INC

MOTILITY SYSTEMS

FERGASON PATENT PROPERTIES LLC

Processing assignees with no direct suspicious data



- Web search query used for this step is <company name > + patents OR intellectual property licensing
- Links in top 10 results which don't have patent in link or in title are visited (usually patent research websites).
- Algorithm looks for cases where assignee name is mentioned in vicinity (300 chars) of words like patent, IP, known large NPE's etc.
- Every word in dataset related to NPE business has been given some weight. Every assignee gets score based on words observed in the vicinity and thresholds applied.

The U.S. Patent & Trademark Office has no record of Thalveg Data Flow. Nor does California's business registry. The only mention of the company is in Net Perceptions' SEC filings.

Thalveg, it turns out, is a shell company, sister to others with names ike Orange Computer, Purple Mountain Server and Maquis Techtrix. They are all controlled by a venture capital firm called Intellectual Ventures, based in Bellevue, Wash. Donnelly never questioned Detk credentials or his interest in the patents, but lately a lot of people in high-tech circles are beginning to wonder what Intellectual Ventures is up to.

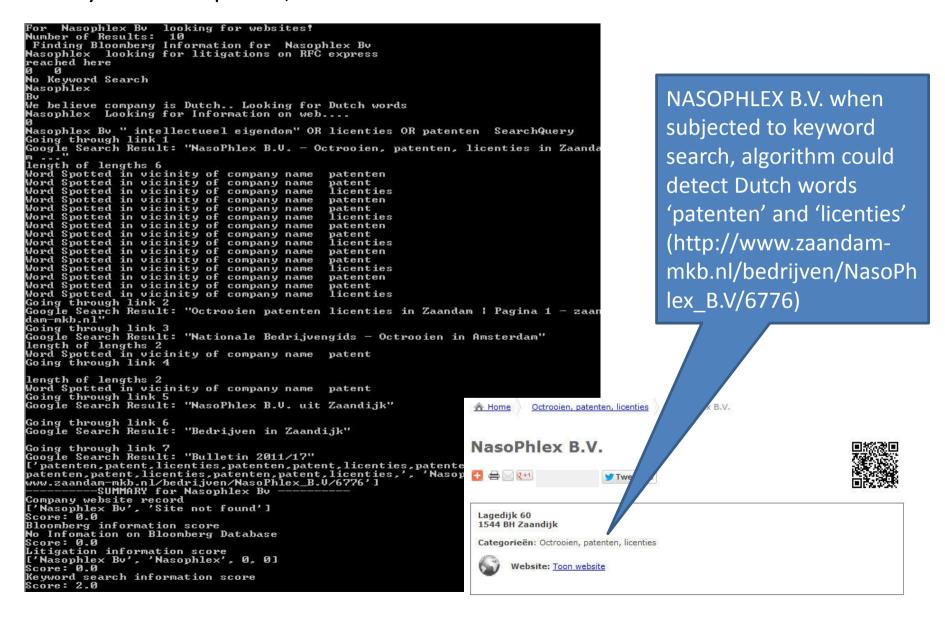
The answer lies inside the mop-topped head of polymath Nathan Myhrvold, the chief executive of Intellectual Ventures, who gained fame and wealth in his 14 years at Microsoft, retiring as chief technology officer in 2000. Myhrvold started Intellectual Ventures with his friend Edward Jung right after they left Microsoft. Three years ago they hired

There is no website for Maquis Techtrix LLC, no Bloomberg description and no litigation case. Algorithm detected a source relating it with known NPE, IV. (http://www.forbes.com/free_forbes/2005/1114/166.html)

Processing assignees with no direct information



 Non English websites are processed in the native language, to check for keywords like patent, IP etc.



Results



NPEs

INTERDIGITAL

INTELLECTUAL VENTURES HOLDING LLC

MAPLE VISION

TECHNOLOGIES INC

Non NPEs	
NOII INFLS	
AISIN SEIKI CO LTD	ADAPTIVE MATERIALS INC
AGILENT TECHNOLOGIES INC	ABLECO FINANCE LLC A DELAWARE
AIDA ENGINEERING LTD	ADETHERAPEUTICS INC
A123 SYSTEMS INC	ACERGY FRANCE SA
CLEMSON UNIVERSITY	ACADEMIXDIRECT INC
CITIZENS BANK OF PENNSYLVANIA	ADENIUM BIOTECH APS
COMERICA BANK	ACTAVIS GROUP PTC EHF
AETERNA ZENTARIS LTD	ACTIVEVIDEO NETWORKS INC
TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK	ADA ENVIRONMENTAL SOLUTIONS LLC
AIR PRODUCTS AND CHEMICALS INC	AD-FIN SPA
ACCELLENT INC	HELYSSEN SARL

Suspects				
INVENSYS CORP	TALON RESEARCH LLC			
CPA GLOBAL PATENT RESEARCH LTD	PRINCETON DIGITAL IMAGE CORP			
SIGHTSOUND TECHNOLOGIES LLC	MEDIA SOURCERY INC			
MAQUIS TECHTRIX LLC	AMBERWAVE SYSTEMS CORP			
OPEN INVENTION NETWORK LLC	HEADWATER PARTNERS I LLC			
UNILOC	TERRA NOVA NURSERIES INC			
MAYA-SYSTEMS INC	MOTILITY SYSTEMS			
ALNYLAM EUROPE AG	FERGASON PATENT PROPERTIES LLC			
CROSSBAR INC	UNIVERSAL PREDICTION LTD			
KILOPASS TECHNOLOGY INC	X2Y ATTENUATORS LLC			
EYAL RESEARCH CONSULTANTS LTD	NASOPHLEX B.V			
PERSONALWEB TECHNOLOGIES LLC				

Subject to manual analysis (<5% of cases of original test data set)