

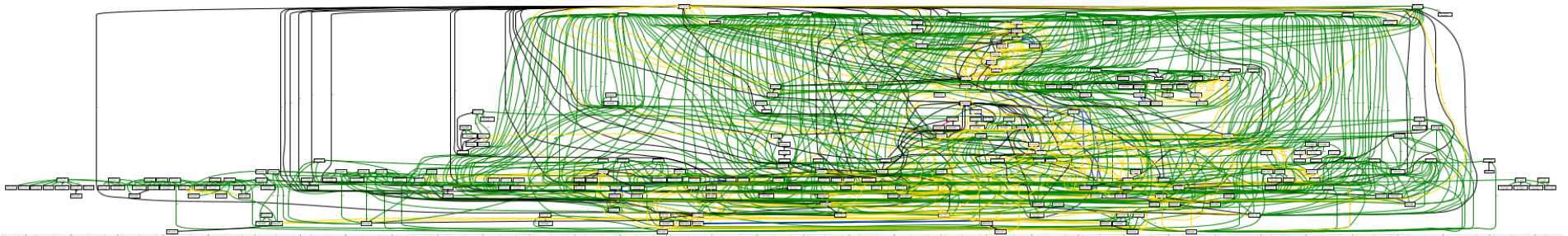


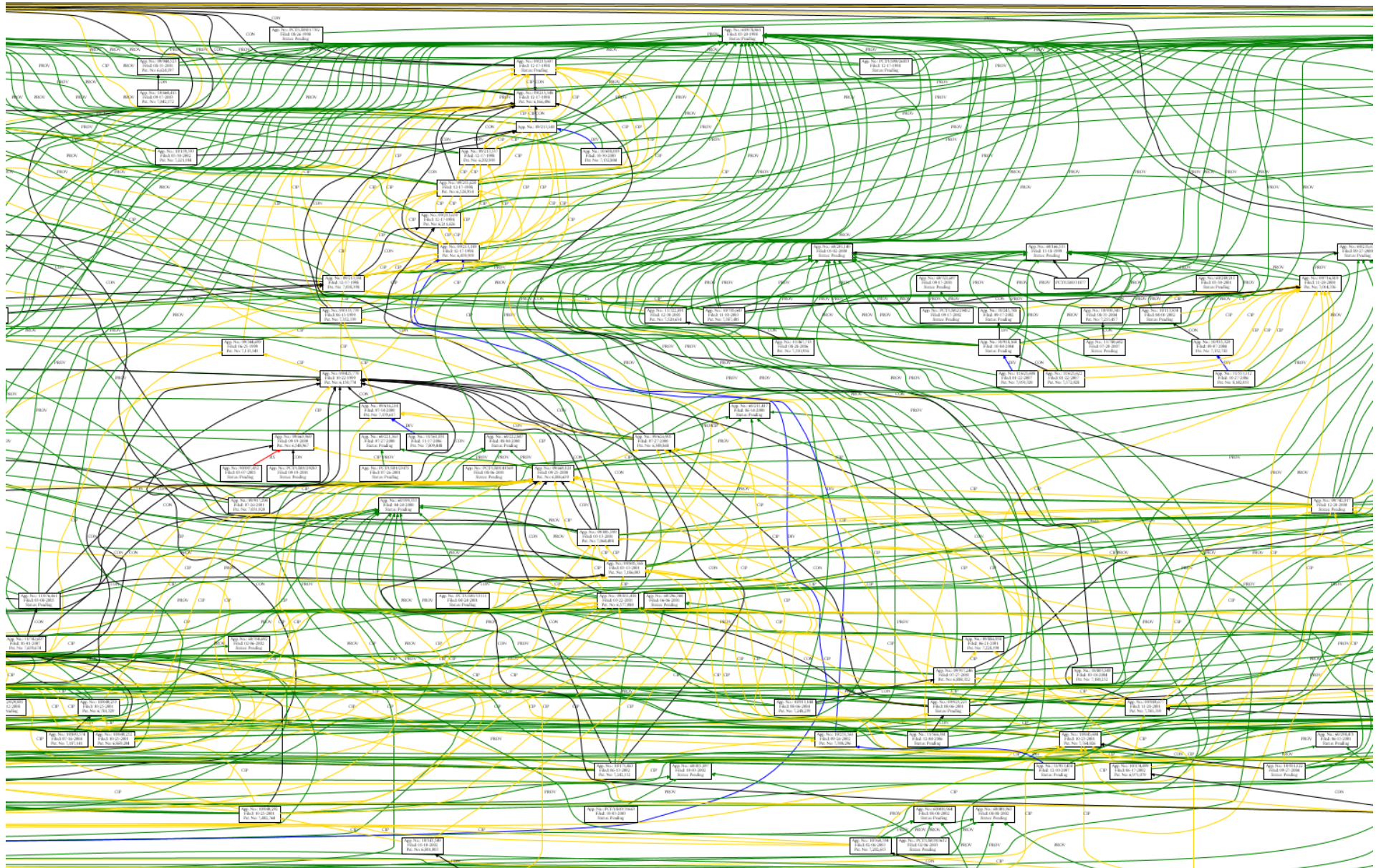
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INTELLECTUAL PROPERTY LAW

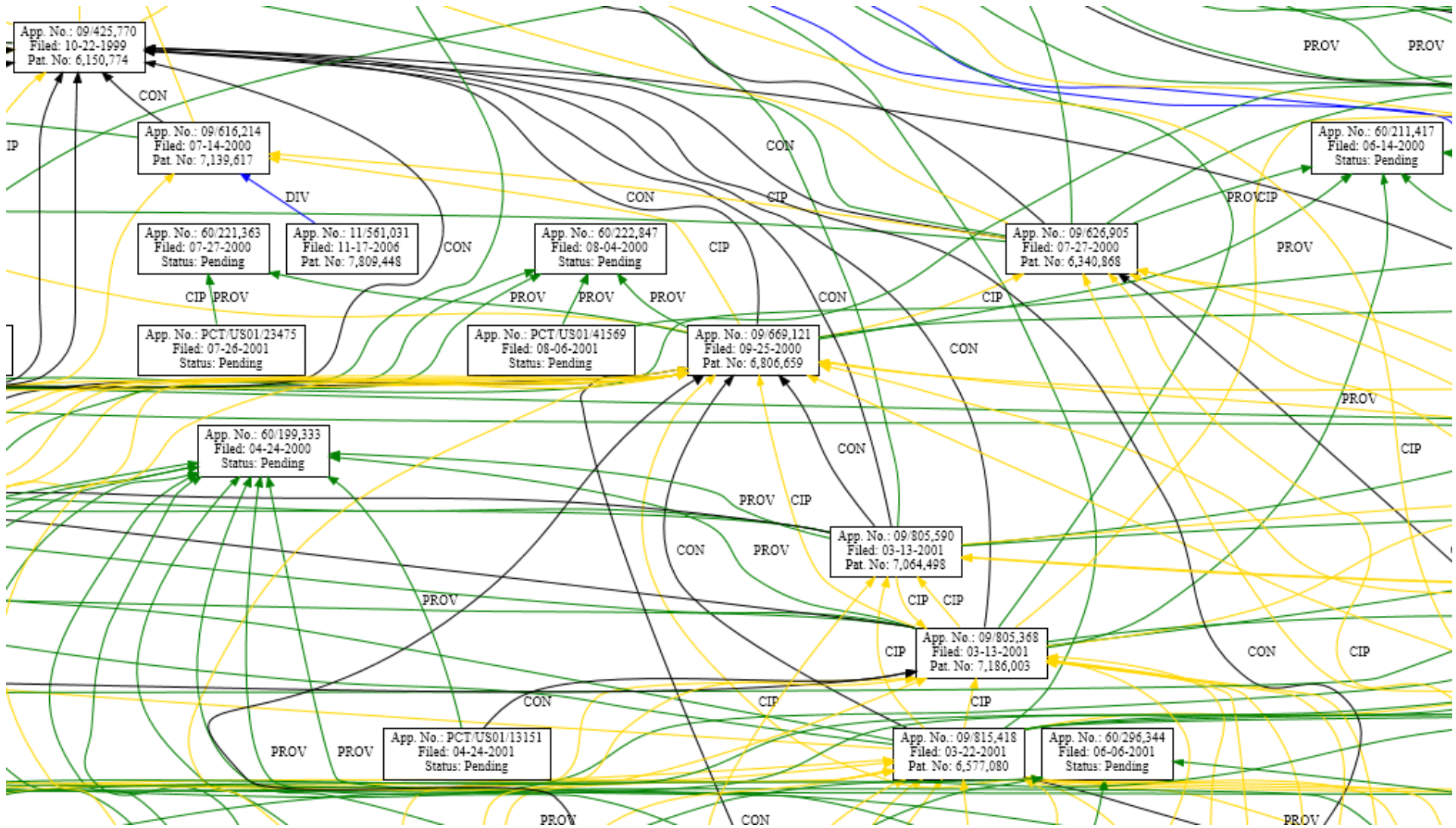
# Leveraging PatentsView's API for Better Analyses

Christopher Glembocki

*Too much information is not always a good thing*









## *I see ... colors*

- Problem is not with the data but how we attempt to interpret and use the data
- Two conventional options:
  - Paid services
    - Thomson
    - IFI Claims
  - DIY
    - Slow, sequential, per-asset data gathering
    - Adding one more asset is just a minute or two more of time spent, however ...



## *A Game of Zeros*

- For large families, assets increase by orders of magnitude (x10, not +1)
- How many zeros need to be added to the number of assets to check before conventional data gathering becomes impossible for a company or law firm?
  - 1 asset = 1 minute/person
  - 10 assets = 10 minutes/person
  - 1000 assets = really?
  - 10,000 assets = enough staff to accomplish in a month?

## *Before using PatentsView.org*

- Find all family members & Block/Copy/Paste into Excel
- Scrape every screen via macros
- Free services
  - USPTO
  - Google patents
  - Espacenet
- Paid services
  - Thomson
  - IFI Claims

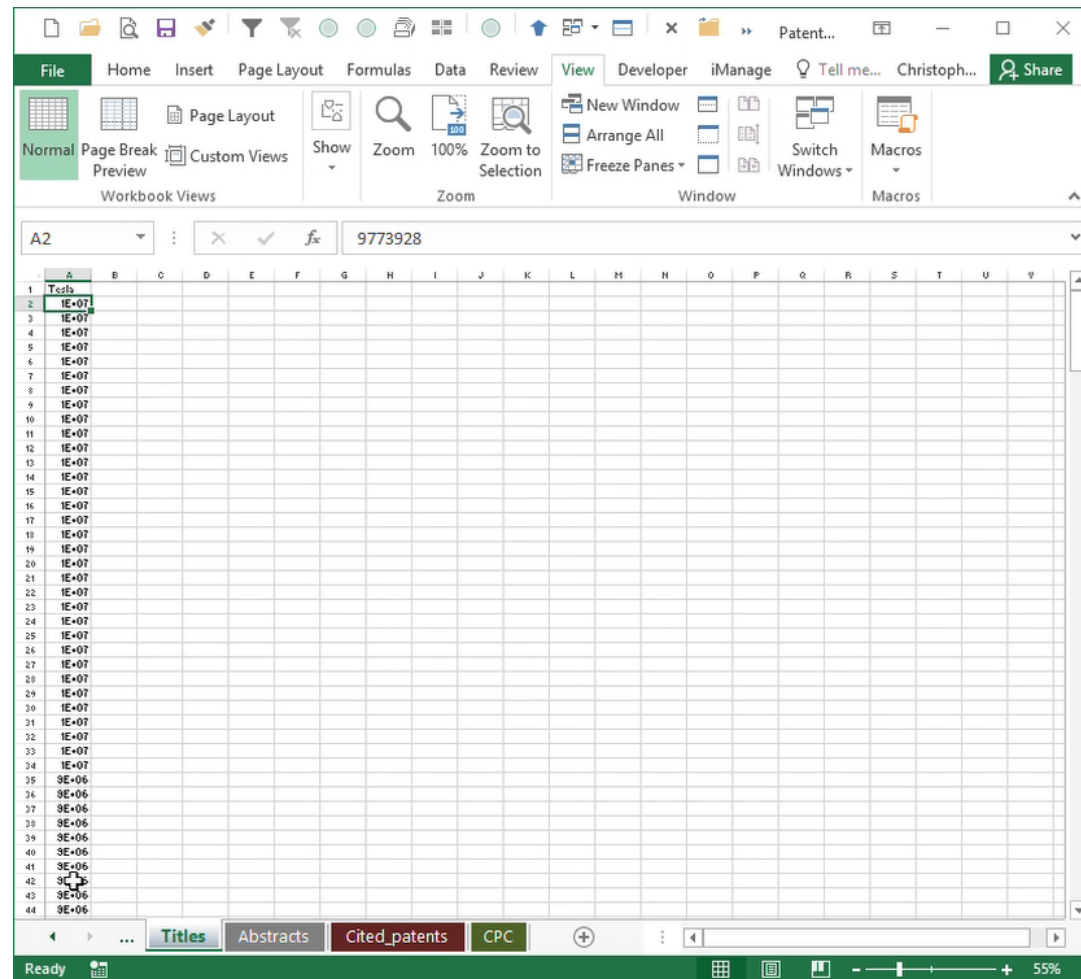


## *Using PatentsView.org*

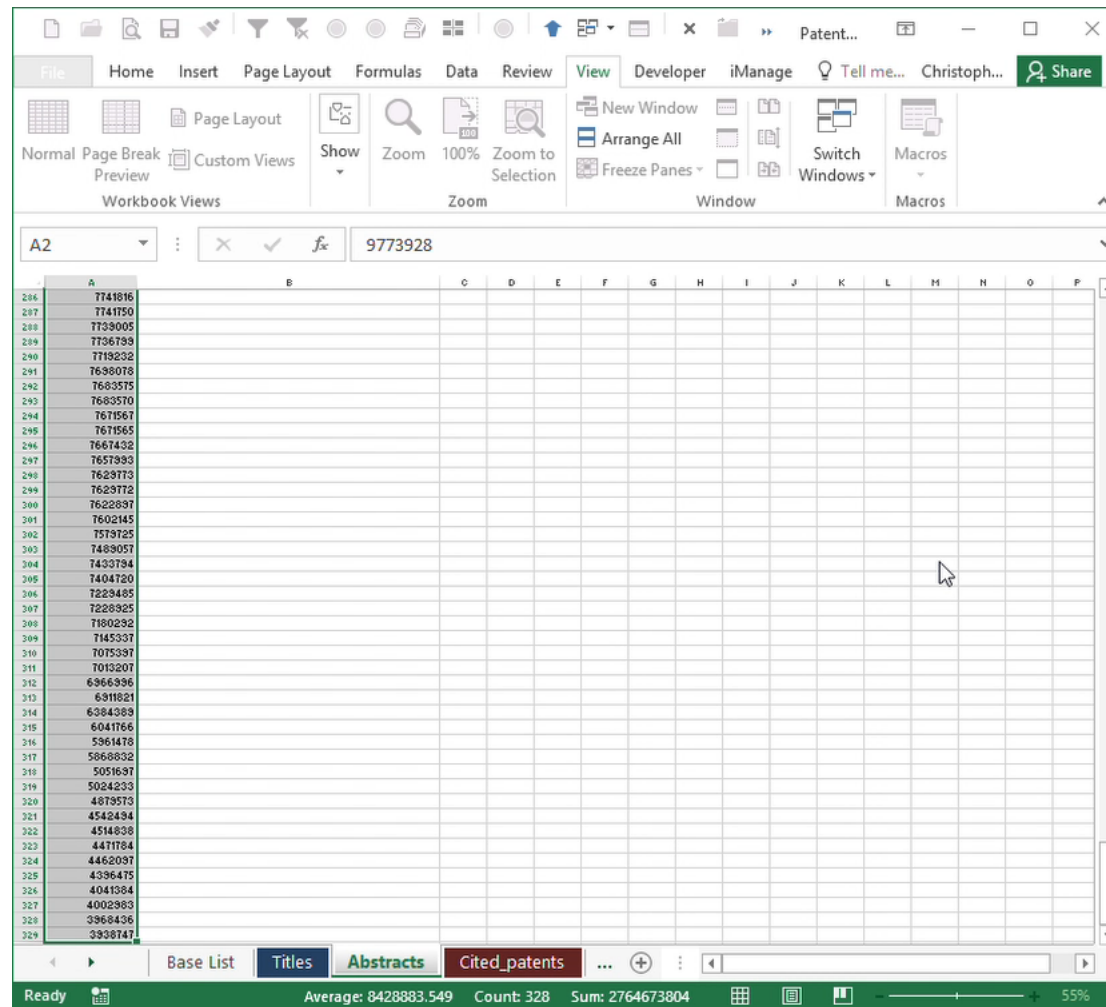
- One search = Bundled results
- API = get exactly what you need, when you need it



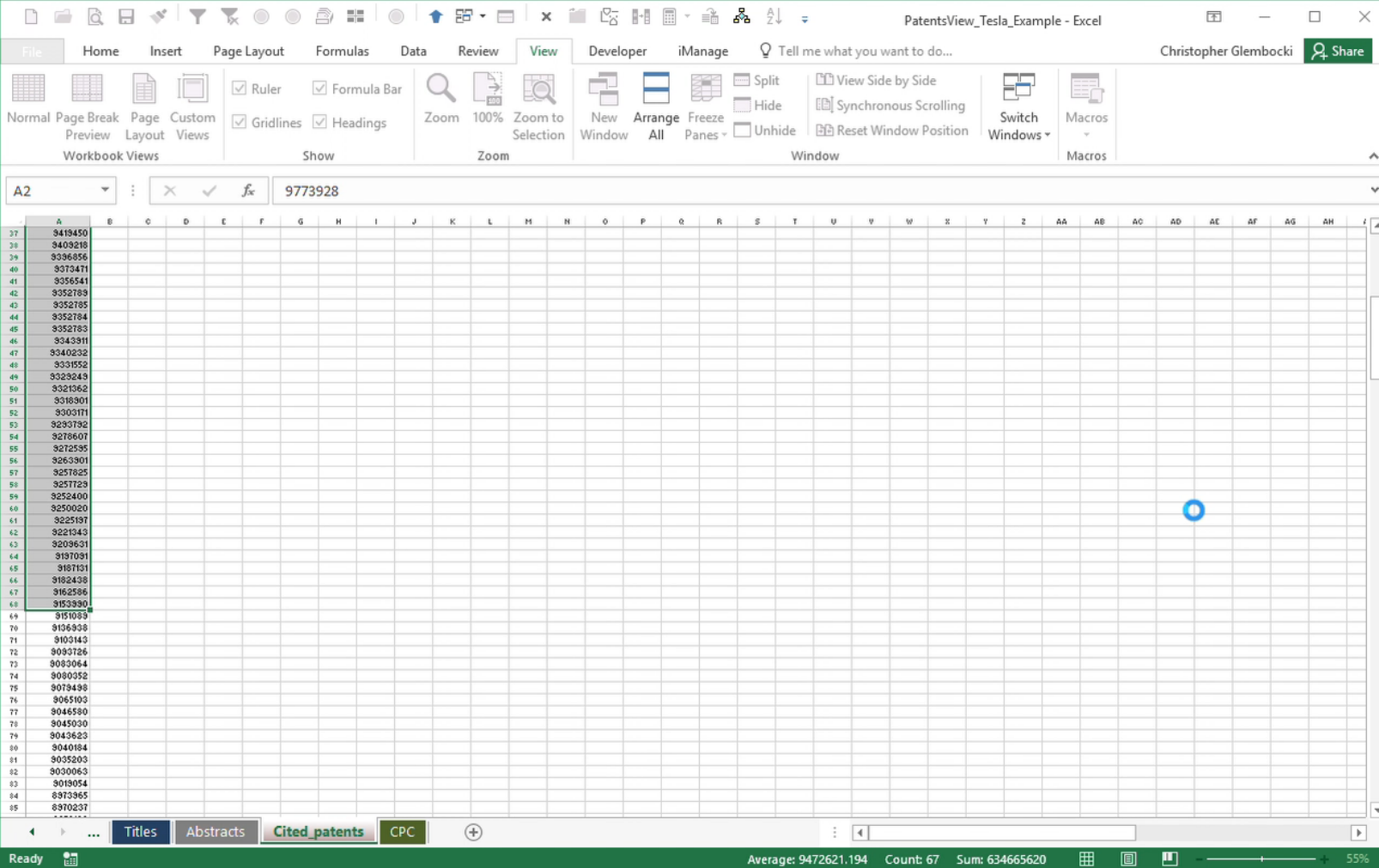
# Extracting Titles from PatentsView.org



# Extracting Abstracts



# Extracting Cited Patents

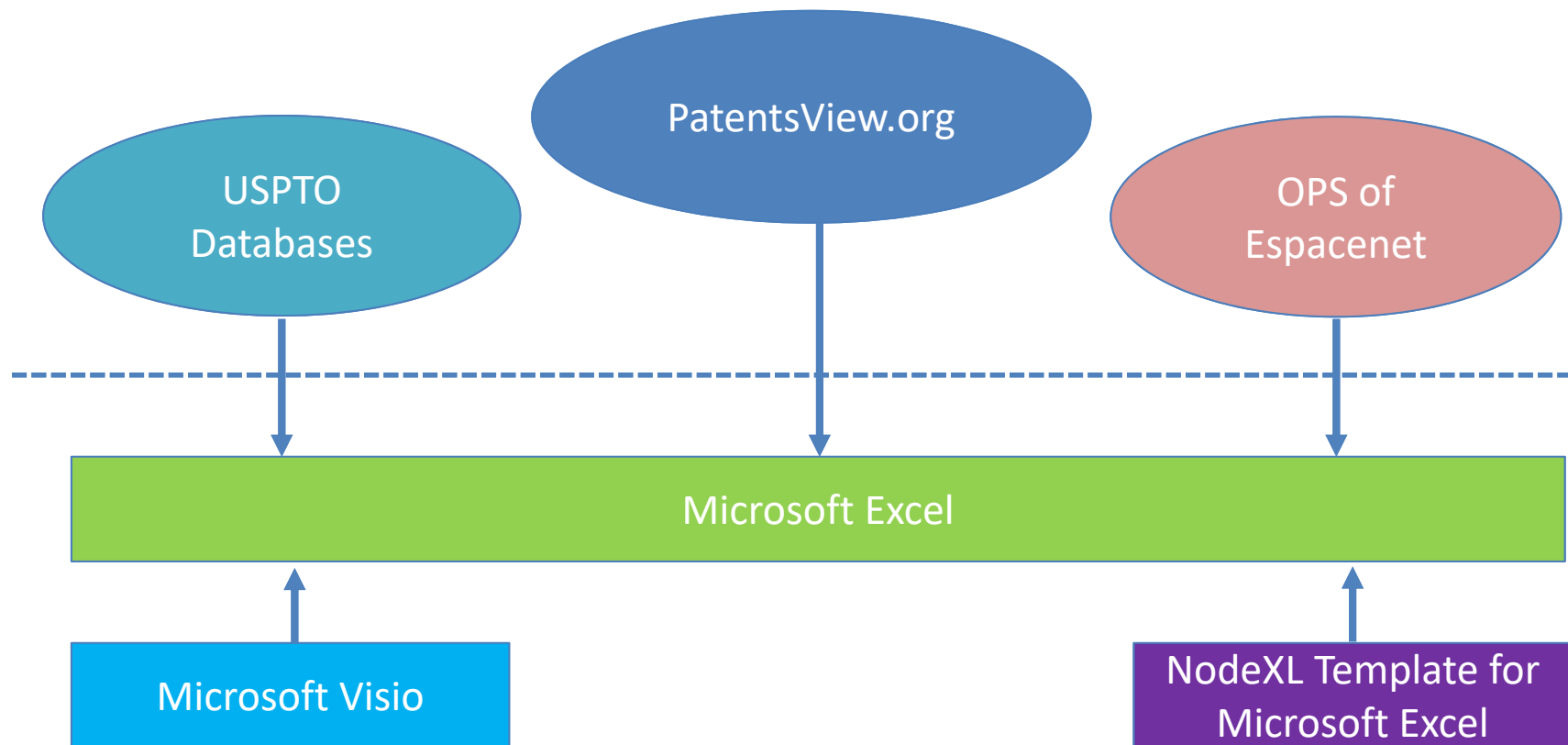


The screenshot shows an Excel spreadsheet with the following data in column A:

Row	Patent Number
27	3419450
28	3409218
29	3336356
40	3373471
41	3355541
42	3352783
43	3352785
44	3352784
45	3352783
46	3343311
47	3340232
48	3331552
49	3323243
50	3321362
51	3318301
52	3303171
53	3293732
54	3278607
55	3272535
56	3263301
57	3257825
58	3257723
59	3252400
60	3250020
61	3225197
62	3221343
63	3203631
64	3197091
65	3187131
66	3182438
67	3162586
68	3153390
69	3151033
70	3136338
71	3103143
72	3093726
73	3083064
74	3080352
75	3079498
76	3065103
77	3046590
78	3045090
79	3043623
80	3040184
81	3035203
82	3030063
83	3019054
84	8973965
85	8970237

The Excel interface shows the 'View' ribbon with options like Ruler, Formula Bar, Zoom, and Window. The status bar at the bottom indicates 'Average: 9472621.194 Count: 67 Sum: 634665620'.

# Integrates well with other datasets and commonly available software

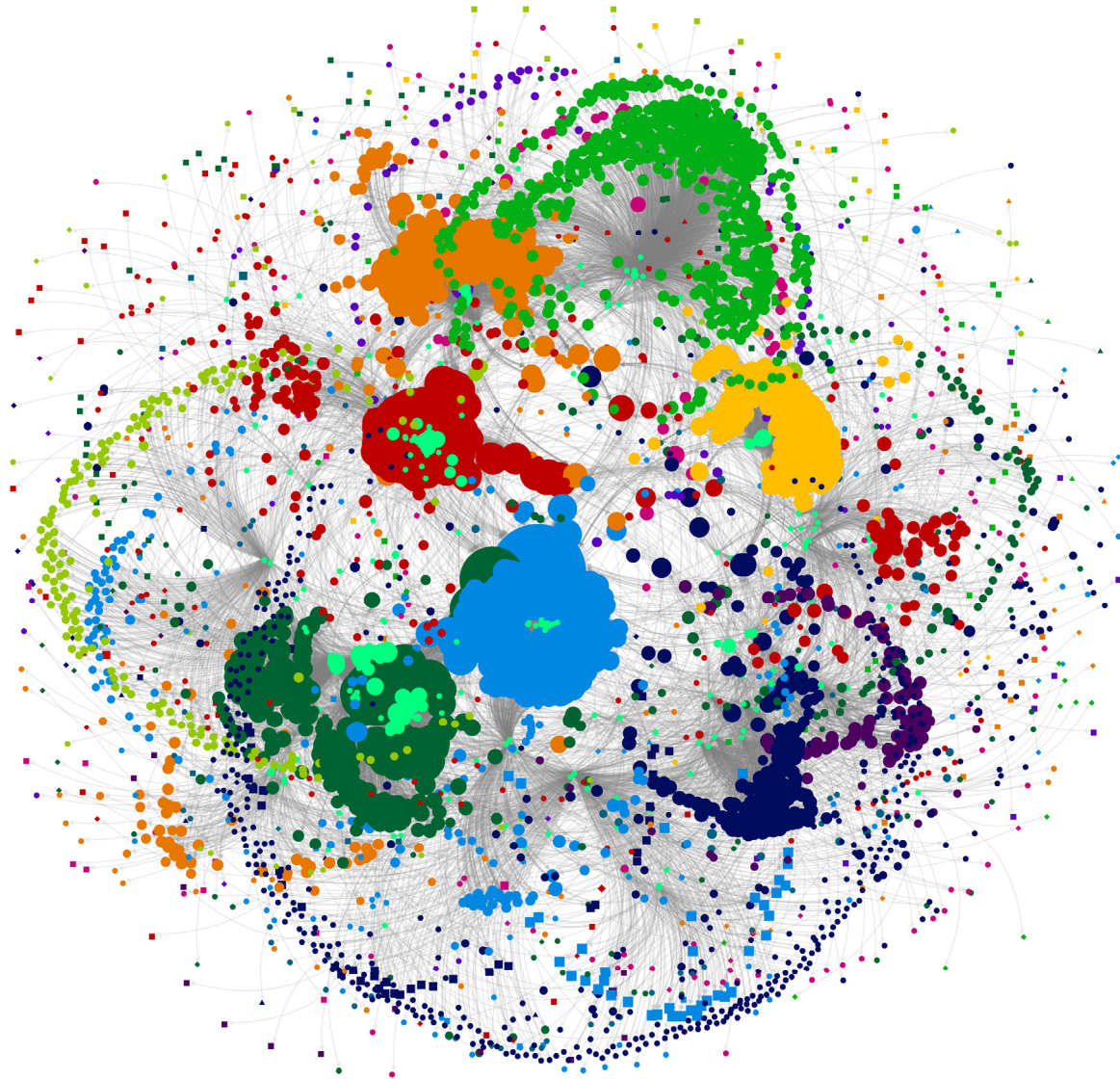


## Add in Data from Other Sources

- US Patents
  - <http://patft.uspto.gov/netahtml/PTO/...>
- US Publications
  - <http://appft.uspto.gov/netahtml/PTO/...>
- OPS from Espacenet
  - <https://worldwide.espacenet.com/>
- Global Dossier
  - USPTO Portal or Espacenet Portal
- WIPO
  - <https://patentscope.wipo.int/search/en/search.jsf>
- CCD
  - <http://ccd.fiveipoffices.org/CCD-2.0.4/>

# Permits Clustering Analyses



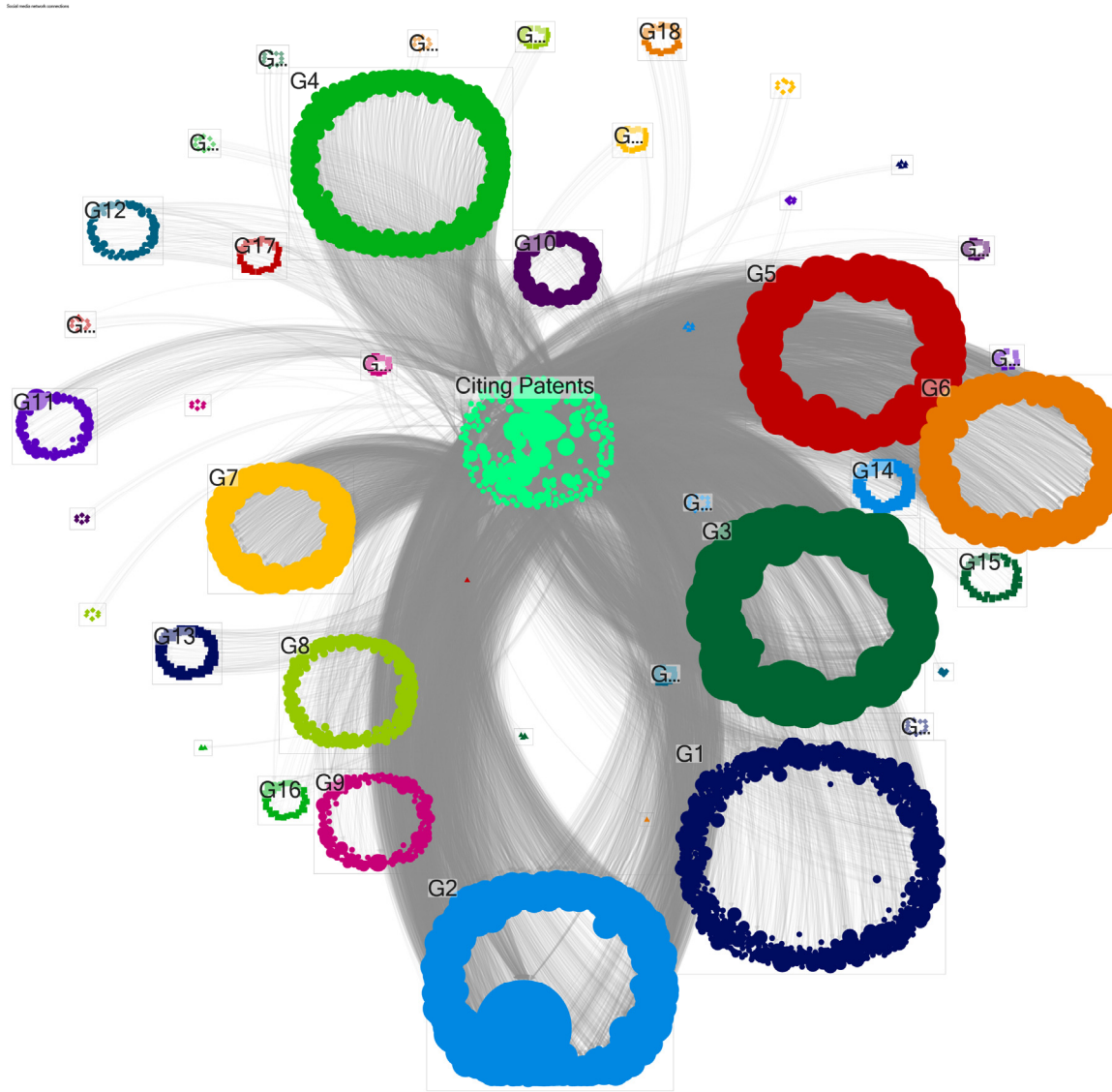


Created with NodeXL, NodeXL (http://nodexl.com/) from the Social Media Research Foundation (http://www.srmf.com/)



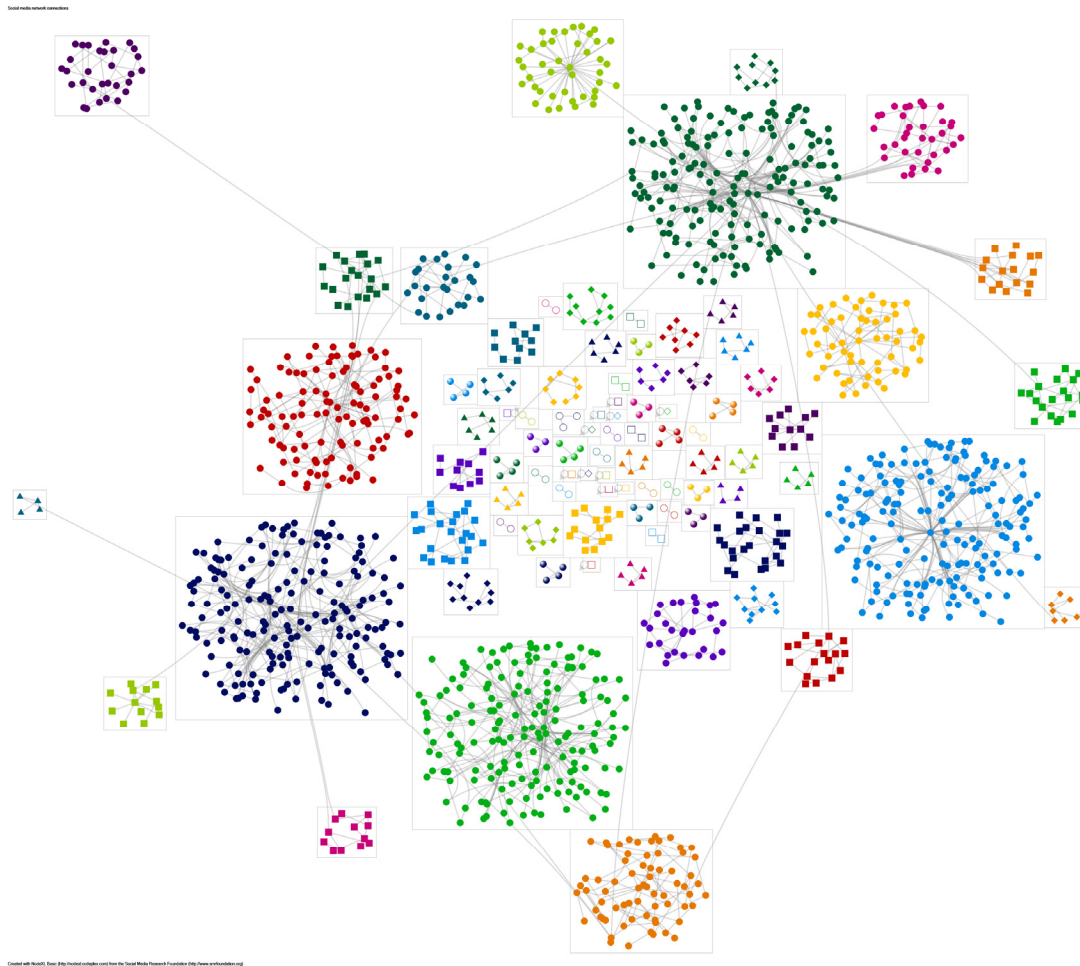
Created with NodeXL, Beta (http://nodexl.com) from the Social Media Research Foundation (http://www.smarfoundation.org)



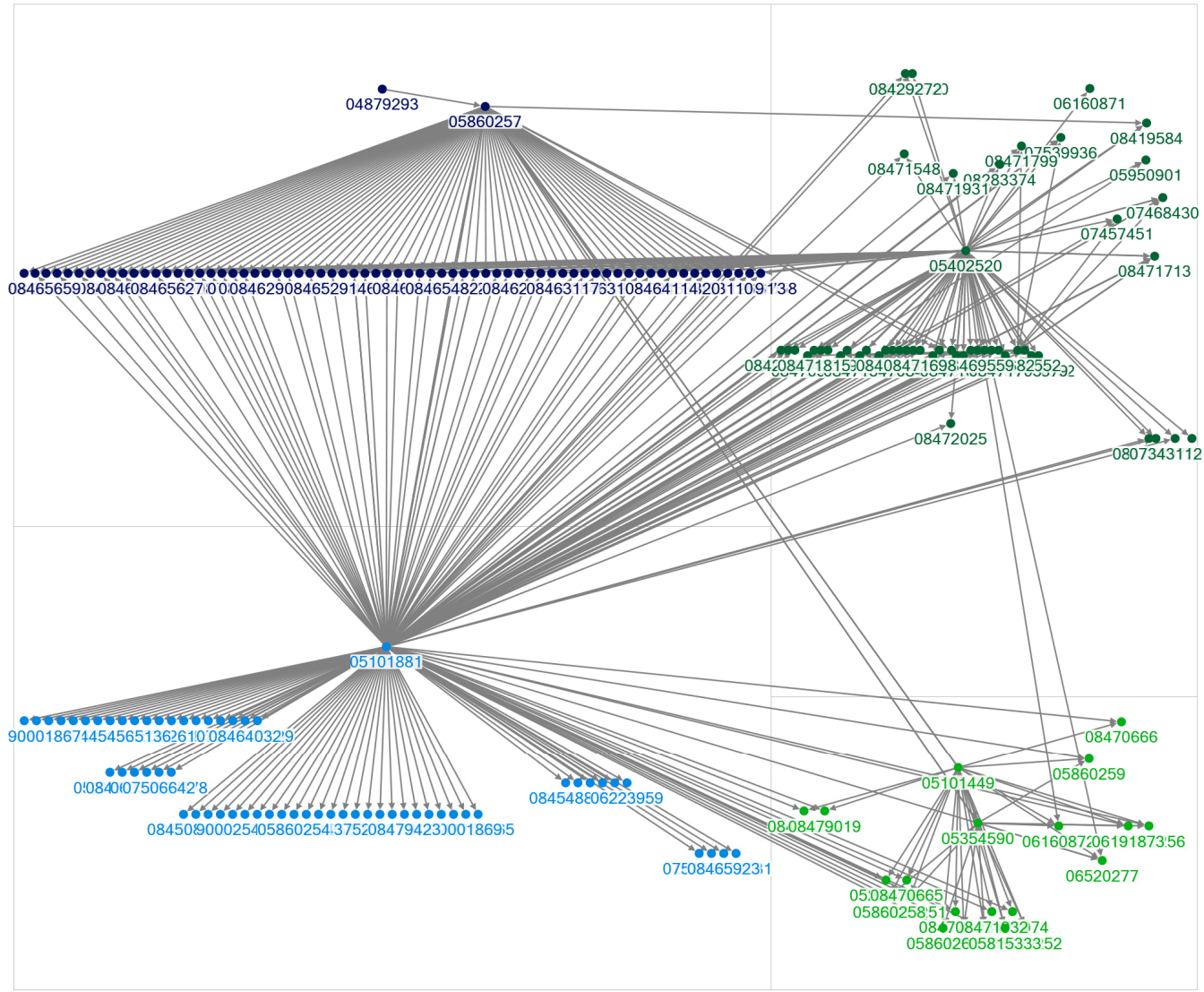


Created with Visio, data from the Social Media Research Foundation (<http://www.smfoundation.org>)

# No More All-or-Nothing Patent Families

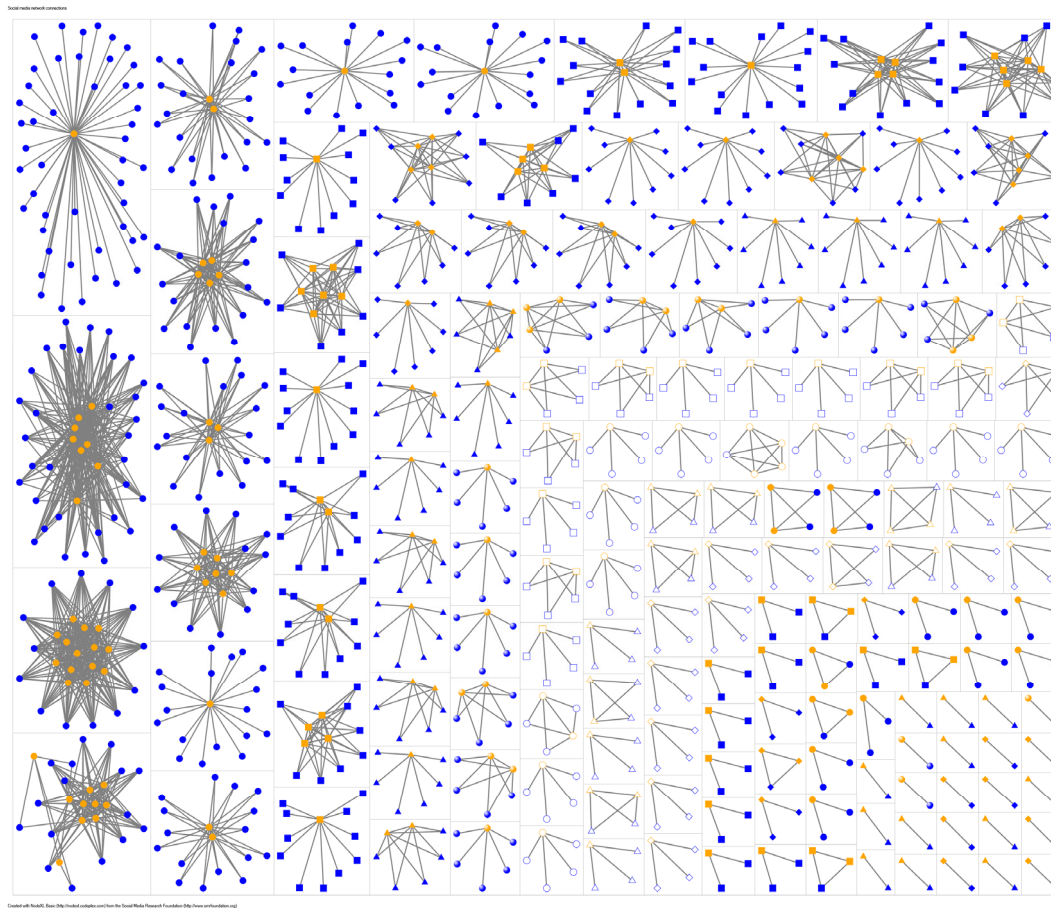


Social media network connections



Created with NodeXL Basic (<http://nodexl.codeplex.com>) from the Social Media Research Foundation (<http://www.smrffoundation.org>)

# Add in Equivalency from OPS (Open Patent Services from Espacenet.com)





## *A modest wish list*

- Weekly updates (currently twice a year)
- Expand to include US Patent Publications
- Leverage interface to permit access to other USPTO datasets
  - Global Dossier
    - Just a lookup, needs search capability
  - Assignment
    - Uses difficult-to-integrate attribute-based XML instead of easier-to-integrate element-based XML
  - PAIR Bulk Data (PBD)
  - Patent Examiner Data System (PEDS)
  - New Text and XML items from Private PAIR

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