

The Federal Circuit Dataset Project

August 2022 Update

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The logo for the University of Iowa College of Law, featuring the word "IOWA" in a bold, yellow, sans-serif font.

College of Law

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Want to see the slides close-up?

<https://tinyurl.com/2s3szas7>



What is the Federal Circuit Dataset Project?

What is the Federal Circuit Dataset Project?

The FCDP is a set of related datasets containing information about appeals to the United States Court of Appeals for the Federal Circuit. It is publicly accessible and designed for empirical research.

Two related data sets:

- Document dataset: contains all documents posted to the court's website (opinions since 2004 and Rule 36 affirmances since 2007), appeal docket numbers since 2000, and detailed coding about the court's decisions. The document dataset was previously released as the Compendium of Federal Circuit Decisions.
- PDFs of all documents are linked in the dataset. These documents are stored in a cloud repository.
- Preliminary extracted text is available as well, but not in the public set.

Two related data sets

- Appeal docket dataset: A dataset of all appeals docketed at the Federal Circuit since 2000, collected from PACER. Additional information, such as origin and lower tribunal docket number, available for post-2011 appeals.

Available data

Document Dataset

- Document date
- Detailed origin
- Precedential status
- Document type
- Dispute type
- Panel members
- Opinion types & authors
- Disposition
- Replaced status
- Associated appeal dockets (10-character format)
- Patents-in-suit (preliminary)
- Issues (patent law)
- Appellant type
- Detailed information on writs and permission to appeal
- CloudLink (link to document)

Docket Dataset

- PACER_ID
- Docket title
- Date appeal filed
- Origin
- Originating case docket number
- Appeal Docket number (10-character format)

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Note: many-to-many relationship (but can be simplified to one to many for most uses)

Table 8: Federal Circuit Disposition in Opinions and Rule 36 Summary Affirmances by Origin, 2008-2021

+

origin	Affirmed	<u>Affirme..</u>	Dismissed	Other	Reversed	Vacated	Total
BCA	105	10	3	0	16	4	138
CAVC	559	54	456	5	51	55	1,180
CFC	959	89	13	1	118	40	1,220
CIT	266	34	2	2	47	24	375
DCT	1,801	415	32	11	245	179	2,683
ITC	74	12	1	1	14	4	106
MSPB	1,563	38	36	3	45	76	1,761
Other	55	3	7	15	3	1	84
PTO	1,473	151	29	5	97	124	1,879
Total	6,855	806	579	43	636	507	9,426

Table 9: General Dispositions in Federal Circuit Decisions, 2008-2021

origin	Percent Affirmed	Percent Affirmed-in-Part	Percent Reversed or Vacated
BCA	78%	7%	15%
CAVC	78%	8%	15%
CFC	80%	7%	13%
CIT	72%	9%	19%
DCT	68%	16%	16%
ITC	71%	12%	17%
MSPB	91%	2%	7%
Other	89%	5%	6%
PTO	80%	8%	12%
<i>Total</i>	<i>78%</i>	<i>9%</i>	<i>13%</i>

Where can you access the Federal Circuit Dataset?

1. empirical.law.uiowa.edu: Easy to use format; can generate your own graphs.

2. CAFC Dataset Dataverse: Archived research datasets on the Harvard Dataverse; released 1-2x per year.
https://dataverse.harvard.edu/dataverse/CAFC_Dataset_Project

ID	Case Date	Origin	Case Name	Precedential Status	Document Type	Patents in Suit
10057	2004-10-13	DCT	ON-LINE TECHNOLOGIES V. BODENSEEWEIN FERN-ELMER GMBH, ET AL.	Precedential	Opinion	5,440,143
10058	2004-10-20	DCT	BERNHARDT, L.L.C., V. COLLEDONE EUROPA USA, INC.	Precedential	Opinion	D438,727; D439,763; D441,560; D441,975; D439,770; D441,980
10059	2004-10-25	DCT	CAPO, INC. V. DIOPHTICS MEDICAL PRODUCTS, INC.	Precedential	Opinion	
10060	2004-10-28	DCT	CATERPILLAR V. STURMAN INDUS.	Precedential	Opinion	5,460,329; 5,640,987; 5,479,901
10061	2004-10-29	DCT	C.R. BARD, ET AL. V. U.S. SURGICAL CORP.	Precedential	Opinion	5,356,432
10062	2004-11-03	DCT	COLIDA V. MATSUHITA ELECTRIC CORP. FOR AMERICA	Nonprecedential	Opinion	D321,347; D321,349
10063	2004-11-05	DCT	IN RE VIOLETION OF RULE 28(C)	Precedential	Order	
10064	2004-11-09	DCT	THE REGENTS OF THE UNIVERSITY OF NEW MEXICO V. KNIGHT, ET AL.	Nonprecedential	Opinion	
10065	2004-11-17	DCT	MEDPONTE HEALTHCARE, INC. V. HI-TECH PHARMACEUTICAL CO., INC.	Nonprecedential	Opinion	6,417,206
10066	2004-11-19	DCT	CATALINA MARKETING INTERNATIONAL, INC. V. COOLSAVINGS.COM, INC., ET AL.	Nonprecedential	Opinion	4,674,041

Harvard Dataverse

Federal Circuit Dataset Project

(University of Iowa)

Harvard Dataverse >

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1 to 6 of 6 Results

- Replication Data for Who Appeals Patent Cases **Open Unpublished**
Jun 30, 2022
Rantanen, Jason, 2022, "Replication Data for Who Appeals Patent Cases", <https://doi.org/10.7910/DVN/FNEYRE>, Harvard Dataverse, DRAFT VERSION, UNF:6Z9YNL4GSRTH6+HANE4== [BANKF]
Replication data and code for Who Appeals Patent Cases.
- Replication Data for Extraordinary Writ or Ordinary Remedy? Mandamus at the Federal Circuit? **Open Unpublished**
May 07, 2022
Rantanen, Jason, 2022, "Replication Data for Extraordinary Writ or Ordinary Remedy? Mandamus at the Federal Circuit", <https://doi.org/10.7910/DVN/AGZDNH>, Harvard Dataverse, DRAFT VERSION, UNF:6P0J0UBR8tg+9y6wF4EQ== [BANKF]
Replication data for J. Jonas Anderson, Paul Duglizza & Jason Rantanen, Extraordinary Writ or Ordinary Remedy, Mandamus at the Federal Circuit.
- Replication Code for Federal Circuit Statistics Package: 2021 Update
Jan 10, 2022
Rantanen, Jason, 2022, "Replication Code for Federal Circuit Statistics Package: 2021 Update", <https://doi.org/10.7910/DVN/6ZGZQA>, Harvard Dataverse, V1
This file contains the State replication code for the 2021 Federal Circuit statistics update.
- Federal Circuit Document Dataset
Jan 10, 2022
Rantanen, Jason, 2021, "Federal Circuit Document Dataset", <https://doi.org/10.7910/DVN/UGZDF7>, Harvard Dataverse, V0, UNF:6Z8BfCH9VQ6S-QmZ6w== [BANKF]
Document dataset for the Federal Circuit Dataset Project. Keyed to Docketset using the Appeal_Dockets field.
- Federal Circuit Docket Dataset
Jan 10, 2022
Rantanen, Jason, 2021, "Federal Circuit Docket Dataset", <https://doi.org/10.7910/DVN/6KQD9H>, Harvard Dataverse, V0, UNF:6KAG29B8079+T8EY956A== [BANKF]
This dataset consists of information about all docketed appeals at the United States Court of Appeals for the Federal Circuit.

Summer 2022 Update: Combining district court and appellate data

Federal Circuit Decisions Database

Filter Display

ID	Case Date	Origin	Case Name	Precedential Status	Relevant Type	Patents in Suit
1007	2004-10-13	DCt	ONLINE TECHNOLOGIES & BROADCASTING PERFORMING ARTISTS, ET AL.	Precedential	Opinion	1,460,140
1008	2004-10-20	DCt	BENNETT, LLC, V. COLLESON EUROPA USA, INC.	Precedential	Opinion	048,072; 049,765; 044,390; 044,370; 048,076; 044,380
1009	2004-10-20	DCt	CAVE, INC. V. SPORTS MEDICAL PRODUCTS, INC.	Precedential	Opinion	
1000	2004-10-28	DCt	CATERPILLAR V. STAMANN MEDICAL	Precedential	Opinion	1,460,026; 1,460,087; 1,470,000
1001	2004-10-28	DCt	C.R. BARKER ET AL. V. U.S. SURGICAL CORP.	Precedential	Opinion	1,396,420
1002	2004-11-03	DCt	COGDA V. MICROPHON ELECTRIC CORP. FOR AMERICA	Nonprecedential	Opinion	030,141; 030,143
1003	2004-11-05	DCt	THE BOARD OF THE UNIVERSITY OF NEW MEXICO V. NIGHT ET AL.	Precedential	Order	
1004	2004-11-09	DCt		Nonprecedential	Opinion	
1005	2004-11-17	DCt	MEDICITY HEALTHCARE, INC. V. HATCH PHARMACEUTICAL, INC.	Nonprecedential	Opinion	4,473,026
1006	2004-11-19	DCt	CATALAN MATERIALS INTERNATIONAL, INC. V. COLLESON EUROPA, INC. ET AL.	Nonprecedential	Opinion	4,070,041

Showing 1 to 10 of 17,400 entries

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- Patent claims research dataset
- Patent examination research dataset
- Patent litigation docket reports data**
- Trademark case files dataset
- Office action research dataset for patents

Patent Litigation Docket Reports Data

The **Patent Litigation Dataset** has been updated as of December 2019 and now contains detailed patent litigation data on 81,350 unique district court cases filed during the period 1963-2018. DCE and partners at the University of San Diego Law School collected all of the data from the Public Access to Court Electronic Records (PACER) and RECAP, an independent project designed to serve as a repository for litigation data sourced from PACER. The final output datasets, provided in six different files, include information on the litigating parties involved and their attorneys; the cause of action; the court location; important dates in the litigation history; and descriptions of all documents submitted in a given case, which cover more than 8 million separate documents contained in the case docket reports. There is also a new sixth file with hand-coded information on patent-in-suit and case type for most cases filed between 2000 and 2016.

A document describing the original data release is [available](#) and can be cited as: MACE, A., A. Tefayyes, A. Toole (2017), "Patent Litigation Data from US District Court Electronic Records (1963-2015)," USPTO Economic Working Paper No. 2017-06. Available at SSRN: <https://ssrn.com/abstract=2945299>. There is also an addendum to the original document, which describes changes to the Dataset and can be accessed below.

A document describing the hand-coded patent and case type variables can be cited as Schwartz, D., T. Scheiman, R. Miller (2019), "USPTO Patent Number and Case Code File Dataset Documentation," USPTO Economic Working Paper No. 2019-06. Available at SSRN: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3507902.

The DCE developed these data files for public use and encourage users to identify fixes and improvements. Please provide all feedback to: EconomicData@uspto.gov

Documentation

- US District Courts Patent Litigation Docket Reports Data 1963-2018
- Addendum
- USPTO Patent Number and Case Code File Dataset Documentation

Stanford Law School | NPE Litigation Database

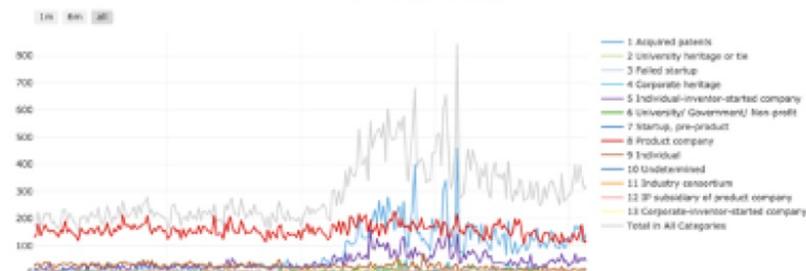
Search Cases by Code Search Cases by Parties Search Cases by Patent

Welcome to the Stanford NPE Litigation Database

The Stanford Non-Practicing Entity (NPE) Litigation Database (the Database) is the first publicly available database to track comprehensively how practicing entities, non-practicing entities, and patent assertion entities (PAEs) use patents in litigation. NPEs are entities that do not make products or offer services. PAEs—often called “patent trolls”—are NPEs that employ patents primarily to obtain license fees, rather than to support the transfer or commercialization of technology. Patent litigation by practicing entities, PAEs, and other types of NPEs including universities and early-stage startups differs in its purpose and impact on innovation, so the Database enables more sophisticated research into the working of the U.S. patent system.

To complete the Database, Stanford Law student researchers review every lawsuit filed in U.S. district courts from 2000 to the present and identify each patent plaintiff as either a practicing entity or as one of eleven types of NPE. The project report, **Who's Suing Wh? Decoding Patent Plaintiffs since 2000 with the Stanford NPE Litigation Dataset** defines the twelve categories of patent owner. It also includes descriptive statistics and trends in the share of U.S. patent litigation attributable to patent owners in each category, based on a random sample of over 10,000 lawsuits filed from 2000 to 2015. Additional information on the genesis of this project is available at <https://law.stanford.edu/projects/stanford-npe-litigation-database/>.

Number of lawsuits per category



Key Findings

1. Which patent infringement cases have appeals?

Portion of Federal Circuit appeals from the district courts that arise from patent infringement litigation

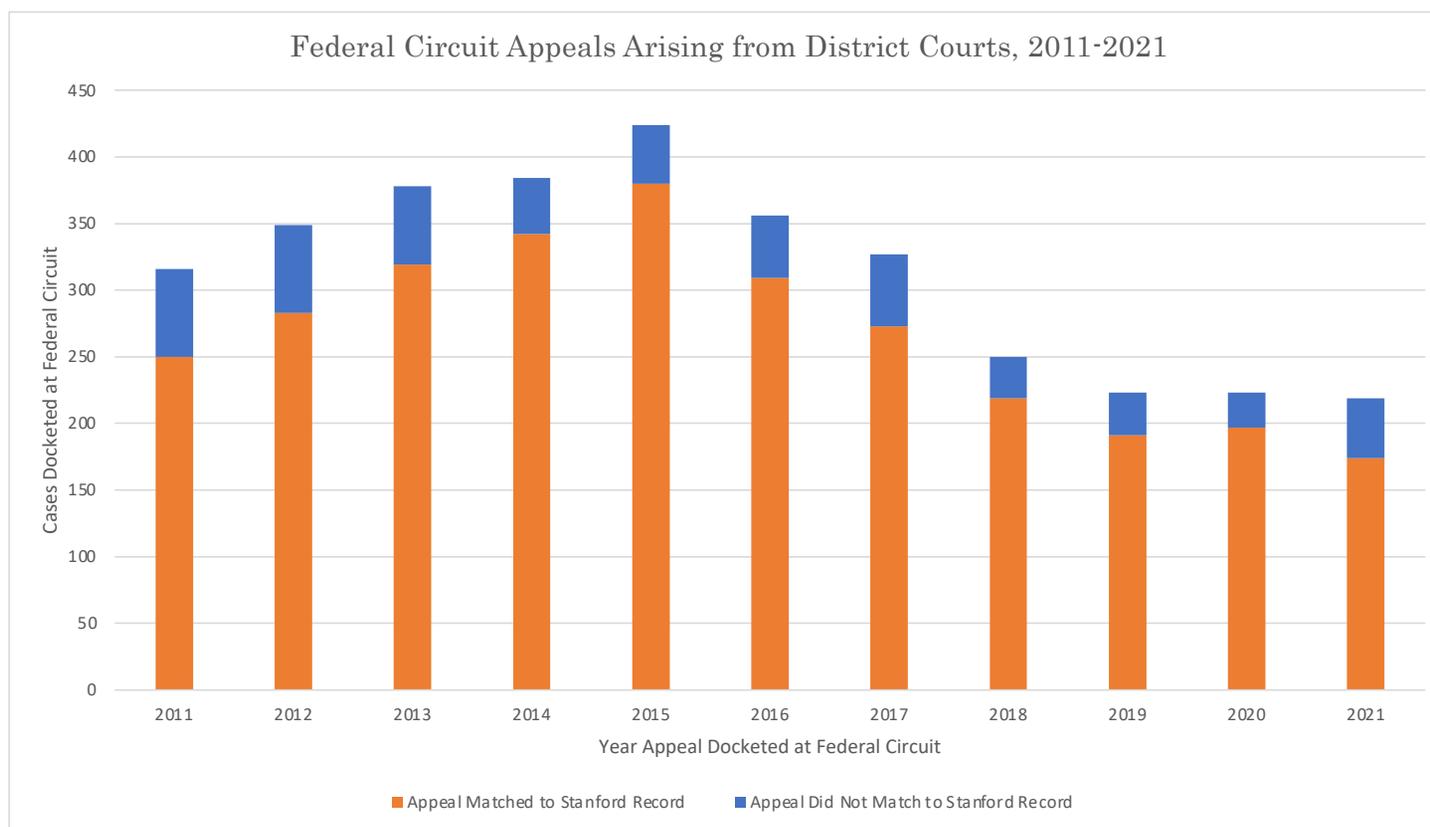


Table 10: Cases and appeals by originating district/

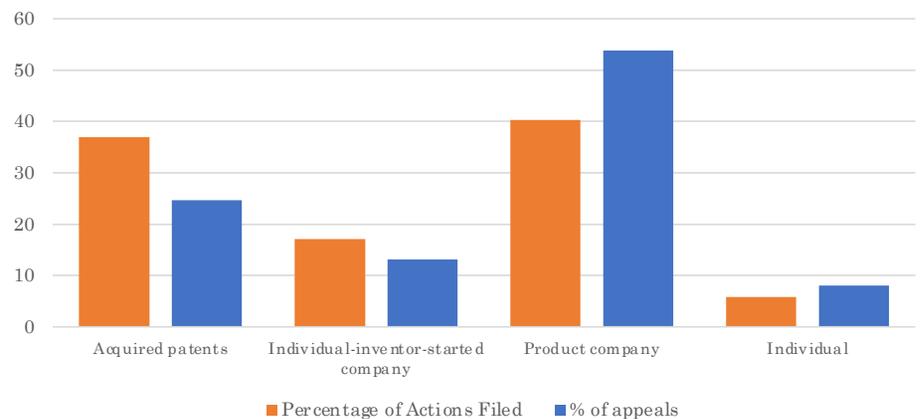
All patent infringement cases filed 2011-2016			Patent infringement cases with appeals			Percent of district court cases with an appeal
district_id	Freq.		district_id	Freq.	Percent	
txed	8,699	28.9%	ded	384	21.9%	8.3%
ded	4,651	15.4%	txed	206	11.7%	2.4%
cacd	2,065	6.9%	cand	169	9.6%	10.6%
cand	1,601	5.3%	cacd	164	9.4%	7.9%
njd	1,240	4.1%	njd	91	5.2%	7.3%
ilnd	1,202	4.0%	nysd	86	4.9%	11.0%
nysd	785	2.6%	casd	57	3.2%	8.4%
flsd	755	2.5%	ilnd	50	2.9%	4.2%
casd	679	2.3%	vaed	47	2.7%	10.8%
flmd	443	1.5%	mad	46	2.6%	10.5%
Other	7995	26.5%	Other	454	25.9%	5.7%
Total	30,115		Total	1754		5.8%

District court data source: USPTO
Patent Litigation Dataset

Who files cases with appeals?

	Category	Civil Actions Filed (2011–2016)	Percentage of civil actions	Civil Actions filed between 2011–2016 with an appeal	Percentage of civil actions with appeals
1	Acquired patents	11253	36.96	421	24.65
2	University heritage or tie	116	0.38	14	0.82
3	Failed startup	243	0.8	15	0.88
4	Corporate heritage	480	1.58	25	1.46
5	Individual-inventor-started company	5217	17.13	244	13.11
6	University/Government/Non-profit	422	1.39	46	2.69
7	Startup, pre-product	29	0.1	3	0.18
8	Product company	12251	40.24	918	53.75
9	Individual	1772	5.82	137	8.02
10	Undetermined	5	0.02		
11	Industry consortium	25	0.08	1	0.06
12	IP subsidiary of product company	439	1.44	48	2.81
13	Corporate-inventor-started company	118	0.39	10	0.59

Percentage of cases and appeals by patent assertor case type for patent infringement cases filed 2011-2016



District court data source:
Stanford NPE Litigation Dataset

Which party files the appeals?

Asserter Category	Appeal filed by accused infringer	Appeal filed by patent asserter	Total	Percentage of appeals that were filed by accused infringer
1. Acquired patents	32	255	287	11.1%
4. Corporate heritage	2	19	21	9.5%
5. Individual-inventor-started company	15	147	162	9.3%
6. University/Government/Non-profit	11	23	34	32.4%
8. Product company	173	407	580	29.8%
9. Individual	10	67	77	13.0%
12. IP subsidiary of product company	9	22	31	29.0%

2. Outcomes of Appeals

2. Outcomes of Appeals
 - a. Outcomes by origin

Table 11: Federal Circuit Outcomes by Origin

	Total affirmed, reversed or vacated	Percent Affirmed	Percent Affirmed in part	Percent Reversed or vacated
ded	168	72%	12%	16%
cand	93	73%	13%	14%
cacd	87	76%	14%	10%
txed	84	65%	14%	20%
nysd	47	72%	11%	17%
njd	34	71%	15%	15%
ilnd	32	69%	9%	22%
mad	29	62%	14%	24%
vaed	28	79%	4%	18%
flsd	24	63%	17%	21%
Other	297	72%	14%	13%
Total	923	71%	13%	15%

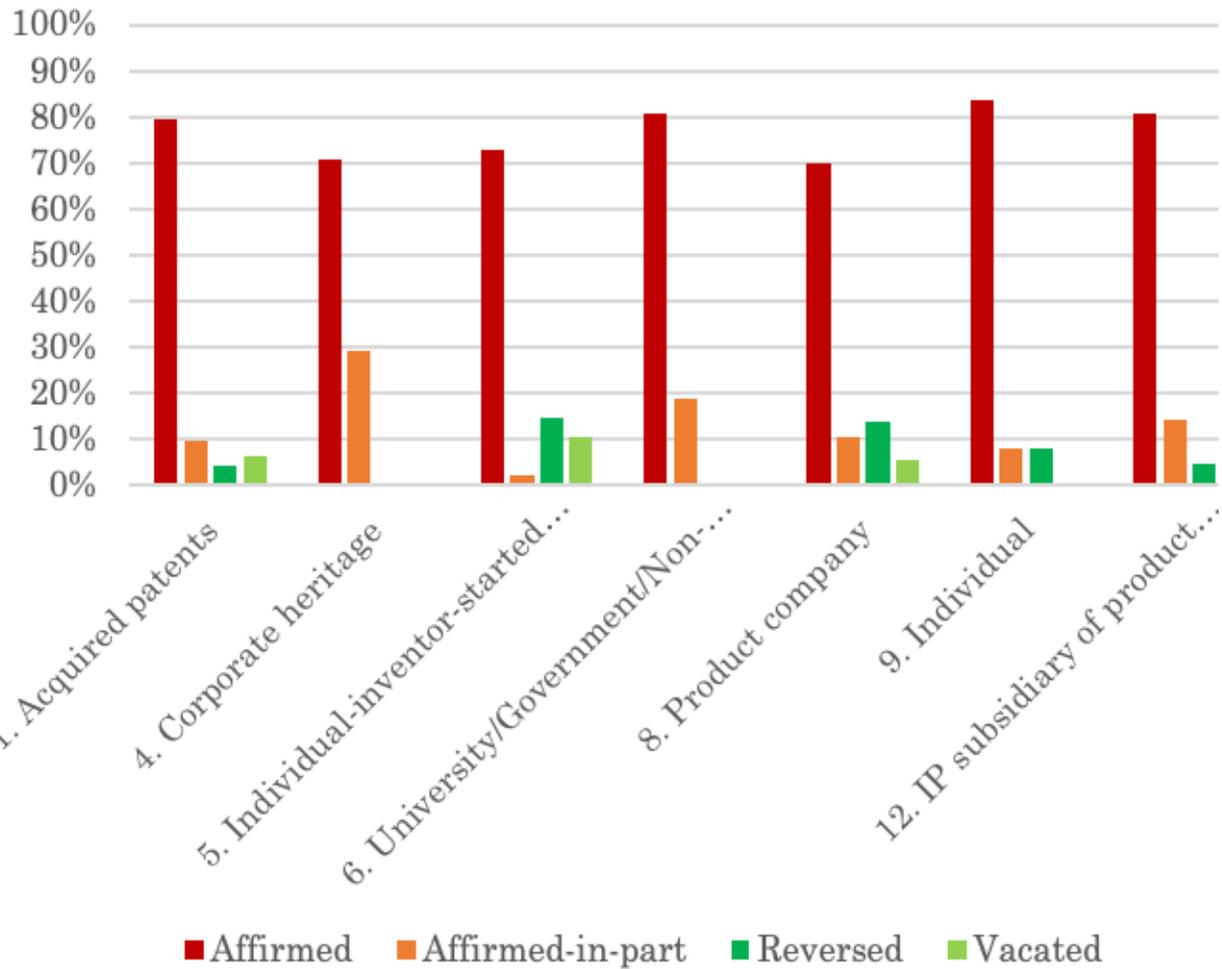
District court data source: USPTO Patent Litigation Dataset

2. Outcomes of Appeals

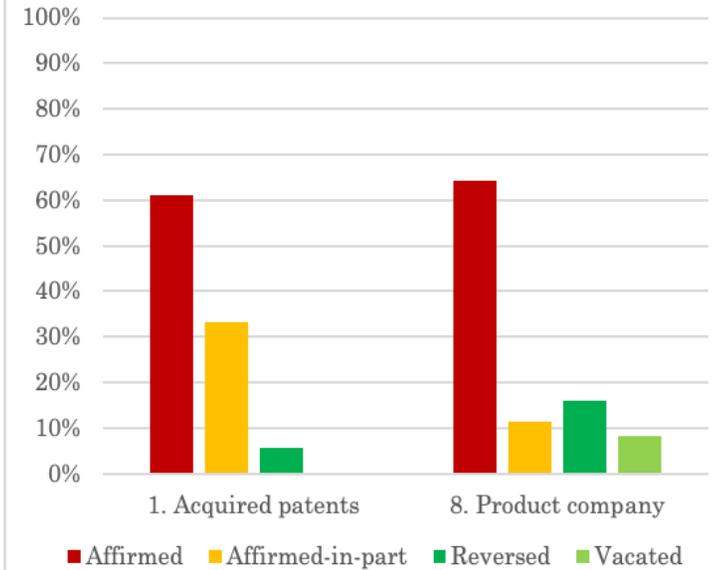
a. Outcomes by origin

b. Outcomes by appellant type

Appellant: Patent Asserter

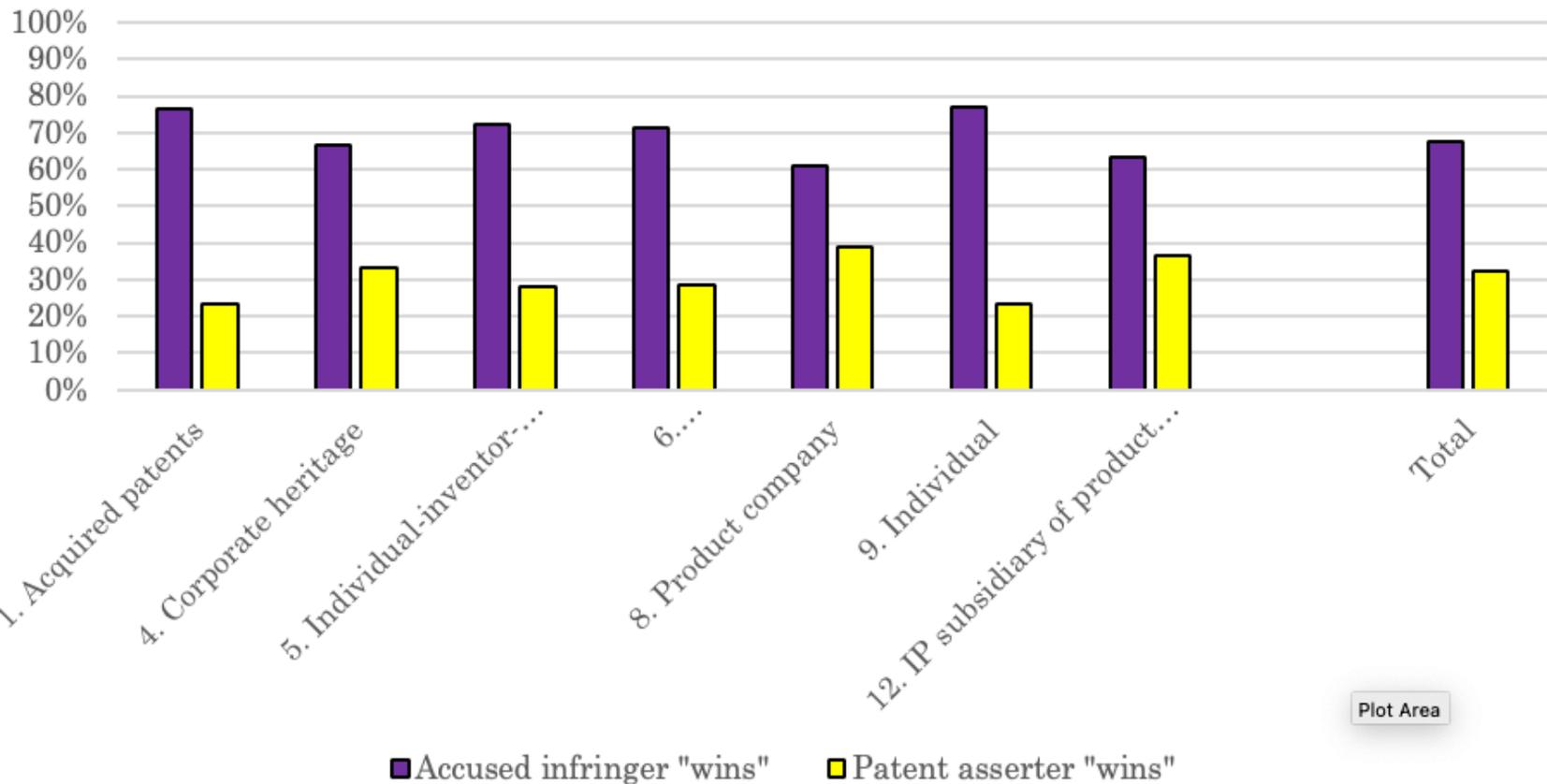


Appellant: Accused infringer



Reminder: an affirmance means that the appellant does not win!

Accused infringer and patent assertor win rates in appeals at the Federal Circuit 2011-2021 by patent assertor type



Want to do your own study on district courts plus appeals?

Both the appeal datasets and STATA code will be available on the CAFC Dataset Project Dataverse next week.

Next Stage For the Federal Circuit Dataset Project

Merge the FreeLawProject data set, especially the Malamed Public.Resource.Org collection, with the Compendium

The FLP data set contains extracted text as well as a large set of documents from 1982-2005.

Challenges:

- Appeal Docket data in FLP dataset is very incomplete.
- Many duplicates for the period 2004-2008.
- Minimal metadata in FLP set, necessitating human-coding.

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